

# SHORT-FORM CATALOG



2003



## MAGNETIC COMPONENTS



**Pulse**  
A TECHNITROL COMPANY

### About Pulse, Featured Products .....ii-1

#### LAN Products

Filtered Connectors with Integrated Magnetics .....	2-3
Ethernet Selection Guide .....	4-5
Gigabit IC Cross Reference .....	6
10/100BASE-TX IC Cross Reference .....	7-11
10BASE-T IC Cross Reference .....	12-13
ATM IC Cross Reference .....	14

#### Common Mode Chokes

LAN & Telecom Applications .....	14
----------------------------------	----

#### Broadband Access: xDSL & HPN®

ADSL Products .....	15-16
HDSL, HDSL2/G.SHDSL Transformers .....	16
Common Mode Chokes for ADSL/VDSL .....	17
VDSL Products .....	17
Home Networking Products .....	17

#### Excelsus® DSL Filters and Splitters

North, Central and South America .....	18
Europe, Middle East and Asia Pacific .....	19

#### Telecommunications Products

Transformers, Transformer/Choke Interface Modules, Transformer Modules .....	20-23
ISDN U-Interface, Echelon® & Digital Audio, DDS/Switched 56, SONET/SDH IC Cross Reference .....	24
ISDN S-Interface IC Cross Reference .....	24-25
T3/DS3/E3/STS-1 IC Cross Reference .....	25
T1/E1 IC Cross Reference .....	26-27

#### Broadband: RF & Cable

RF, HFC and Cable Modem Applications, Fibre Channel (SAN), IEEE 1394 .....	28
--	----

#### RF Chip Inductors

Ultra Small, Ultra Low Profile .....	29
Industry Standard Performance .....	30-31
Ferrite Core .....	31-32
Alternative Inductance & Q vs. Frequency, High Side Metallization .....	32

#### Military/Aerospace Products

High Speed Data Bus .....	33
MIL-STD 1553 (QPL, Non-QPL, COTS) Series .....	34

#### Power Products

Power Inductors .....	35-39
Common Mode Inductors .....	39
Gate Drive Transformers .....	39
Power Transformers .....	40
Current Sense Magnetics .....	40

#### Product Index

Part Number, Data Sheet, Page .....	41-45
-------------------------------------	-------

**Web** (<http://www.pulseeng.com>) .....Back Cover

**Worldwide Offices** .....Back Cover

# ABOUT PULSE



Pulse is one of the largest magnetic component design and manufacturing companies in the world. With over 19,000 employees worldwide and an extensive line of state-of-the-art magnetic solutions, Pulse has become the world's leading supplier of magnetic components to OEMs and Contract

Manufacturers in data networking, connectivity, digital telecommunications including wireless communications, broadband/Internet, cable modems and most forms of power conversion. In addition, Pulse designs and manufactures end-user products such as DSL filters and splitters (Excelsus® brand products), as well as components used in consumer products such as personal computers, cable modems, TVs, DVDs, PDAs, digital cameras, and set-top boxes.

Engineering design centers and manufacturing facilities in North America, Europe and Asia supply product to a broad international customer base. Sales and service operations in the United States, Canada, United Kingdom, France, Italy, Singapore, Hong Kong and Taiwan, as well as authorized distributors and representatives worldwide, support Pulse customers around the globe.

The company offers a full line of magnetic components and modules for use in Internet/broadband access, VoIP, DSL and T1 telecommunications, Ethernet data networking up to 1 Gigabit, AC/DC, DC/DC, and UPS power conversion, and communication and power conversion for military/aerospace applications. This extensive catalog of standard products is immediately available through distributors worldwide.

Engineering design centers around the world provide custom designs for applications not traditionally available in the catalog product lines. Pulse has also recently introduced Build-To-Print and Contract Manufacturing services for power magnetics.

Pulse has a wide range of capabilities to support customers. Real-time programs track current product development, vendor delivery and production status. They also schedule available delivery dates and support product delivery programs such as vendor-managed inventory, consignment and EDI ordering.

Pulse is proactive in developing industry standard products to ensure that its customers receive high-performance, high-quality, and high-reliability products. Pulse is a member of and actively participates in IEEE, ANSI, T1/E1 and the DSL Forum. For example, Pulse is a team member of the standards committee developing DSL products that allow broadband connectivity via household telephone lines. Ongoing research and development at Pulse has resulted in numerous product patents and the development of several unique manufacturing processes.

Pulse works closely with the major semiconductor manufacturers (that provide the ICs controlling computer networks, DSL and T1 telecommunications and power conversion electronics), developing standard magnetic components that exactly match the magnetic requirements of the IC. These semiconductor companies recommend Pulse magnetics on their datasheets. Committed to delivering high-performance products, advanced technologies and world-class quality, Pulse supports the electronics industry and end-user with products and services that are competitively priced and easily available worldwide.

# FEATURED PRODUCTS

## Copperhead Transformers and Transceivers Support High Data Rates for Military and Aerospace Applications



New 1.250 Gbps and a 1.485 Gbps Copperhead™ transformers for point-to-point coupling and Copperhead transceiver modules for buffered short and long-haul applications, ruggedized to meet military standards and are used in a variety of satellites, UAVs, tactical ground communications systems and military aircraft. Applications include high-speed video transmission, Fibre Channel over copper, Gigabit Ethernet, and HDTV signal transmission. Used alone, the Copperhead transformers, models T-330SCT, T-1062SCT, T-1250SCT and T-1485SCT protect against static charges that may develop on cabling and prevent ground loop currents from being transferred between stations. They are also designed to provide CMR within the transmission band and thus reduce EMI. The wide bandwidth of the devices minimizes data-dependent jitter by providing fast signal rise times and low-end bandwidth (also minimizing baseline wander). The dual package allows connection of both TX and RX channels.

The Copperhead LIMs are used in both short- and long-haul applications, providing buffered data transmission and amplification with 1100 mV output. The transceivers also eliminate DC components in the signal and provide common mode signal rejection. Models TM133 through TM1062 are designed to deliver Fibre Channel and IEEE 1394B Firewire data transmission over shielded twisted pair, twinax, mini coax and video coaxial cable. Model TM1250 is designed for Gigabit Ethernet applications, typically over twinax or coaxial cable, and model TM1485 is used for video transmission compliant to the SMPTE standard over twinax or coaxial cable. These components are compliant with ANSI X3T11, Fibre Channel, FC-PH-3 for quarter-speed and full-speed applications and designed to withstand infrared and vapor-phase soldering. They are also pick-and-place compatible. More details are on the Mil-Aero web site at <http://www.pulsespecialty.com/Products/fibrechan.htm> and page 33.



## Low-Insertion-Loss RF Splitter/Combiner for CATV Network Equipment

The new RF splitter/combiner, model C4006, is designed for cable television (CATV) products and distribution equipment. The module provides low signal loss across a 5 MHz to 1,000 MHz bandwidth while maintaining high port-to-port signal isolation. The low-profile design .160" max has an industry-standard footprint of .259" x .250". Performance features provide design engineers with excellent signal integrity for the growing sophistication of HFC network equipment and home cable entertainment and video systems. Applications include set-top boxes, cable network amplifiers and nodes, cable modems, Internet appliances and cable telephony. This component is used to divide one RF signal into two matched outputs. Applications include CATV signal distribution to multiple subscribers in the HFC network, as well as signal division within a set-top box to multiple tuners. The splitter/combiner can also combine two signals and join them as a single output.

The RF splitter/combiner offers an operating bandwidth of 5 MHz to 1,000 MHz. Typical insertion loss is less than 0.7 dB from 5-870 MHz and less than 1.0 dB up to 1000 MHz. The splitter/combiner has high isolation, excellent return loss and a 235°C reflow temperature rating for automated manufacturing processes. It is compatible with pick-and-place manufacturing equipment. The C4006 is available in trays or tape-and-reel packaging, 2200 per reel. Details are available on data sheet C223 on the Pulse web site and also on catalog page 28.

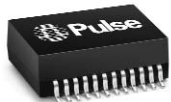


## New 10/100BASE-TX Transformer for Fast Ethernet to Gigabit Ethernet Interchangeable Designs

This 10/100BASE-TX transformer for Fast Ethernet designs, model number H1267 is designed to be interchangeable with Pulse's existing Gigabit transformers, model numbers H5004 and H5007, has an interchangeable feature that aids design engineers in developing a single circuit board that supports either Fast Ethernet (10/100BASE-TX) or Gigabit Ethernet (10/1000BASE-T) applications with only minor modifications to the circuit board.

Applications include desktops, laptops, servers, hubs, routers, NICs and switches. This concept provides an initial cost savings over the price of Gigabit Ethernet (10/100/1000BASE-TX) technology when the customer is ready to migrate to Gigabit.

This transformer has the exact pinout as the existing Pulse Gigabit Ethernet design, found on data sheet H500 on the Pulse web site. The packaging and pin-out for both the Fast Ethernet and Gigabit parts is identical. The only difference is the internal magnetics. This design speeds product development, and lowers costs for manufacturing, production development and material, and increases manufacturing yields. More information can be found on data sheet H342 on the Pulse web site and on page 4 in this catalog.



## Excelsus® Z-330 High-Performance DSL Filters

The ANSI T1.421-compliant Z-330 DSL filters provide high-performance filtering for all telephone sets, fax machines, answering machines and other devices

throughout the home, enabling them to operate on the same line being used for high-speed Internet connectivity. The filters provide one port for the phone signal and a convenience port for the DSL modem. The Z-BLOCKER® model Z-330TJA can be used in-line for items

such as desk phones, fax machines and modems. Or with wall-mounted phones, use the Z-330CWA model, which combines the Z-330TJA with a patent-pending wall-mount adapter. By using these unique filters, the service provider's DSL self-installation kit becomes more versatile and consumer friendly.

Under the Excelsus brand name, Pulse markets high-quality DSL filters, splitters and accessories for broadband Internet access over conventional telephone lines. Excelsus offers a wide selection of economical filters for line configurations in many countries, all with easy, do-it-yourself installation. See catalog pages 18 and 19 for more information or visit [www.excelsus-tech.com](http://www.excelsus-tech.com) on the web.



## VDSL Filter Module Replaces up to 20 Individual Discrete Components

Twenty individual discrete components can now be replaced with just one Pulse VDSL module, minimizing component footprint, freeing up board space and reducing cost. The multi-functioning modules (BX4037, BX4038, BX4039 and BX4040 for use with VDSL chipsets) include a high-pass filter, a hybrid transformer, a transmit and receive separation filter and a common mode choke. The modules meet IEC950 supplementary insulation requirements with the most compact footprint in the industry. Each module's SMT package is compatible with all contemporary pick-and-place manufacturing processes.

Line return loss between 4.1 MHz and 7.9 MHz is 12 dB for the modules. The isolation voltage is rated at 1500 Vrms. Line impedance is rated at 120 Ω, transmit impedance at 40 Ω and receive impedance at 270 Ω. An extended operating temperature range (-40°C to +85°C) ensures product stability with minimum drift. Model numbers BX4037 and BX4038 with four ports are available in quantities of 25 units per tray. Model numbers BX4039 and BX4040, single ports, are available in quantities of 30 units per tube or 220 units per tape and reel. BX4037 and BX4038 are on data sheet B809 and BX4039 and BX4040 on data sheet B819. Also see page 17 in this catalog.



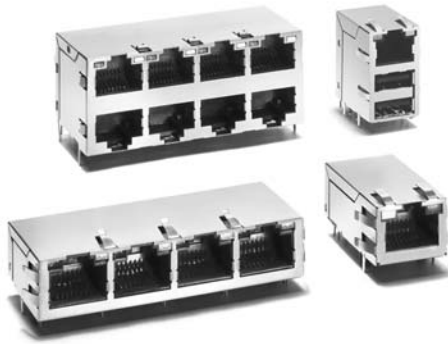
## 140 W SMT Planar Power Transformer for Telecom, Datacom and Industrial Applications

New 100 W to 140 W SMT planar transformers for high-density isolated DC-to-DC modules and discrete power supplies are designed to meet either operational or basic insulation, 1500 VDC isolation and are optimized for frequencies between 200-500 kHz. They feature low resistance windings (<0.5 mΩ), excellent AC resistance performance and extremely low leakage inductance (<0.4 μH).

The transformers in this series are designed for use in active-clamp, forward-converter topology converters used in telecom, datacom and industrial power applications. The transformers operate from a wide-range telecom input voltage of 36 V to 75 V, providing a single high-power regulated output of either 3.3 V/30 A (PA0369 and PA0168), 5 V/20A (PA0491) or 12 V/11.6 A (PA0423). Other versions are available for full-bridge, half-bridge and push-pull topologies. Various turns ratios and power ratings are available for the series. An extended operating temperature range (-40°C to +125°C) ensures product stability, with minimum drift throughout the entire range. The new series is available in trays and tape-and-reel packaging. See page 40 in this catalog.



# LAN PRODUCTS/FILTERED CONNECTORS



Pulse offers a broad selection of filtered connectors. Each PulseJack™ platform is designed to house a range of magnetic configurations and other internal components (common mode termination) with four 75 Ω resistors and HV Cap, chip-side pin outs, shield options, USB ports and LED options.

- Meets or exceeds IEEE 802.3 and ANSI X3.263
- 1500 Vrms isolation
- Self-contained termination saves PCB space
- Patented InterLock Base construction for high reliability

For the readers convenience and to locate multiple platforms easily, view the IC Cross References for Ethernet starting on page 6.

## PULSEJACK™

### Single Port Connectors

Platform	Pulse Part Number	Configuration <sup>2</sup>		Turns Ratio <sup>4</sup>		Other Components <sup>5</sup>	Shield EMI Tabs <sup>6</sup>	Auto MDIX	LEDs <sup>7</sup>	Package <sup>8</sup>	Data Sheet
		TX	RX	TX	RX					L/W/H (in.)	
<b>10/100BASE-TX, SMT</b>											
<b>JV Series: 1X1, Tab DOWN, no LEDs, 6-pin<sup>1</sup></b>											
Single	JV006I21	T, C	T, C	1CT:1	1CT:1	None	Yes	Yes	No LEDs	.950 / .600 / .507	J409
Single	JV011I21	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	.950 / .600 / .507	J409
Single	JV026I21	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	No LEDs	.950 / .600 / .507	J409
<b>J3 Series: 1X1, Tab UP, with LEDs, 8-pin<sup>1</sup></b>											
Single	J3006G21D	T, C	T, C	1CT:1	1CT:1	None	Yes	Yes	Green & Yellow	1.000 / .640 / .532	J409
Single	J3011G21D	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Yellow	1.000 / .640 / .532	J409
Single	J3018G21K	T, C	T, C	1CT:1.141	1CT:1	CMT	Yes	Yes	Green & Green	1.000 / .640 / .532	J409
Single	J3026G21D	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Green & Yellow	1.000 / .640 / .532	J409
<b>10/100BASE-TX, THT</b>											
<b>J0 Series: 1X1, Tab DOWN, with/without LEDs, 8-pin<sup>1</sup></b>											
Single	J0006D21	T, C	T, C	1CT:1	1CT:1	None	Yes	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0006D21B	T, C	T, C	1CT:1	1CT:1	None	Yes	Yes	Green & Yellow	.850 / .630 / .535	J403
Single	J0011D01	T, C	T, C	1CT:1	1CT:1	CMT	None	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0011D21	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0011D21B	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Yellow	.850 / .630 / .535	J403
Single	J0011D21E	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Green	.850 / .630 / .535	J403
Single	J0018D21	T, C	T, C	1CT:1.414	1CT:1	CMT	Yes	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0018D21E	T, C	T, C	1CT:1.414	1CT:1	CMT	Yes	Yes	Green & Green	.850 / .630 / .535	J403
Single	J0024D21	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0024D21B	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Yellow	.850 / .630 / .535	J403
Single	J0026D01	T, C, S	C, T	1CT:1	1CT:1	CMT	None	No	No LEDs	.850 / .630 / .535	J403
Single	J0026D01B	T, C, S	C, T	1CT:1	1CT:1	CMT	None	No	Green & Yellow	.850 / .630 / .535	J403
Single	J0026D01E	T, C, S	C, T	1CT:1	1CT:1	CMT	None	No	Green & Green	.850 / .630 / .535	J403
Single	J0026D01F	T, C, S	C, T	1CT:1	1CT:1	CMT	None	No	Green/R & Yellow/R	.850 / .630 / .535	J403
Single	J0026D21	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	No LEDs	.850 / .630 / .535	J403
Single	J0026D21B	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Green & Yellow	.850 / .630 / .535	J403
Single	J0026D21E	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Green & Green	.850 / .630 / .535	J403
Single	J0026D21F	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Green & Yellow	.850 / .630 / .535	J403
Single	J0026D21G	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Yellow/Green & Yellow	.850 / .630 / .535	J403
Single	J0033D21	T, C	C, T	1CT:1	1CT:1	CMT	Yes	No	No LEDs	.850 / .630 / .535	J403
Single	J0035D21B	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Green & Yellow	.850 / .630 / .535	J403
Single	J0048D21M	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Green	.850 / .630 / .535	J403
Single	J0073D01B	T, C	C, T	1CT:1	1CT:1	CMT	None	No	Green & Yellow	.850 / .630 / .535	J403
<b>J1 Series: 1X1, Tab UP, with/without LEDs, 8-pin<sup>1</sup></b>											
Single	J1006F01P	T, C	T, C	1CT:1	1CT:1	None	None	Yes	Green & Yellow	1.000 / .640 / .535	J402
Single	J1011F01P	T, C	T, C	1CT:1	1CT:1	CMT	None	Yes	Green & Yellow	1.000 / .640 / .535	J402
Single	J1012F01C	T, C	T, C	1CT:1	1CT:1	CMT	None	Yes	Yellow & Green	1.000 / .640 / .535	J402
Single	J1012F21C	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Yellow & Green	1.000 / .640 / .535	J402
Single	J1012F21K	T, C	C, T	1CT:1	1CT:1	CMT	Yes	Yes	Green & Green	1.000 / .640 / .535	J402
Single	J1012F21L	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Yellow R & Green R	1.000 / .640 / .535	J402
Single	J1012F21R	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green R & Yellow R	1.000 / .640 / .535	J402
Single	J1026F01	T, C, S	C, T	1CT:1	1CT:1	CMT	None	No	No LEDs	1.000 / .640 / .535	J402
Single	J1026F01P	T, C, S	C, T	1CT:1	1CT:1	CMT	None	No	Green & Yellow	1.000 / .640 / .535	J402
Single	J1026F21C	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Yellow & Green	1.000 / .640 / .535	J402
<b>JP Series: 1X1, Tab UP, with LEDs, 6-pin<sup>1</sup></b>											
Single	JP006821U	T, C	T, C	1CT:1	1CT:1	None	Yes	Yes	Bicolor Grn/Orange & Yell	1.000 / .640 / .535	J402
Single	JP011821U	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Bicolor Grn/Orange & Yell	1.000 / .640 / .535	J402
Single	JP026821U	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Bicolor Grn/Orange & Yell	1.000 / .640 / .535	J402
<b>Gigabit (10/100/1000), THT</b>											
<b>JK Series: 1X1, Tab UP, with LEDs, 12-pin<sup>1</sup></b>											

For detailed information about this Series, contact Pulse at 1-858-674-8100 and ask for LAN Applications Engineering or send an e-mail to: [prodinfo\\_lan@pulseeng.com](mailto:prodinfo_lan@pulseeng.com)

NOTE: See footnotes next page

(continued on next page)

## PULSEJACK™ (continued)

### Multiport 1 by N Connectors

Platform	Pulse Part Number	Configuration <sup>2</sup>		Turns Ratio <sup>4</sup>		Other Components <sup>5</sup>	Shield EMI Tabs <sup>6</sup>	Auto MDIX	LEDs <sup>7</sup>	Package <sup>8</sup>	Data Sheet
		TX	RX	TX	RX					L/W/H (in.)	
<b>10/100BASE-TX, THT</b>											
<b>J8 Series: 1XN, Tab DOWN, with LEDs, 8-pin<sup>1,9</sup></b>											
1x2	J8064D628A	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Yellow	1.230 / .841 / .536	J404
1x4	J8064D648A	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Yellow	2.330 / .841 / .536	J404
1x4	J8064D649P	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Green	2.330 / .841 / .536	J404
1x6	J8064D668A	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Yellow	3.430 / .841 / .536	J404
1x8	J8064D688A	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Green & Yellow	4.530 / .841 / .536	J404
<b>J8 Series: 1XN, Tab DOWN, no LEDs, 8-pin<sup>1,9</sup></b>											
1x2	J8064E62	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	1.230 / .841 / .536	J404
1x4	J8064E64	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	2.330 / .841 / .536	J404
1x6	J8064E66	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	3.430 / .841 / .536	J404
1x8	J8064E68	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	4.530 / .841 / .536	J404

### Gigabit (10/100/1000), THT

#### JG Series: 1XN, Tab UP, with LEDs, 10-pin<sup>1,9</sup>

For detailed information about this Series, contact Pulse at 1-858-674-8100 and ask for LAN Applications Engineering or send an e-mail to: [prodinfo\\_lan@pulseeng.com](mailto:prodinfo_lan@pulseeng.com)

### Multiport 2 by N Connectors

#### 10/100BASE-TX, THT

#### J2 Series: 2XN, 8-pin<sup>9</sup>

2x4	J2039H3A	T, C, S	T, C	1CT:1	1CT:1	CMT	Yes	No	No LEDs	2.330 / 1.120 / .991	J401
2x4	J2042H3A	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	2.330 / 1.120 / .991	J401
2x4	J2045H3A	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	2.330 / 1.120 / .991	J401
2x6	J2039H3B	T, C, S	T, C	1CT:1	1CT:1	CMT	Yes	No	No LEDs	3.430 / 1.120 / .991	J401
2x6	J2042H3B	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	3.430 / 1.120 / .991	J401
2x6	J2045H3B	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	3.430 / 1.120 / .991	J401
2x8	J2039H3C	T, C, S	T, C	1CT:1	1CT:1	CMT	Yes	No	No LEDs	4.530 / 1.120 / .991	J401
2x8	J2042H3C	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	4.530 / 1.120 / .991	J401
2x8	J2045H3C	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	No LEDs	4.530 / 1.120 / .991	J401
2x2	J20-0013	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Bicolor Green/ Yellow	2.330 / 1.120 / .991	J401
2x4	J20-0014	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Bicolor Green/ Yellow	2.330 / 1.120 / .991	J401
2x6	J20-0015	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Bicolor Green/ Yellow	3.430 / 1.120 / .991	J401
2x8	J20-0016	T, C	T, C	1CT:1	1CT:1	CMT	Yes	Yes	Bicolor Green/ Yellow	4.530 / 1.120 / .991	J401

### Gigabit (10/100/1000), THT

#### JC Series: 2XN, no LEDs, 10-pin<sup>9</sup>

For detailed information about this Series, contact Pulse at 1-858-674-8100 and ask for LAN Applications Engineering or send an e-mail to: [prodinfo\\_lan@pulseeng.com](mailto:prodinfo_lan@pulseeng.com)

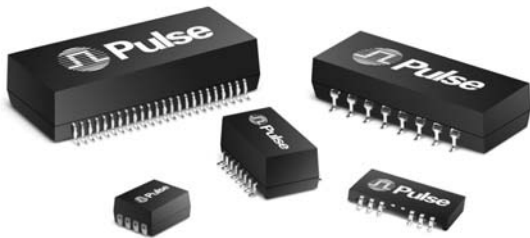
### RJ45/USB Connectors

#### 10/100, THT

#### JU Series: RJ-45/Dual USB, Tab UP, with LEDs, 8-pin<sup>1</sup>

Single	JU054P01R	T, C, S	C, T	1CT:1	1CT:1	CMT	None	No	Green/R & Yellow/R	1.010 / .665 / 1.140	J408
<b>J6 Series: RJ-45/Dual USB, Tab Up, with LEDs, 6-pin<sup>1</sup></b>											
Single	J6026M51U	T, C, S	C, T	1CT:1	1CT:1	CMT	Yes	No	Bicolor Grn/Orange & Yel	1.010 / .665 / 1.140	J408

1. **Tab Down** = thumb lock facing down to PCB, **Tab Up** = thumb lock facing away from PCB.
2. **Magnetics** = **Chip (PHY) to Cable (Media) side**: **R** = Resistor, **T** = Transformer, **C** = Common Mode Choke, **S** = Shunt Inductor.
3. **4-line chokes**.
4. **Turns Ratio** = Chip (PHY) to Cable (Media) side.
5. **CMT (Common Mode Termination)** with HV Cap within the connector; no extra PCB real estate required.
6. **EMI Tabs** = On the outside face of the shield for connecting to a front panel.
7. **LEDs** require external 5 V source and 250 Ω external resistors (R = 250 Ω internal).
8. **Package Mounting**: **THT** = Through Hole, **SMT** = Surface Mount.
9. **NOTE**: For example, 1x4 = 1 row/4 columns or a 2x4 = 2 rows/4 columns.



Pulse offers the most comprehensive line of discrete LAN magnetics modules available to the OEM worldwide. With technological advancements such as patented InterLock Base construction, these discrete components provide high quality at a competitive price. Modules for 10/100/1000BASE-TX (Gigabit), 10/100BASE-TX, 10BASE-T, and ATM applications are optimized for all major LAN transceivers.

All modules provide electrical circuit isolation that meets applicable IEEE and ANSI standards, while maintaining signal integrity needed for the most demanding

applications. 10BASE-T modules have various levels of filtering for use with each referenced IC. 10/100BASE-TX and Gigabit modules provide "tuned" common mode noise attenuation best matched to the transceiver being considered.

Pulse manufactures the broadest selection of packaging options, from through hole (THT) SIL devices to the smallest available surface mount (SMT) solution at .078" (1,98 mm).

## ETHERNET SELECTON GUIDE

### Gigabit Ethernet

Part Number	Turns Ratio	Configuration*	Package		Data Sheet
			Style**	L/W/H (in.)***	
<b>10/100/1000BASE-T, Single Port</b>					
H5004	1CT:1CT	T,C	24-pin SOIC	.695 / .635 / .230	H500
H5007	1CT:1CT	T,C,S	24-pin SOIC	.695 / .635 / .230	H500
H5062	1CT:1CT	T,C,S	24-pin SOIC	.695 / .635 / .230	H600
H5008	1CT:1CT	T,C,S	24-pin SOIC	.547 / .750 / .235	H502
H5009	1CT:1CT	T,C	24-pin SOIC	.547 / .750 / .235	H502
<b>10/100/1000BASE-T, Dual Port</b>					
H5012	1CT:1CT	T,C,S	48-pin <sup>1</sup>	1.095 / .600 / .285	H503
H5014	1CT:1CT	T,C	48-pin <sup>1</sup>	1.095 / .600 / .285	H503
H5020	1CT:1CT	T,C	50-pin <sup>1</sup>	1.095 / .430 / .340	H503

1. .039" (0,99 mm) pitch leads.

Part Number	Turns Ratio	Package		Data Sheet
		Style**	L/W/H (in.)***	
<b>1000BASE-CX</b>				
A6801	1CT:1CT	16-pin SOIC	.500 / .295 / .220	A100
A6802	1:1	16-pin SOIC	.500 / .295 / .220	A100

### Fast Ethernet

Part Number	Turns Ratio	Configuration*			Package		Data Sheet
		TX	TX	RX	Style**	L/W/H (in.)***	
<b>10/100BASE-TX, Single Port</b>							
H0009	1CT:1CT	T, C	C, T	PCMCIA	.560 / .670 / .078	H304	
H0019	1CT:1CT	T, C	C, T	PCMCIA	.500 / .380 / .084	H304	
H0022	1CT:1CT	T, C, S	C, T	PCMCIA	.465 / .450 / .085	H304	
H0025	1CT:1CT	T, C	C, T	PCMCIA	.475 / .450 / .085	H304	
H1012	1CT:1CT	T, C, S	C, T	16-PIN SMT	1.000 / .505 / .235	H303	
H1038	2CT:1CT	T, C	T, C	16-PIN SMT	1.000 / .510 / .230	H315	
H1089	1CT:1CT	T, C	C, T	16-PIN SMT	1.000 / .510 / .230	H303	
H1093	1.4CT:1CT	T, C	T, C	16-PIN SMT	1.000 / .510 / .230	H314	
H1100	2CT:1CT	T, C	T, C	16-PIN SOIC	.500 / .380 / .235	H325	
H1102	1CT:1CT	T, C	T, C	16-PIN SOIC	.500 / .370 / .235	H325	
H1112	1CT:1CT	T, C, S	C, T	12-PIN SMT	.589 / .588 / .197	H326	
H1141	1CT:1CT	C, T, C	C, T, C	16-PIN SMT	.495 / .600 / .230	H328	
H1199	1CT:1CT	C, T	T, C	16-PIN SOIC	.500 / .380 / .235	H325	
H1260	1CT:1CT	T, C	T, C	16-PIN SOIC	.500 / .380 / .235	H325	

\* R = Resistors, F = Filters, T = Transformer, C = Chokes, S = Shunt Inductor  
 \*\* SOIC = 50 mil pitch leads, SMT = 100 mil pitch leads (Surface Mount),  
 TH = Through Hole, DIL = Dual In-Line (Through Hole), SIL = Single In-Line (Through Hole)

### Fast Ethernet (continued)

Part Number	Turns Ratio	Configuration*			Package		Data Sheet
		TX	TX	RX	Style**	L/W/H (in.)***	
<b>10/100BASE-TX, Single Port (continued)</b>							
H1267	1CT:1CT	T, C, S	C, T	24-PIN SMT	.690 / .480 / .225	H342	
HX1148 <sup>1</sup>	1CT:1CT	T, C, S	C, T	16-PIN SMT	1.000 / .525 / .235	H303	
HX1178 <sup>1</sup>	1CT:1CT	T, C, S	T, C	16-PIN SMT	1.000 / .525 / .235	H303	
HX1188 <sup>1</sup>	1CT:1CT	T, C	T, C	16-PIN SOIC	.500 / .380 / .235	H325	
HX1198 <sup>1</sup>	1CT:1CT	C, T	C, T	16-PIN SOIC	.500 / .380 / .235	H325	
ST6118T	1CT:1CT	T, C, S	C, T	16-PIN SMT	.998 / .515 / .242	ST6118T	
ST6122T	1.4CT:1CT	T, C	T, C	16-PIN SMT	.998 / .515 / .242	ST6122T	
ST6129T	2CT:1CT	T, C	T, C	16-PIN SMT	.998 / .515 / .242	ST6129T	
<b>10/100BASE-TX, Dual Port</b>							
H1028	1CT:1CT	T, C, S	C, T	40-PIN SOIC	1.125 / .640 / .230	H322	
H1174	1CT:1CT	T, C	C, T	24-PIN <sup>2</sup>	.515 / .590 / .145	H322	
H1200	1CT:1CT	T, C	T, C	40-PIN SOIC	1.125 / .640 / .230	H322	
H1270	1CT:1CT	T, C	C, T	24-PIN <sup>2</sup>	.515 / .590 / .145	H600	
<b>10/100BASE-TX, Quad Port</b>							
H1036L	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H316	
H1044	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H316	
H1053	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H316	
H1060	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H316	
H1062	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H316	
H1069	2CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H321	
H1071	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H316	
H1074	2CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H321	
H1092	1.4CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H313	
H1140	1CT:1CT	C, T, C	C, T, C	40-PIN SOIC	1.125 / .640 / .280	H328	
H1164	1CT:1CT	T, C	T, C	40-PIN SOIC	1.125 / .640 / .230	H328	
H1259	1CT:1CT	T, C	T, C	40-PIN SOIC	1.125 / .640 / .230	H600	
H1266	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .230	H600	
HX1203 <sup>1</sup>	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .280	H316	
HX1240 <sup>1</sup>	1CT:1CT	C, T, C	C, T, C	40-PIN SOIC	1.125 / .640 / .280	H328	
HX1234 <sup>1</sup>	1CT:1CT	T, C	T, C	40-PIN SOIC	1.125 / .640 / .280	H328	
HX1236 <sup>1</sup>	1CT:1CT	T, C	C, T	40-PIN SOIC	1.125 / .640 / .280	H316	

1. Suitable for industrial temperature applications, -40°C to +85°C

2. .039" (0,99 mm) pitch leads

\*\*\* L/W/H are MAX. dimensions. Width is measured on surface mount parts pin-tip to pin-tip (height includes wash area).

## ETHERNET SELECTION GUIDE (continued)

### 10Base-T

Part Number	Turns Ratio	Configuration*		Package		Data Sheet
		TX	RX	Style**	L/W/H (in.)***	
<b>Filter Modules</b>						
E2003	1CT:1CT	R,F,T,C	R,F,T,C	16-PIN SMT	1.000 / .500 / .230	E115
PE-68026	1CT:1CT	F,T,C	F,T,C	16-PIN SMT	.930 / .510 / .230	E115
FL1012	1CT:1CT	F,T,C	F,T	16-PIN TH	1.010 / .400 / .338	FL1012
E2009	1:1.41CT	F,T,C	F,T	16-PIN SMT	1.000 / .500 / .230	E115
PE-68017S	1CT:1CT	F,T,C	F,T	10-PIN SIL	1.000 / .210 / .450	E104
<b>Transformer/Choke Modules, Single Port</b>						
ST7010T	1CT:1.4CT	T,C	T,C	16-PIN SOIC	.457 / .375 / .233	ST7010T
ST4202T	1CT:2CT	T,C	T,C	16-PIN SOIC	.447 / .360 / .223	ST4202T
<b>Transformer/Choke Modules, Quad Port</b>						
E5002	1CT:2CT	T,C	T,C	40-PIN SOIC	1.125 / .640 / .280	EC101
PE-68049	1CT:1CT	T,C	T,C	4 0-PIN SOIC	1.125 / .640 / .280	EC101
PE-68062L	1CT:1.4CT	T,C	T,C	40-PIN SOIC	1.125 / .640 / .280	EC101

### VoIP Transformer Modules

Part Number	Turns Ratio	Configuration*		Package		Data Sheet
		TX	RX	Style**	L/W/H (in.)***	
H2005A	1CT:1CT	T,C,S	C,T	24-pin SOIC	.515 / .745 / .285	H327
H2006A	1CT:1CT	T,C	T,C	24-pin SOIC	.542 / .595 / .250	H327
H2008	1CT:1CT	T,C,S	T	24-pin SOIC	.542 / .595 / .250	H327
H2009	1CT:1CT	T,C,S	T,C,S	24-pin SOIC	.523 / .737 / .246	H327
H2014	1CT:1CT	T,C,S	C,T	48-pin <sup>1</sup>	1.095 / .600 / .285	H327
H2019	1CT:1CT	T,C	T,C	16-pin SOIC	.500 / .370 / .235	H327

1. .039" (0,99 mm) pitch leads

### AUI Ethernet Transformer

Part Number	Turns Ratio	Package		Data Sheet
		Style**	L/W/H (in.)***	
PE-65728	1:1:1	16-pin SOIC	.500 / .370 / .200	EC100

### LAN Common Mode Chokes

Part Number	Number of Lines	OCL	Package		Data Sheet
			Style**	L/W/H (in.)***	
23Z104SM	4	68	8-pin SOIC	.230 / .360 / .215	G002
23Z104	4	68	8-pin DIL	.450 / .340 / .250	G002
PE-67540	4	100	8-pin SMT	.475 / .600 / .340	G002
PE-67539	4	140	8-pin SMT	.500 / .500 / .375	G002

\* R = Resistors, F = Filters, T = Transformer, C = Chokes, S = Shunt Inductor

\*\* SOIC = 50 mil pitch leads, SMT = 100 mil pitch leads (Surface Mount), TH = Through Hole, DIL = Dual In-Line (Through Hole), SIL = Single In-Line (Through Hole)

\*\*\* L/W/H are MAX. dimensions. Width is measured on surface mount parts pin-tip to pin-tip (height includes wash area).



# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: GIGABIT

DISCRETE COMPONENTS										USB PLATFORMS <sup>B</sup>				
IC Manufacturer	IC		Turns Ratio <sup>A</sup>	Single Part Number	Dual Part Number	1X1 Part Number	1XN Part Number	2XN Part Number	RJ45/USB <sup>5</sup> Part Number	Data Sheet				
	Part Number	Ports									Note	TX	Data Sheet	Data Sheet
Broadcom (includes ALTIMA)	AC1001, AC1002	1	MAC/PHY	H5007	H5003	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
	AC1011, AC1012	1	MAC/PHY	H5062	H5020 <sup>1</sup> H503									
	BCM5400, BCM5401	1	PHY											
	BCM5411, BCM5421/S	1	PHY											
	BCM5701	1	MAC/PHY					JG Series 3,C						
Cicada Semiconductor	BCM5402	2	PHY	H5012	H503		JG Series 3,C	JC Series 4,C						
	BCM5404, 5414, 5424	4	PHY	H5020 <sup>1</sup> H503										
	BCM5434, 5464, 5464S	4	PHY											
	CIS8201	1	PHY	H5012	H503	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
Intel	CIS8204	4	PHY	H5007	H5003									
	LXT1000	1	MAC/PHY	H5007	H503	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
	82540, 82544	1	PHY	H5062	H503									
	82546, 82547	1	PHY											
LSI Logic	LXT1040	4	MAC/PHY				JG Series 3,C	JC Series 4,C						
	L80600	1	1:1	H5007	H503	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
	L80601	1	1:1	H5062	H503									
Marvell Semiconductor	88E1000, 88E1000S,	1	MAC/PHY	H5007	H503	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
	88E1010/S, 88E1111	1	MAC/PHY	H5062	H503									
	88E1011, 88E1011S	1	MAC/PHY											
	88E1020, 88E1020S,	2	MAC/PHY											
	88E1040, 88E1040S,	4	MAC/PHY											
Kendin	88E1041, 88E1041S,	4	MAC/PHY	H5012	H503	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
	88E1042, 88E1042S	4	MAC/PHY	H5062	H503									
	88E1180	8	MAC/PHY											
Mysticom	KS9020	1	1:1	H5007	H503	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
	MY1001	1	1:1	H5062	H503									
National Semiconductor	DP83820	1	NIC	H5007	H503	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
	DP83861	1	PHY	H5062	H503									
	DP83865	1	PHY											
Realtek	RLT8169	1	NIC	H5007	H503	JK Series 2,C	JG Series 3,C		JW0A2P019D C					
				H5062	H503									

1. Compact foot print dual magnetic cross reference  
 2. Single port THT tab-up connector cross reference  
 3. Multiport 1byN THT tab-up connector cross reference  
 4. Multiport THT 2byN connector cross reference  
 5. RJ45/USB single port THT tab-up connector cross reference  
 A. TX turns ratio, unless otherwise specified the, RX path turns ratio is 1:1  
 B. One part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.  
 C. For detailed information about this Series, call Pulse, LAN Applications at 858-674-8100 or e-mail [prodinfo\\_jan@pulseeng.com](mailto:prodinfo_jan@pulseeng.com).

SMT - Surface Mount Package THT - Through Hole Package



# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: 10/100BASE-TX

### DISCRETE COMPONENTS

### RJ45 PLATFORMS B

IC Manufacturer	IC		Turns Ratio <sup>A</sup>	Single Part Number	Single Data Sheet	Dual Part Number	Dual Data Sheet	Quad Part Number	Quad Data Sheet	1X1 Part Number	1X1 Data Sheet	1XN Part Number	1XN Data Sheet	2XN Part Number	2XN Data Sheet	RJ45/USB <sup>7</sup> Part Number	RJ45/USB <sup>7</sup> Data Sheet	
	Part Number	Ports																Note
ADMtek	ADM8511 / 8513 / 9511	1	PHY	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	JU054P01R <sup>D</sup>	J408	
	ADM9513, AN983B	1	PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006D21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	J6026M51U <sup>D</sup>	J408	
	AN985B(L)	1	AutoMDX	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401			
	ADM6305,	5	PHY	H2019 <sup>2</sup>	H327			H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404					
	ADM6308 / 6326 / 6509	8	PHY															
	ADM6909	8	PHY															
	AM79C874 / 875	1	PHY	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	JU054P01R <sup>D</sup>	J408	
	AM79C972, / 973 / 975	1	PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006D21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	J6026M51U <sup>D</sup>	J408	
	AM79C976 / 977	1	PHY	HX1188 <sup>1</sup>	H325			HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401			
		1	PHY	H2019 <sup>2</sup>	H327			H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404					
AM79C874	1	PHY	PE-69012 <sup>E</sup>	H304														
	1	PHY	H1081	H314						J0018D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404			JU054P01R <sup>D</sup>	J408	
	1	PHY	J3018G21D <sup>5</sup>	J409												J6026M51U <sup>D</sup>	J408	
Broadcom (Includes Altimia)	AC101,	1	PHY	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	JU054P01R <sup>D</sup>	J408	
	BCM5201 / 5221 / 5222	1	PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006D21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	J6026M51U <sup>D</sup>	J408	
	AC105 / 108	2	PHY	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064E68 <sup>7</sup>	J404	J2045H3C <sup>C</sup>	J401			
	BCM5912	2	PHY	H2019 <sup>2</sup>	H327			H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401			
	BCM1100	2	VoIP/PoE	PE-69012 <sup>E</sup>	H304							J8064D668A <sup>6</sup>	J404					
	AC104	4	PHY									J8064E64 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401			
	BCM5201 / 5203 / 5204	4	PHY									J8064E66 <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401			
	BCM5205 / 5208R / 5214	4	PHY									J8064E68 <sup>7</sup>	J404	J2045H3C <sup>C</sup>	J401			
	AC205 / 206, BCM5315,	5	PHY									J8064D648A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401			
	BCM5216 / 5226,	6	PHY									J8064D668A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401			
AC207 / 208	8	PHY									J8064D688A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401				
BCM5218 / 5228 / 5238	8	PHY									J8064D688A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401				
BCM5317 / 5318	8	PHY									J8064D688A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401				
BCM5308	9	PHY									J8064D688A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401				
Broadmedia (Davicom)	DM9101 / 9131 / 1961	1	PHY	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	JU054P01R <sup>D</sup>	J408	
	DM9161 / 9162	1	PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006D21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	J6026M51U <sup>D</sup>	J408	
	DM9102 / 9102A	1	MAC/PHY	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401			
	DM9000 / 9601	1	MAC/PHY	H2019 <sup>2</sup>	H327			H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401			

1. **Extended** temperature single port discrete magnetic cross reference

2. **PoE / VoIP** single port discrete magnetic cross reference

3. **Single port** THT tab-up/down connector cross reference

4. **Single port** SMT tab-down connector cross reference

5. **Single port** SMT tab-up connector cross reference

6. **Multi-port** 1byN THT tab-down connector cross reference

7. **RJ45/USB** single port THT tab-up connector cross reference

A. **TX** turns ratio, unless otherwise specified, the RX turns ratio is 1:1

B. **One** part is identified in this cross reference. Multiple parts with different

platforms can be found on the referenced data sheet.

C. **Multiport** 2byN THT connector cross reference (A=2X4, B=2X6, C=2X8)

D. **LED colors** (Green/Yellow, Green-Orange/Yellow)

E. **Low profile** (PCMCIA)

(continued on next page)

SMT - Surface Mount Package THT - Through Hole Package

# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: 10/100BASE-TX (continued)

IC Manufacturer	IC		Turns Ratio <sup>A</sup>	Single Part Number	Dual Part Number	Quad Part Number	1X1		1XN		2XN		RJ45/USB <sup>7</sup>
	Part Number	Ports					Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	
Cirrus Logic (Crystal)	CS8952	1	PHY	H1102 H325	H1270 H322		J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
	CS8952T	1	PHY	H1260 H600	H2005A 2 H327		J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
				HX1188 1 H325	H2009 2 H327		JV006I21 4	J409					
				H2019 2 H327			J3006G21D 5	J409					
Fujitsu	84222	1	PHY	H1102 H325	H1270 H322		J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
				H1260 H600	H2005A 2 H327		J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
				HX1188 1 H325	H2009 2 H327		JV006I21 4	J409					
				H2019 2 H327			J3006G21D 5	J409					
ICS	ICS1890 / 1891	1	PHY	H1102 H325	H1270 H322		J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
	ICS1891 / 1893	1	PHY	H1260 H600	H2005A 2 H327		J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
				HX1188 1 H325	H2009 2 H327		JV006I21 4	J409					
				H2019 2 H327			J3006G21D 5	J409					
Infineon	PS821553	2	PoE PHY	PE-69012 E H304	H2006A 2 H327								
	8255 / 2551QM / 551ER	1	MAC/PHY	H1102 H325	H1270 H322	H1164 2	J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
	82562 / 550 / 559 / 559ER	1	MAC/PHY	H1260 H600	H2005A 2 H327	H1259 H600	J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
	SL3RB	1	MAC/PHY	HX1188 1 H325	H2009 2 H327	HX1234 1 H328	JV006I21 4	J409					
Kendin, a MICREL Company	LX1970A / 971 / 972A	1	PHY	H1112 H326	H2019 2 H327		J3006G21D 5	J409					
	LX1973	2	PHY	H2019 2 H327									
	LX1974 / 975	4	PHY	PE-69012 E H304		H1164 2			J8064E64 6	J404	J2045H3A C	J401	
	LX19761 / 762 / 763	6	PHY			H1259 H600			J8064E66 6	J404	J2045H3B C	J401	
Kendin, a MICREL Company	LX19781 / 782 / 784 / 785	8	PHY			HX1234 1 H328			J8064E68 6	J404	J2045H3C C	J401	
						H2017 2			J8064D648A 6	J404			
									J8064D668A 6	J404			
									J8064D688A 6	J404			
Kendin, a MICREL Company	KS8721B / 8737	1	PHY	H1102 H325	H1270 H322		J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
	KS8993	3	MAC/PHY	H1260 H600	H2005A 2 H327		J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
				HX1188 1 H325	H2009 2 H327		JV006I21 4	J409					
				H2019 2 H327			J3006G21D 5	J409					

1. **Extended** temperature single port discrete magnetic cross reference
2. **PoE / VoIP** single port discrete magnetic cross reference
3. **Single port** THT tab-up/down connector cross reference
4. **Single port** SMT tab-down connector cross reference
5. **Single port** SMT tab-up connector cross reference
6. **Multiport** 1byN THT tab-down connector cross reference
7. **RJ45/USB** single port THT tab-up connector cross reference
  - A. TX turns ratio, unless otherwise specified the RX turns ratio is 1:1
  - B. **One** part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.
8. **Multiport** 2byN THT connector cross reference (A=2X4, B=2X6, C=2X8)
  - D. **LED colors** (Green/Yellow, Green-Orange/Yellow)
  - E. **Low profile** (PCMCIA)

# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: 10/100BASE-TX (continued)

IC Manufacturer	IC		Turns Ratio <sup>A</sup>	Single Part Number	Single Data Sheet	Dual Part Number	Dual Data Sheet	Quad Part Number	Quad Data Sheet	1X1 Part Number	1X1 Data Sheet	RJ45 PLATFORMS <sup>B</sup>		USB Combo <sup>7</sup> Part Number	Data Sheet	
	Part Number	Ports										Part Number	Data Sheet			
Kendin, a Mitel Company <i>(continued)</i>	K58995 / 995E	5	MAC/PHY					H1164 <sup>2</sup>	H328			J8064E64 <sup>6</sup>	J2045H3A <sup>C</sup>	J401		
	K58995M / 995X	5	MAC/PHY					H1259	H600			J8064E68 <sup>6</sup>	J2045H3B <sup>C</sup>	J401		
	K58997 / 999	8	MAC/PHY					HX1234 <sup>1</sup>	H328			J8064D648A <sup>6</sup>	J2045H3C <sup>C</sup>	J401		
LSI	L80223, L80225, L80227	1	PHY	H1102	H325	H1270	H322			J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	JU054P01R <sup>D</sup>	J408	
				H1260	H600	H2005A <sup>2</sup>	H327			J1006D21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J6026M51U <sup>D</sup>	J408	
Lucent				HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327			JV006I21 <sup>4</sup>	J409	J8064E64 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	
				H2019 <sup>2</sup>	H327					J3006G21D <sup>5</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	
				PE-69012 <sup>E</sup>	H304							J8064D688A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401	
								H1164 <sup>2</sup>	H328			J8064E64 <sup>6</sup>	J404			
								H1259	H600			J8064E68 <sup>6</sup>	J404			
								HX1234 <sup>1</sup>	H328			J8064D648A <sup>6</sup>	J404			
								H2017 <sup>2</sup>	H327			J8064D688A <sup>6</sup>	J404			
											J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	JU054P01R <sup>D</sup>	J408
											J1006D21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J6026M51U <sup>D</sup>	J408
											JV006I21 <sup>4</sup>	J409				
Macronix				H2019 <sup>2</sup>	H327					J3006G21D <sup>5</sup>	J409	J8064E64 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	
				PE-69012 <sup>E</sup>	H304							J8064E66 <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	
								H1164 <sup>2</sup>	H328			J8064E68 <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401	
								H1259	H600			J8064D648A <sup>6</sup>	J404			
								HX1234 <sup>1</sup>	H328			J8064D648A <sup>6</sup>	J404			
								H2017 <sup>2</sup>	H327			J8064D668A <sup>6</sup>	J404			
											J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	JU054P01R <sup>D</sup>	J408
											J1006D21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J6026M51U <sup>D</sup>	J408
											JV006I21 <sup>4</sup>	J409				
											J3006G21D <sup>5</sup>	J409				
Marvell				H1102	H325	H1270	H322			J0006D21 <sup>3</sup>	J403	J8064E64 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	
				H1260	H600	H2005A <sup>2</sup>	H327			J1006D21 <sup>3</sup>	J402	J8064E68 <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	
				HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327			JV006I21 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401	
				H2019 <sup>2</sup>	H327					J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404			

1. **Extended temperature single port discrete magnetic cross reference**  
 2. **POE / VoIP** single port discrete magnetic cross reference  
 3. **Single port THT** tab-up/down connector cross reference  
 4. **Single port SMT** tab-up/down connector cross reference  
 5. **Single port SMT** tab-up connector cross reference  
 6. **Multiport 1 byN** THT tab-down connector cross reference  
 7. **RJ45/USB** single port THT tab-up connector cross reference  
 A. **TX** turns ratio, unless otherwise specified the RX turns ratio is 1:1  
 B. **One part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.**  
 C. **Multiport 2byN** THT connector cross reference (A=2X4, B=2X6, C=2X8)  
 D. **LED colors** (Green/Yellow, Green-Orange/Yellow)  
 E. **Low profile** (PCMCIA)  
 (continued on next page)  
**SMT** - Surface Mount Package    **THT** - Through Hole Package

# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: 10/100BASE-TX (continued)

IC Manufacturer	IC		Turns Ratio <sup>A</sup>	Single Part Number	Single Data Sheet	Dual Part Number	Dual Data Sheet	Quad Part Number	Quad Data Sheet	RJ45 PLATFORMS <sup>B</sup>						
	Part Number	Ports								Note	TX	1X1 Part Number	1X1 Data Sheet	1XN Part Number	1XN Data Sheet	2XN Part Number
Microlinear	ML665, ML662	1	AutoMDX		H1102	H325	H1270	H322		J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
					H1260	H600	H2005A 2	H327		J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
					HX1188 1	H325	H2009 2	H327		JV006I21 4	J409					
					H2019 2	H327				J3006G21D 5	J409					
Myson	MTD971	1	PHY		H1102	H325	H1270	H322	H1164 2	J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
					H1260	H600	H2005A 2	H327	H1259	J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
					HX1188 1	H325	H2009 2	H327	HX1234 1	JV006I21 4	J409					
					H2019 2	H327			H2017 2	J3006G21D 5	J409					
Mysticom	My-silPHY110	1	PHY		H1102	H325	H1270	H322	H1164 2	J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
					H1260	H600	H2005A 2	H327	H1259	J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
					HX1188 1	H325	H2009 2	H327	HX1234 1	JV006I21 4	J409					
					H2019 2	H327			H2017 2	J3006G21D 5	J409					
National Semiconductor	DP83815 (MACPHYTER)	1	MAC/PHY		H1102	H325	H1270	H322	H1164 2	J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
					H1260	H600	H2005A 2	H327	H1259	J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
					HX1188 1	H325	H2009 2	H327	HX1234 1	JV006I21 4	J409					
					H2019 2	H327			H2017 2	J3006G21D 5	J409					
Realtek	RTL8100 / 101 / 100B / 130	1			H1102	H325	H1270	H322		J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
					H1260	H600	H2005A 2	H327		J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
					HX1188 1	H325	H2009 2	H327		JV006I21 4	J409					
					H2019 2	H327				J3006G21D 5	J409					
SIS	SIS960	1	PHY		H1102	H325	H1270	H322	H1164 2	J0006D21 3	J403	J8064E62 6	J404	JU054P01R D	J408	
					H1260	H600	H2005A 2	H327	H1259	J1006D21 3	J402	J8064D628A 6	J404	J6026M51U D	J408	
					HX1188 1	H325	H2009 2	H327	HX1234 1	JV006I21 4	J409					
					H2019 2	H327			H2017 2	J3006G21D 5	J409					

1. **Extended** temperature single port discrete magnetic cross reference
2. **PoE /VoIP** single port discrete magnetic cross reference
3. **Single port THT** tab-up/down connector cross reference
4. **Single port SMT** tab-down connector cross reference
5. **Single port SMT** tab-up connector cross reference
6. **Multiport 1 byN THT** tab-down connector cross reference
7. **RJ45/USB** single port THT tab-up connector cross reference
8. **A. TX** turns ratio, unless otherwise specified the RX turns ratio is 1:1
9. **B. One** part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.
10. **C. Multiport 2 byN THT** connector cross reference (A=2X4, B=2X6, C=2X8)
11. **D. LED colors** (Green/Yellow, Green-Orange/Yellow)
12. **E. Low profile** (PCMCIA)

SMT - Surface Mount Package THT - Through Hole Package



# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: 10/100BASE-TX (continued)

IC Manufacturer	IC		Turns Ratio <sup>A</sup>	TX	Single Part Number	Single Data Sheet	Dual Part Number	Dual Data Sheet	Quad Part Number	Quad Data Sheet	1X1			1XN			2XN			RJ45/USB <sup>7</sup> Part Number	Data Sheet		
	Part Number	Ports									Note	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet			Part Number	Data Sheet
SMSC	LAN83C180	1	AutoMDX	1:1	H1102	H325	H1270	H322			J0006D21 3	J403	J8064E62 6	J404	JU054P01R <sup>D</sup>	J408							
	LAN83C183	1		1:1	H1260	H600	H2005A <sup>2</sup>	H327			J1006D21 3	J402	J8064D628A <sup>6</sup>	J404	J6026M51U <sup>D</sup>	J408							
	LAN83C190	1		1:1	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327			JV006I21 4	J409											
	LAN91C100FD / 110 / 111	1		1:1	H2019 <sup>2</sup>	H327					J3006G21D 5	J409											
	LAN91C96, LAN91C96I				PE-69012 <sup>E</sup>	H304																	
Sundance Technology	ST100	1	MAC/PHY	1:1	H1102	H325	H1270	H322			J0006D21 3	J403	J8064E62 6	J404	JU054P01R <sup>D</sup>	J408							
	ST101 (Fast Ethernet Media Converter)				H1260	H600	H2005A <sup>2</sup>	H327			J1006D21 3	J402	J8064D628A <sup>6</sup>	J404	J6026M51U <sup>D</sup>	J408							
Tamarack	3097-F, 3299	1	PHY	1:1	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 3	J403	J8064E62 6	J404	JU054P01R <sup>D</sup>	J408							
	TC6013	1	PHY	1:1	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006D21 3	J402	J8064E64 6	J404	J6026M51U <sup>D</sup>	J408							
	6043	4	PHY	1:1	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 4	J409	J8064D628A <sup>6</sup>	J404	J2045H3C	J401							
					H2019 <sup>2</sup>	H327			H2017 <sup>2</sup>	H327	J3006G21D 5	J409	J8064D648A <sup>6</sup>	J404	J2045H3C	J401							
TDK	TSC78Q2120			PE-69012 <sup>E</sup>	H304																		
Texas Instruments	TNETE110PM	1	MAC/PHY	1:1	H1102	H325	H1270	H322			J0006D21 3	J403	J8064E62 6	J404	JU054P01R <sup>D</sup>	J408							
					H1260	H600	H2005A <sup>2</sup>	H327			J1006D21 3	J402	J8064D628A <sup>6</sup>	J404	J6026M51U <sup>D</sup>	J408							
TOPIC	TP100, TP110	1	PHY	1:1	H1102	H325	H1270	H322			J0006D21 3	J403	J8064E62 6	J404	JU054P01R <sup>D</sup>	J408							
					H1260	H600	H2005A <sup>2</sup>	H327			J1006D21 3	J402	J8064D628A <sup>6</sup>	J404	J6026M51U <sup>D</sup>	J408							
Zarlink (Plessey/Mitel)	MT933, MT937	1		1:1	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 3	J403	J8064E64 6	J404	JU054P01R <sup>D</sup>	J408							
	MT954	4		1:1	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006D21 3	J402	J8064E68 6	J404	J6026M51U <sup>D</sup>	J408							
	MEA208	8		1:1	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 4	J409	J8064D648A <sup>6</sup>	J404	J2045H3C	J401							

1. **Extended temperature single port discrete magnetic cross reference**  
 2. **PoE / VoIP single port discrete magnetic cross reference**  
 3. **Single port THT tab-up/down connector cross reference**  
 4. **Single port SMT tab-up/down connector cross reference**  
 5. **Single port SMT tab-up/down connector cross reference**  
 6. **Multiport 1byN THT tab-down connector cross reference**  
 7. **RJ45/USB single port THT tab-up connector cross reference**  
 A. **TX turns ratio, unless otherwise specified the RX turns ratio is 1:1**  
 B. **One part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.**  
 C. **Multiport 2byN THT connector cross reference (A=2X4, B=2X6, C=2X8)**  
 D. **LED colors (Green/Yellow, Green-Orange/Yellow)**  
 E. **Low profile (PCMCIA)**  
**SMT - Surface Mount Package THT - Through Hole Package**

# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: 10BASE-T MODULES

IC Manufacturer	IC Part No.	Pulse Part No.	Ports Supported	Configuration <sup>1</sup>		Turns Ratio <sup>2</sup>		Package		Data Sheet	
				TX	RX	TX	RX	Style <sup>3</sup>	L/W/H (in)*		
AMD	AM79C90, AM79C98, AM79C100, AM79C940, AM79C960, AM79C961, AM79C965, AM79C970, AM79C971, AM79C981, AM79C982, AM79C983, AM79C961 (PC net-ISA II)	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020	
		E2003	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115	
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104	
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012	
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115	
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012	
		PE-68068	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.600 / .650 / .084	E100	
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115	
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103	
		AM79C984, AM79C985, AM79C988, AM79C989	ST4190T	Quad Port	T, C	T, C	1CT:1CT	1:1	SMT	1.112 / .625 / .230	ST4190T
			PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
			PE-68050L	Quad Port	T	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
			E5017	Single Port	T, C	T	1CT:1CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
		AM186CC15DN	E2003	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
	Cirrus Logic	CS8900, CS8920	PE-68062L	Quad Port	T, C	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		PE-68065L	Quad Port	T	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101	
		23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100	
		ST7010T	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.457 / .375 / .230	ST7010T	
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100	
		CS8900A-CQ3	E2023	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500 / .375 / .230	EC100
			E4005	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500 / .375 / .230	EC100
	CS8900A-RQ3	EX2024	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500 / .370 / .200	EC100	
Davicom	DM9008, DM9009, DM9081, DM9095	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020	
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104	
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012	
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115	
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012	
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115	
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103	
Fujitsu	MB86967	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115	
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103	
		PE-68030	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103	
	MB86951, MB86961, MB86964, MB86965B	23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100	
	PE-68048	Single Port	T, C	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100		
	PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100		
Intel (Level One)	LXT901A, LXT907A	23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100	
		PE-68048	Single Port	T, C	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100	
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100	
	LXT905, LXT908	23Z467SM	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.450 / .360 / .215	EC100	
		ST4202T	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.477 / .360 / .223	ST4202T	
	LXT902	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020	
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104	
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012	
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115	
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012	
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115	
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103	
	LXT914, LXT915, LXT916, LXT917, LXT918, LXT944	PE-68062L	Quad Port	T, C	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101	
		PE-68065L	Quad Port	T	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101	
		PE-68810	Quad Port	T	—	—	1:1 (4X)	SMT	.500 / .370 / .200	EC100	
	PE-68820	Quad Port	T	—	1:1.414 (4X)	—	SMT	.500 / .370 / .200	EC100		

(continued on next page)

1. Configuration: T = Transformer, F = Low Pass Filter, C = Choke, R = Pre-distortion resistors

2. Turns Ratio is referenced chip side to media side.

3. Package Styles: DIL—Dual-In-Line package, SIL—Single-In-Line package, SMT—Surface Mount Package, PCMCIA—Ultra Low Profile (SMT)

# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: 10BASE-T MODULES (continued)

IC Manufacturer	IC Part No.	Pulse Part No.	Ports Supported	Configuration <sup>1</sup>		Turns Ratio <sup>2</sup>		Package		Data Sheet
				TX	RX	TX	RX	Style <sup>3</sup>	L/W/H (in)*	
LSI	L64381 80C24	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		E2004	Single Port	R, F, T, C	R, F, T	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
Lucent	T7213, T7241A	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
		MicroLinear	ML2652, ML2653, ML4652, ML4658	23Z435	Single Port	T	T	2CT:1CT	1CT:1CT	DIL
23Z435SM	Single Port			T	T	2CT:1CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
PE-68052	Single Port			T, C	T	2CT:1CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
Motorola	MC68160	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		E2007	Single Port	R, F, T, C	R, F, T	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
National Semiconductor	DP83901A DP83902A, DP83902 DP83905, DP83934	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		E2001	Single Port	R, F, T, C	R, F, T	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
	DP83907, DP83924A	E5002	Quad Port	T, C	T, C	1CT:2CT	1:1	SMT	1.125 / .640 / .230	E116
		23Z467SM	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		ST4202T	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.447 / .360 / .223	ST4202T
		PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
Realtek	RTL8301	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101	
	RTL8019AS	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115	
	RTL8029AS	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115	
	RTL8301	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101	
SMSC	LAN91C46 LAN91C91 LAN91C96	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		EX2001	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E112
		PE-68056	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		EX2001	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E112
		E2009	Single Port	F, T, C	F, T	1CT:1.414	1CT:1	SMT	1.000 / .500 / .230	E115
	LAN91C111	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E112	
Texas Instruments	TNETE100A	23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
		PE-68048	Single Port	T, C	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
	TNETE2004	PE-68062L	Quad Port	T, C	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		PE-68065L	Quad Port	T	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
		PE-68048	Single Port	T, C	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
	TNETE2008	PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
		E5008	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	E117

1. Configuration: T = Transformer, F = Low Pass Filter, C = Choke, R = Pre-distortion resistors

2. Turns Ratio is referenced chip side to media side.

3. Package Styles: DIL—Dual-In-Line package, SIL—Single-In-Line package, SMT—Surface Mount Package, PCMCIA—Ultra Low Profile (SMT)

NOTE: ICs are in groups, Each group works with all adjacent Pulse parts.

\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

# LAN PRODUCTS/IC CROSS REFERENCE



## IC CROSS REFERENCE: ATM NETWORK COMPONENTS

Speed	IC Manufacturer/ IC Part Number	Pulse Part No.	Ports Supported	Configuration <sup>1</sup>		Turns Ratio <sup>2</sup>		Package		Data Sheet
				TX	RX	TX	RX	Style <sup>3</sup>	L/W/H (in)*	
155 ATM	National / 83223	PE-68517L	Single Port	C, T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.000 / .510 / .370	H303
	MicroLinear / ML6674	PE-68515L	Single Port	T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.000 / .510 / .370	H303
	PMC Sierra / PM5350	H1019	Single Port	C, T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.000 / .510 / .230	H303
		H1012	Single Port	T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.000 / .510 / .230	H303
		H1027	Dual Port	C, T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.125 / .640 / .230	H322
		H1028	Dual Port	T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.125 / .640 / .230	H322
		H1049	Dual Port	T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.125 / .640 / .230	H322
		H1036L	Quad Port	T, C	C, T	1CT:1	1CT:1CT	SMT	1.125 / .640 / .230	H316
		H1044	Quad Port	T, C	C, T	1CT:1	1CT:1CT	SMT	1.125 / .640 / .230	H316

1. Configuration: T = Transformer, C = Choke, S = Shunt Inductor
2. Turns Ratio is referenced chip side to media side.

3. Package Style: SMT – Surface Mount Package

NOTE: ICs are in groups, Each group works with all adjacent Pulse parts.

\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

# COMMON MODE CHOKES

## COMMON MODE CHOKES FOR LAN & TELECOM APPLICATIONS

Part Number	Number of Lines	Inductance OCL (µH MIN)	Package L/W/H (in.)*	Data Sheet	Part Number	Number of Lines	Inductance OCL (µH MIN)	Package L/W/H (in.)*	Data Sheet
PE-65944	2	24	.500 / .350 / .250	G002	PE-65950	4	4700 ±30%	.558 / .558 / .400	G002
23Z107	2	68	.340 / .230 / .250	G002	PE-65541	4	6000	.558 / .558 / .400	G002
PE-67531	2	140	.400 / .200 / .350	G002	PE-68613	4	3290	.505 / .400 / .500	G002
B2005	2	9000	.500 / .400 / .630	G002	PE-65857	4	22.5	.600 / .475 / .340	G002
PE-68624 <sup>1</sup>	2	47	.360 / .260 / .098	G002	PE-68627	4	24	.355 / .345 / .207	G002
PE-65855	2	4700	.400 / .345 / .250	G002	T8003	4	33	.450 / .360 / .215	G002
B2013	2	6300	.600 / .475 / .340	G002	23Z4000SMD	4	36	.600 / .500 / .270	G002
T8055	2	4700	.290 / .240 / .150	G002	PE-65738	4	37	.500 / .370 / .200	G002
B4003	2	4700	.355 / .345 / .300	G002	PE-65854	4	47	.360 / .340 / .098	G002
23Z87	3	69	.340 / .300 / .250	G002	23Z104SM	4	68	.360 / .230 / .215	G002
R0003	3	20	.360 / .260 / .098	G002	PE-67540	4	100	.600 / .475 / .340	G002
23Z87SM	3	69	.360 / .230 / .215	G002	PE-65853	4	4700	.720 / .550 / .390	G002
PE-65554	4	24	.595 / .480 / .300	G002	PE-64683	6	25	.685 / .480 / .300	G002
42Z4000	4	36	.500 / .400 / .250	G002	23Z106	6	85	.800 / .340 / .250	G002
PE-67501	4	50	.500 / .500 / .375	G002	PE-68602	6	21	.500 / .370 / .200	G002
PE-68002	4	68	.400 / .400 / .300	G002	23Z106SM	6	68	.450 / .360 / .215	G002
23Z104	4	85	.450 / .340 / .250	G002	PE-69011	8	36	.500 / .370 / .200	G002
PE-67539	4	140	.500 / .500 / .375	G002	23Z105SM	8	68	.450 / .360 / .215	G002
PE-65542	4	1000	.558 / .558 / .400	G002	23Z109SM <sup>3</sup>	10	7.5	.600 / .420 / .215	G002
PT5039	4	3600	.502 / .431 / .520	G002	T8008	16	47	1.125 / .640 / .230	G002
J0010D11 <sup>2</sup>	4	—	.850 / .630 / .535	G002					

1. PCMCIA package (SMT)
2. RJ45 Filtered Connector with integrated choke.
3. 100 kHz, IV

\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

SMT - Surface Mount Package THT - Through Hole Package



Pulse develops new products for emerging technologies that enable twisted pairs of copper and coaxial cable to deliver services to homes and businesses. These new technologies include all variations of digital subscriber lines, HFC and Home Phoneline Networks and cable modems.

Listed below are new transformers, inductors, and common mode chokes for xDSL applications, as well as ADSL POTS low pass filters. The transformers are designed to exceed ANSI and ETSI standards and have excellent THD performance and small footprints. Surface mount models are available upon request.

Also shown are various filters for Home Networking applications that allow consumers to establish local area networks in their homes over existing phone wires.



## ADSL Products

### ADSL Transformers

Part Number	Application*	Isolation Voltage (Vrms)	Turns-Ratio Chip-Line	Inductance ( $\mu\text{H} \pm 10\%$ )	Data Sheet
<b>Alcatel: DynaMiTe ADSL Chipset</b>					
B2090 <sup>1</sup>	CPE	500	1.65:2:1	7680 <sup>2</sup>	B963
B2091 <sup>1</sup>	CO	500	1.125:2:1.125	844 <sup>2</sup>	B963
B2098	CPE	2000	1:1:1	441.5	B963
B2102	CO	2000	2:1	409.5	B963
<b>Alcatel: MTK 20140 ADSL Chipset</b>					
B2038	CPE	2000	1:1	440	B930
B2068	CO	1500	1:2	410	B920
B2064 <sup>3</sup>	CPE	1500	1:1	480	B920
<b>Alcatel: MTK 20140/150/450 ADSL Chipsets</b>					
B2232	CO/CPE	1500	2CS:1CS	409.5	B820
<b>Alcatel: MTK-20850 ADSL Chipsets</b>					
BX2332	CO	1500	1.4:1	900	B821
BX2285C	CO	1500	1.4:1	900	B822
<b>Analog Devices: AD20msp910/AD20msp918 ADSL Chipsets</b>					
B2031	CO/CPE	1500	1:1	5000	B906
B2032 <sup>3</sup>	CO/CPE	1500	1:1	5000	B906
B2104	CO/CPE	1500	1:1.27	2000	B950
B2105 <sup>3</sup>	CO/CPE	1500	1:1.27	2000	B950
<b>Analog Devices: AD20msp930 ADSL Chipset</b>					
B2136	CO	1500	1CS:1.1CS	1750	B955
B2137 <sup>3</sup>	CO	1500	1CS:1.1CS	1750	B955
B2162 <sup>3</sup>	CO	1500	1CS:1.1CS	1750	B957
B2168 <sup>3</sup>	ADSL/ISDN CO	1500	1CS:1.1CS	100	B955
B2188	ADSL/ISDN CO	1500	1CS:1.1CS	100	B955
<b>Broadcom: BCM6410/20 - ADSL Bladerunner Chipsets</b>					
BX2286C	CO	1500	2:1	410	B811
BX2287C	ADSL/ISDN CO	1500	2:1	100	B811
BX2302C	CO	1500	1.41:1	410	B811
BX2303C	ADSL/ISDN CO	1500	1.41:1	100	B811
<b>Centillium: CT-L50SC04/CT-L50ST81, CT-L21SC08/CT-L41SC04 ADSL Chipsets</b>					
B2178	CO	1500	1CS:1CS	450	B979
B2189	CO/CPE	1500	1CS:1CS	450	B979
<b>Centillium: CT-L21ST30, CT-L22Sx15/30, CT-L4xSx15/30, CT-L5/L6xSx81 ADSL Chipsets</b>					
BX2258	CPE	1500	1CS:1CS	5000	B999
BX2259	CPE	1500	1CS:2.13CS	5000	B999
<b>Centillium: CT-L53/63/73SC08 ADSL Chipsets</b>					
BX2347	CO	1500	1:1	850	B994
BX2348	CO	1500	1:1	850	B994
BX2380	CO	1500	1:1.8	850	B994
BX2349	CO	1500	1:1.8	850	B994
B2420	CO	1500	1:1	6000	B994

Part Number	Application*	Isolation Voltage (Vrms)	Turns-Ratio Chip-Line	Inductance ( $\mu\text{H} \pm 10\%$ )	Data Sheet
<b>GlobespanVirata: ADSL CAP Chipset</b>					
B2002	CO	1500	1.4:1.4:1:1	940	B903
B2006	CPE	1500	1:1:1:1	410	B903
B2007	CO	3000	1.4:1.4:1:1	940	B903
B2008	CPE	3000	1:1:1:1	410	B903
B2011	CO	3000	1.4:1.4:1:1	940	B903
B2012	CPE	3000	1:1:1:1	410	B903
<b>GlobespanVirata: ADSL G7000 DMT Chipset</b>					
B2088 <sup>3</sup>	CPE	1875	1CS:1CS	430	B929
B2139	CPE	1875	1CS:1CS	407	B958
B2201 <sup>3</sup>	CO	2000	1.42CS:1CS	474	B929
<b>GlobespanVirata: NOVA/SLADE and ATLAS ADSL DMT Chipsets</b>					
BX2260 <sup>3</sup>	CPE	1875	1CS:2CS	440 <sup>4</sup>	B990
B2429	CPE	1875	1:1.6	440 <sup>4</sup>	B990
B2436	ADSL/ISDN CPE	1875	1:1.6	100	B990
<b>GlobespanVirata: Titanium Forte ADSL Chipsets</b>					
BX2367	CO	1500	1:1.41	474	B997
BX2369JB/WA <sup>5</sup>	CO	1500	1:1.41	474	B991
BX2372JB/WA <sup>5</sup>	CO	1500	1:1.15	474	B991
<b>GlobespanVirata: Jupiter, Saturn G16, G18, Octane ADSL Chipsets</b>					
B2414JB <sup>5</sup>	CO	1500	1:0.95	750	B991
<b>Infineon: PEB22716 - GEMINAX ADSL Chipset</b>					
BX2274J	CO	1500	1.33CS:1CS	1400	B812
<b>Itex: I80134, I90388, I90234, Apollo 1/2 (DMT/g.lite) ADSL Chipsets</b>					
B2064	CPE	1500	1CS:1CS	480	B920
<b>ST-Micro: SST70136/137/235 ADSL Chipsets</b>					
B2323	CPE	1500	1CS:1CS	480	B818
<b>Texas Instruments: TNETD4000C ADSL Chipset</b>					
B2132 <sup>3</sup>	CO	1500	1:1.95	1500	B954
<b>Texas Instruments: TNETD4500x ADSL Chipset</b>					
B2243	CO	1500	1CS:2CS	400	B823
B2133	ADSL/ISDN CO	1500	1CS:2CS	75	B823
<b>Texas Instruments: AC5 Chipset</b>					
B2205 <sup>3</sup>	CO	1500	1:1.9	400 <sup>4</sup>	B985
BX2375	ADSL/ISDN CO	1500	1CS:1.9CS	92.5	B985
<b>Texas Instruments: AP5, AR5, and AU5 Chipsets</b>					
BX2361	CPE	1500	1:2	1500 <sup>4</sup>	B988
BT2361	CPE	1500	1:2	1500 <sup>4</sup>	B806
BX2382 <sup>3</sup>	CPE	1500	1:2	1500 <sup>4</sup>	B988

1. Hybrid Transformer
2. MIN
3. When ordering Tape & Reel for SMT parts, add "T" suffix to the part number.
4.  $\pm 5\%$
5. Alternative footprint options on data sheet.

\*CO = Central Office, CPE = Customer Premise Equipment

THT - Through Hole Package SMT - Surface Mount Package

## ADSL Products (continued)

### ADSL Low Pass Filter Modules for CO\*

Part Number	Line Impedance	Application	Cut-off Freq. (kHz)	Start Freq. (kHz)	Data Sheet
B8040	ETSI Complex	ADSL/POTS	4	25	B814
B8046	UK Complex	ADSL/POTS	4	25	B810
B8047	ETSI Complex	ADSL/POTS	4	25	B813
B8049	ETSI Complex	ADSL/POTS	4	25	B813
B8042	135 Ω - Europe	ADSL/ISDN	80	138	B815

### ADSL POTS Low Pass Filters for CPE\*

Part Number	Line/POTS Port Impedance <sup>1</sup>	POTS Pass-band, Ripple (200-4000 Hz)	Return Loss in Passband (dB MIN)	POTS Loop Currents (mA DC)	Data Sheet
B2039A	600 Ω	±0.5 dB	20	100	B905
B2063	600 Ω <sup>2</sup>	±0.5 dB	12	100	B914
B8004	600 Ω	—	11	100	B974
B8010	600 Ω	—	11	100	B976
B2351	600 Ω - Japan	±1.0 dB	9	120	B801
B2351A	600 Ω - Japan	±1.0 dB	9	120	B801
B2396.0xx	600 Ω - Japan	±1.0 dB	9	120	B801
B2396.1xx	600 Ω - Japan	±1.0 dB	9	120	B801

1. Alternate CPE\* filter components available from Excelsus®.  
<http://www.excelsus-tech.com>

2. G.Lite Standard

### ADSL Inductors

Part Number	Inductance	DC Resistance (Ω Max 2 pair)	Isolation Voltage (Vrms)	Mounting	Data Sheet
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#### Inductors for use in ADSL POTS Low Pass Filters

B2023	6.0 mH ±5%	4.0	1500	THT	B902
B2024	4.0 mH ±5%	3.0	1500	THT	B902
B2025	3.0 mH ±5%	2.5	1500	THT	B902
B2026	10.0 mH ±5%	6.0	1500	THT	B902
B2086	4.0 mH ±10%	3.6	1500	SMT	B902
B2113	2.25 mH ±10%	2.25	500	THT	B902
B2114	1.425 mH ±10%	2.25	500	THT	B902
B2116	1.65 mH ±10%	2.25	500	THT	B902
B2117	1.35 mH ±10%	2.25	500	THT	B902
B2118	0.8 mH ±10%	2.0	500	THT	B902

#### Inductors for use with Alcatel DynaMiTe Chipset

B2061	282.5 μH ±5%	1.0	500	THT	B963
B2062	238.5 μH ±5%	0.76	500	THT	B963
B2099	500.5 μH ±10%	2.10	500	THT	B963
B2100	91.0 μH ±10%	0.85	500	THT	B963
B2101	96.0 μH ±5%	0.42	500	THT	B963
BX8115	282 μH ±5%	1.0	500	SMT	B817
BX8118	500 μH ±10%	2.10	500	SMT	B817

#### Inductors for use with Centillium CT-L50SC04 Chipset

B2208	170.0 μH ±7%	4.0	500	SMT	B972
B2209	300.0 μH ±7%	7.0	500	SMT	B972
B2210	455.0 μH ±7%	9.0	500	SMT	B972

#### Inductors for use with GlobespanVirata G7000 (DMT/CAD) Chipset

B2125A	50.0 μH ±7%	2.0	500	SMT	B968
B2126A	170.0 μH ±7%	6.5	500	SMT	B968
B2127A	340.0 μH ±7%	7.5	500	SMT	B968
B2155	205.0 μH ±7%	6.0	500	SMT	B968

#### Inductors for use with Legerity CO\* Chipsets

B8101	7.0 mH ±10%	11.0	1000	THT	B804
B8102	9.35 mH ±10%	13.6	1000	THT	B804
B8106	7.0 mH ±10%	14.1	1000	THT	B804
B8107	9.35 mH ±10%	26.0	1000	THT	B804

## HDSL/HDSL2 PRODUCTS

### HDSL Transformers

Part Number	Matched to	Application (2 pair)	Turns Ratio Chip-Line (±3%)	Inductance Line Side	Data Sheet
<b>Conexant Chipsets</b>					
PE-68621	BT8952	784 Kbps	2CT:1:1	3.0 <sup>1</sup>	B901
PE-68622	BT8952	1168 Kbps	2CT:1:1	2.0 <sup>1</sup>	B901
PE-69300	BT8921/BT8970	784 Kbps	1CT:1:1	3.0	B901
PE-69301	BT8921/BT8970	1168 Kbps	1CT:1:1	2.0	B901
B1001	BT8960	416 Kbps	1CT:1:1	3.5	B901
B1002	BT8960	288 Kbps	1CT:1:1	5.0	B901
B1004	BT8960	160 Kbps	1CT:1:1	8.0	B901
B1006	BT8921/BT8970	1168 Kbps	1CT:1:1	2.0	B901
B1007	BT8921/BT8970	784 Kbps	1CT:1:1	3.0	B901
B1017	BT8921/BT8970	784 Kbps	1:2CS <sup>2</sup>	3.0 <sup>1</sup>	B978
B1018	BT8921/BT8970	1168 Kbps	1CT:2CS <sup>2</sup>	2.0 <sup>1</sup>	B978
B1020A	RS8973	full range	1:2CS <sup>2</sup>	2.0	B978
B1028	BT8921/BT8970	1168 Kbps	1CT:2CS <sup>2</sup>	2.0 <sup>1</sup>	B978
B1040A	RS8973	full range	1:2CS <sup>2</sup>	2.0	B978
B1059	BT8921/BT8970	784 Kbps	1:2CS <sup>2</sup>	3.0	B978
B1075	RS8973	full range	1CT:2CS <sup>2</sup>	2.0 <sup>1</sup>	B978
B1077	RS8973	full range	1CT:2CS <sup>2</sup>	2.0 <sup>1</sup>	B978
<b>Level One Chipsets</b>					
PE-68614 <sup>3</sup>	SK70704/06/07/08	784 Kbps	1CT:1.8CT	2.75 <sup>1</sup>	B901
PE-68650 <sup>3</sup>	SK70704/06/07/08	1168 Kbps	1CT:1.8CTS	2.06 <sup>1</sup>	B901
B1013	SK70704/06/21/25	784 Kbps	1CT:1.8CTS	3.00	B924

1. (mH ±6%)

2. ±2%

3. Package size is 1.05"/26,67 cm (L), .950"/24,13 cm (W), .500"/12,70 cm (H).

### HDSL2/G.SHDSL Transformers

Part Number	Matched to	Application (2 pair)	Turns Ratio Chip-Line (±3%)	Inductance Line Side (±10%)	Data Sheet
<b>Intel (Level One) Chipsets</b>					
B1019 <sup>3</sup>	SK70740/41/42	full range	1CT:2CTS	1.76	B921
B1042 <sup>3</sup>	SK70740/41/42	full range	1CT:2.3CTS	1.76	B921
B1056	LXT772/776	full range	1CS:3CS <sup>2</sup>	2.00	B965
B1083	LXT772/776	full range	1:3CS <sup>2</sup>	2.25	B965
<b>Infineon Chipsets</b>					
B1093	PEB22622	full range	3.2:1:1	3.00	B993
	PEF22623/24622				
B1063	PEB22622	full range	3.2:1:1	3.00	B993
	PEF22623/24622				
<b>GlobespanVirata Chipsets</b>					
B1078	Aluminum™	full range	2CS:1CT <sup>2</sup>	4.00	B973
B1053	G2237	full range	1CT:2.2CS <sup>1</sup>	3.00 <sup>1</sup>	B966
B1074B	Orion	full range	1:5.4	3.00 <sup>1</sup>	B803

1. (mH ±5%)

2. ±2%

3. Package size is 1.05"/26,67 cm (L), .950"/24,13 cm (W), .500"/12,70 cm (H)

\*CO = Central Office, CPE = Customer Premise Equipment

## COMMON MODE CHOKES FOR ADSL/VDSL 1

Part Number	Common Mode Attenuation (dB TYP)			Isolation Voltage (Vrms)	Data Sheet
	500 kHz	1 MHz	10 MHz		
B2005	45	47	43	1500	B902
B2013	45	47	43	1500	B902
B4001 <sup>1</sup>	45	49	35	1500	B912
B4003 <sup>1</sup>	45	49	35	1500	B912
BX4053 <sup>2</sup>	45	49	35	1500	B912

1. To reduce common mode noise from AM or HAM radio.
2. Dual

## VDSL PRODUCTS

### Hybrid Transformers

Part Number	Insertion Loss (db MAX)	Isolation Voltage (Vrms)	Impedance (Ω)		Data Sheet
			TX	RX	

#### Infineon: 2-band, 4-band and 10Base-S Chipsets 100 kHz–20 MHz

BX4036 (120 Ω)	0.50 to 2	1500	40	270	B808
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#### Broadcom: BCM 6010 Chipset

Part Number	Insertion Loss (db MAX)	Isolation Voltage (Vrms)	Turns Ratios		Data Sheet
			TX	RX	
B4008	0.50	2000	2:1	1:1	B925
B4025	0.50	2000	2:1	1:1	B925
BX4030 <sup>1</sup>	0.70	2500	2:1	1:1	B984

1. BX4030 is an extended bandwidth version tested up to 30 MHz. See data sheet B984 for details.

### Line Transformers

Part Number	Insertion Loss (db MAX)	Isolation Voltage (Vrms)	Turns Ratios		Data Sheet
			TX	RX	
B4004	1.00	1500	1CT:1CS	—	B975
B4006	0.50	3000	1:1	—	B975
B4023	0.75	3000	1:1CT	—	B975

#### Broadcom: BCM 6315 Chipset

B4020	0.80	3000	1CT:1CT	—	B981
B4021	0.50	1500	1CT:1CT	—	B981
BX4055	0.50	1500	1:1	—	B981
BX4056	0.60	1500	1:1.16	—	B981

#### Metalink: VDSL Chipset

B4033	0.40	1500	1:3	2:3	B998
B4034	0.40	1500	1:3.5	2:3.5	B998
B4064	0.40	1500	1:3.6	2:3.6	B998

#### Texas Instruments TNETD8000 Chipset

B4020	0.70	3000	1CT:1CT	—	B981
B4021	0.50	1500	1CT:1CT	—	B981

### Filter Solutions

Part Number	Passband Frequency (Hz)	Insertion Loss (dB MAX)	Return Loss (dB MIN)	Impedance (Ω)		Data Sheet
				TX	RX	

#### Infineon: PEB2281X Chipset - ISDN Splitter LFP

B4010	20 kHz–120 kHz	0.4	20	150	150	B931
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#### Digital Phone Splitter LFP

B4031	10 kHz–600 kHz	1.0	12	150	150	B987
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#### Bandpass Filter & Hybrid Transformers

B4011 (135 Ω)	900 kHz–7.9 MHz	0.5	10	40	270	B931
B4014 (100 Ω)	900 kHz–7.9 MHz	0.5	10	40	270	B931
B4032 (120 Ω)	950 kHz–7.9 MHz	0.8	10	40	270	B987

#### Filters, Transmit & Receive

B4012	4.5 MHz–7.9 MHz	0.8	12	—	270	B931
B4013	900 kHz–3.3 MHz	0.8	12	—	270	B931

## VDSL PRODUCTS (continued)

### Filter Solutions (continued)

Part Number	Passband Frequency (Hz)	Insertion Loss (dB MAX)	Return Loss (dB MIN)	Impedance (Ω)		Data Sheet
				TX	RX	

#### Filters, Transmit & Receive (continued)

B4015 <sup>1</sup>	4.5 MHz–7.9 MHz	0.8	12	—	270	B931
B4016 <sup>1</sup>	900 kHz–3.0 MHz	1.2	12	—	270	B931
B4017	900 kHz–3.0 MHz	0.8	10	40	—	B931
B4018	4.5 MHz–7.9 MHz	0.8	10	40	—	B931

#### Quadport CO\* Filter Modules for 2-band, 10Base-S Infineon Chipsets<sup>3</sup>

BX4037 <sup>2</sup>	1 MHz - 7.9 MHz	1.5	12	40	270	B809
BX4038 <sup>2</sup>	1 MHz - 7.9 MHz	1.5	12	40	270	B809

#### Single Port CPE\* Filter Modules for PEB22811/12/22 Infineon Chipsets<sup>4</sup>

BX4039 <sup>5</sup>	1 MHz - 7.9 MHz	1.0	12	40	270	B819
BX4040 <sup>5</sup>	1 MHz - 7.9 MHz	1.0	12	40	270	B819

1. High performance
2. BX4037 for ADSL over ISDN, BX4038 for Smartphone applications
3. Including HPF splitter, hybrid transformer, TX & RX separation filters and common mode chokes
4. Including HPF splitter, hybrid transformer, TX & RX separation filters
5. BX4039 for over ISDN, BX4040 for Smartphone applications

## HOME NETWORKING PRODUCTS

### Filters

Part Number	Primary Application <sup>1</sup>	Secondary Application	Isolation Voltage	Data Sheet
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#### All 1M8 Home Phoneline Networking Chipsets

B6003	HPNA <sup>1</sup>	—	2000	B916
B6003L	HPNA <sup>1</sup>	—	2000	B960

#### AMD: 79C978 Phoneline/Ethernet LAN Controller

B6005	HPNA <sup>1</sup>	10Base-T	2000	B918
B6006L	HPNA <sup>1</sup>	10Base-T	2000	B961

#### Agere Systems: Home Wire™ Chipset

B6017	HPNA <sup>1</sup>	—	2000	B977
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#### Broadcom: iLine 10™ Chipset (BCM4100/4210)

B6019 <sup>2</sup>	HPNA <sup>1</sup>	—	1500	B964
B6020	HPNA <sup>1</sup>	—	1500	B964

#### Conexant: CX24611 Integrated HomePNA 2.0 device

BX6034	HPNA <sup>1</sup>	—	2000	B996
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#### INTEL: 21145 Phoneline/Ethernet LAN Controller

B6001	HPNA <sup>1</sup>	10Base-T	2000	B915
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#### Rockwell: RS7220 Phoneline/Ethernet LAN Controller

SF5750T	HPNA <sup>1</sup>	10/100 Mb	2000	SF5750T
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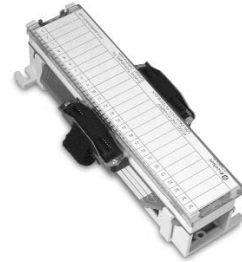
1. Home Phoneline Networking Alliance®
2. 2 kV 1000 pF capacitor included in package.

### Transformers

Part Number	Application	Turns Ratio	Inductance (μH MIN)	Isolation Voltage (Vrms)	Data Sheet
ST5382	HPNA <sup>1</sup>	1:1(±5%)	120	2000	ST5382
B6014	HPNA <sup>1</sup>	1:1(±5%)	40	1500	B971
B6080	HomePlug <sup>2</sup>	1:1(±2%)	250	2000	B805

1. Home Phoneline Networking Alliance®
2. HomePlug Powerline Alliance

# EXCELSUS® BRAND PRODUCTS



The Z-330 Series DSL filters meet ANSI T1.421 specifications, providing easy do-it-yourself installation for peak Internet performance.

Unique filter protects alarm panels from DSL interference, enabling cut-line protection and line-seizure to operate correctly with DSL.

A variety of MTU products, based on common cross-connect blocks with built-in splitters, are offered.

Excelsus® is Pulse's consumer brand, targeting DSL end-users, telephone companies, equipment providers and Internet service providers worldwide. Offering various splitter and filter types (such as inline, wall-mount, dual-line, tri-jack, dynamic and even alarm panel filters), these products meet the demanding ETSI, ITU and ANSI specifications.

Designs can be quickly adapted to meet new requirements. As the leading DSL filter provider, Pulse's Excelsus products also bring innovative design and manufacturing expertise to central office POTS splitters. Whether for CPE, CO or MTU applications, delivering high-performance products at the lowest possible price has made Excelsus the number one selling brand of DSL filters worldwide.

To discuss a customer requirement or order Excelsus products, please contact the Excelsus Sales Department toll free at 800-457-0967 or 760-476-1511 direct. For more information about the Excelsus line of products, visit <http://www.excelsus-tech.com>.

## NORTH AMERICA, CENTRAL AMERICA & SOUTH AMERICA

Part Number:	Z-200SM	Z-230PJ	Z-230TJ	Z-270TJ	Z-D250TJA	Z-D250CWA	Z-330TJA	Z-330CWA	Z-A431PJ31X-A
<b>Application:</b>	<b>DSL Filters</b>								<b>Alarm Filter</b>
Works with single line phone, fax/answering machine or dial-up modem	◆	◆	◆	◆	◆	◆	◆	◆	—
Plugs into standard RJ11 phone jack	◆	◆	◆	◆	◆	◆	◆	◆	RJ31-38X
Blocks interference between voice and DSL/HPN	◆	◆	◆	◆	◆	◆	◆	◆	◆
Blocks interference from cordless phones and other RF sources	◆	—	—	◆	—	—	—	—	—
Filters residential alarm panel for homes with DSL/HPN	—	—	—	—	—	—	—	—	◆
Works with two-line phone device	◆	—	—	—	◆	◆	—	—	—
"Dual" filtering of both Line 1 and Line 2	—	—	—	—	◆	◆	—	—	—
"Dynamic" filtering for 6 or more phones per line	—	—	—	◆	—	—	—	—	—
Maximum number of filters on phone line while still supporting Caller ID	5	5	5	No limit	5	5	5	5	N/A
Provides a DSL jack for connecting a DSL modem or HPN device	—	—	◆	◆	◆	◆	◆	◆	—
Wall-mount housing snaps over existing wall-phone outlet	—	—	—	—	—	◆	—	◆	—
Wall-mount housing for two line wall-phone	—	—	—	—	—	◆	—	—	—
Provides a second filtered jack for additional telephone devices	—	—	—	—	—	◆	—	◆	—
Complies with ANSI T1.421 specifications	—	—	—	—	—	—	◆	◆	—





International filters and splitters meet demanding ETSI and ITU requirements.

## EUROPE

Part Number: Filter Type:	CP-800 Splitter	Z-200XX <sup>1</sup> Distributed	CP-790TJ Splitter	Z-230PJ Distributed	CP-421SE Splitter	Z-420UK-A Dynamic Distributed	CP-421TJ Splitter	Z-471TJ Dynamic Distributed	CP-791TJ Splitter
<b>Plugs into Country-specific Phone Jack:</b>	Germany	BE, FR, IT <sup>1</sup>	Norway	Spain & Switzerland	Sweden	United Kingdom	Universal	Universal	Universal
Works with single line phone, fax/answering machine or dial-up modem	◆	◆	◆	◆	◆	◆	◆	◆	◆
Blocks interference between voice and DSL	◆	◆	◆	◆	◆	◆	◆	◆	◆
Blocks interference between voice and HPN	—	◆	—	◆	—	◆	—	◆	—
Blocks interference from cordless phones and other RF sources	—	◆	—	—	—	—	—	—	—
Filters Line 1, passes Line 2	—	—	—	—	—	—	—	—	—
"Dynamic" filtering for 2 or more phones per line	—	—	—	—	—	◆	—	◆	—
Provides a DSL jack for connecting a DSL modem or HPN device	◆	◆	◆	—	◆	◆	◆	◆	◆
Complies with ITU-T G.992.1 (G.dmt)	◆	◆	◆	◆	◆	◆	◆	◆	◆
Complies with ETSI performance requirements	◆	—	◆	—	◆	◆	◆	◆	◆
Telephone service supported	POTS/ISDN	POTS	POTS/ISDN	POTS	POTS	POTS	POTS	POTS	ISDN
Certification*	CE	CE	CE	CE/MII	CE	CE	CE	CE	CE

1. **XX:** For country-specific part number, add the suffix **BE** (Belgium) or **FR** (France) or **IT** (Italy) in place of the XX. (Example: Z-200BE).

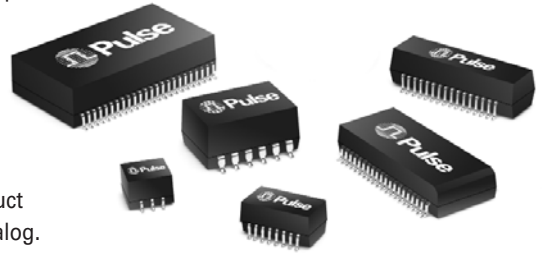
## MIDDLE EAST & ASIA PACIFIC

Part Number: Filter Type:	Z-200UKI2 Distributed	Z-230PJ Distributed	CP-422TJ Splitter	Z-200UK Distributed	CP-423TJ Splitter	Z-470TJ Dynamic Distributed
<b>Plugs into Country-Specific Phone Jack:</b>	Israel	China & Taiwan	China & Taiwan	Hong Kong	Japan	Japan
Works with single line phone, fax/answering machine or dial-up modem	◆	◆	◆	◆	◆	◆
Blocks interference between voice and DSL	◆	◆	◆	◆	◆	◆
Blocks interference between voice and HPN	◆	◆	—	◆	—	◆
Blocks interference from cordless phones and other RF sources	◆	—	—	◆	—	—
Filters Line 1, passes Line 2	◆	—	—	—	—	—
"Dynamic" filtering for 2 or more phones per line	—	—	—	—	—	◆
Provides a DSL jack for connecting a DSL modem or HPN device	◆	—	◆	◆	◆	◆
Complies with ITU-T G.992.1 (G.dmt)	◆	◆	◆	◆	◆	◆
Telephone service supported	POTS	POTS	POTS	POTS	POTS	POTS
Certification*	CE	MII	MII	CE	JATE	JATE

\*NOTE: CE = Communauté Européenne, MII = Ministry of Information Industries, JATE = Japan Approvals Institute for Telecommunications Equipment

Pulse is the world's leading manufacturer of magnetics for digital and analog telecom applications. The product line includes a variety of isolation transformers and common mode chokes matched to the leading T1/E1/CEPT/ISDN-PRI, T3/E3/STS-1, ISDN-S/T, ISDN-U, and DDS transceiver chips, as well as transformers for analog audio interface applications.

Packaging options include surface mount, through hole, single, dual, quad and octal transformer models. Many parts are recognized by UL, TÜV, BABT, Austel and/or CSA. Go to the Pulse web site (<http://www.pulseeng.com>) to view the latest product information and to select the data sheet shown adjacent to each part number in this catalog. The Telecom IC Cross Reference begins on page 24 in this section.



## TRANSFORMERS

### T1/E1/CEPT/ISDN-Pri—SINGLE, DUAL

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet	Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
<b>SINGLE TRANSFORMERS</b>					<b>DUAL TRANSFORMERS</b>				
<b>1.5 kV Isolation, Standard Temperature Range, THT</b>					<b>1.5 kV Isolation, Extended Temperature Range, THT</b>				
PE-64931	1:1:1 (1:2CS)	1.20	.350 / .500 / .250	T608	PE-68618	1CT:1CT & 1CT:3CT:..25	1.20 & 0.60	1.000 / .390 / .290	T608
PE-64933	1CT:3CT	1.20	.350 / .500 / .250	T608	PE-64950	1CT:1CT & 1CT:3CT:1	1.20 & 0.60	1.000 / .390 / .290	T608
PE-64934	1:1	1.20	.350 / .500 / .250	T608	PE-65567	1:1.15CT & 1:2CT	1.50 & 1.20	.800 / .390 / .290	T608
PE-64936	1CT:1	1.20	.350 / .500 / .250	T608	PE-65568	1:1:1.266 & 1:2CT	1.50 & 1.20	.800 / .390 / .290	T608
PE-64937	1:1.36	1.20	.350 / .500 / .250	T608	PE-65774	1CT:2CT & 1:1.36CT	1.20 & 1.20	.800 / .390 / .290	T608
PE-64940	1:1:1.58	0.30	.350 / .500 / .250	T608	<b>1.5 kV Isolation, Standard Temperature Range, THT</b>				
PE-64941	1:1:2	0.80	.350 / .500 / .250	T608	PE-64951	1:2CT & 1:2CT	1.20 & 1.20	.800 / .390 / .250	T608
PE-64942	1:1:2.62	0.80	.350 / .500 / .250	T608	PE-64952	1:2CT & 1:1.36CT	1.20 & 1.20	.800 / .390 / .250	T608
PE-64943	1CT:2CT	1.20	.350 / .500 / .250	T608	PE-64953	1:2CT & 1:2CT	2.00 & 2.00	.800 / .390 / .250	T608
PE-65351	1:2CT	1.20	.350 / .500 / .250	T608	PE-64954	1CT:2CT & 1:1	1.20 & 1.20	.800 / .390 / .250	T608
PE-65363	1:4CT	0.50	.350 / .500 / .250	T608	PE-64955	1.58:2CT & 1.58:1	0.80 & 0.80	.800 / .390 / .250	T608
PE-65379	1:1.14CT	1.20	.350 / .500 / .250	T608	PE-64956	2:2CT & 2:1	0.80 & 0.80	.800 / .390 / .250	T608
PE-65388	1:1.15CT	1.50	.350 / .500 / .250	T608	PE-64957	2.62:2CT & 2.62:1	1.20 & 1.20	.800 / .390 / .250	T608
PE-65389	1:1:1.266	1.50	.350 / .500 / .250	T608	PE-65565	1:1.15CT & 1:2CT	1.50 & 1.20	.800 / .390 / .290	T608
PE-65415	1CT:2CT	1.20	.350 / .500 / .250	T608	PE-65566	1:1:1.266 & 1:2CT	1.50 & 1.20	.800 / .390 / .290	T608
PE-65558	1:2.3CT	1.20	.350 / .500 / .250	T608	<b>1.5 kV Isolation, Standard Temperature Range, BH Package, SMT</b>				
PE-65586	1:1.36CT	1.20	.350 / .500 / .250	T608	T1136	1CT:1CT & 1CT:1.36CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65755	1CT:1CT	1.20	.350 / .500 / .250	T608	T1022	1CT:1CT & 1CT:1.5CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-68644	1CT:1	0.70	.350 / .500 / .250	T608	T1190	1CT:1.36CT & 1CT:1CT	1.20 & 1.20	.505 / .375 / .245	T654
PE-68645	1:1.36CT	0.70	.350 / .500 / .250	T608	PE-65861	1CT:2CT & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
T1054	1:1.5CT	1.20	.350 / .500 / .250	T608	PE-65862	1CT:2CT & 1:1.36CT	1.20 & 1.20	.505 / .375 / .245	T608
T1249	1:1.26CT	1.20	.350 / .500 / .250	T608	PE-65865	1:1.15CT & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
<b>1.5 kV Isolation, Extended Temperature Range, THT</b>					PE-65866	1:1/1.26 & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-68664	1:1/1.26	1.50	.350 / .500 / .250	T608	PE-65870	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65340	1:1.36	1.20	.350 / .500 / .250	T608	PE-68678	1CT:1CT & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65770	1:1.15CT	1.50	.350 / .500 / .250	T608	PE-68786	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	.505 / .375 / .245	T608
PE-65771	1CT:2CT	1.20	.350 / .500 / .250	T608	T1023	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	.505 / .375 / .245	T608
PE-65778	1CT:1CT	1.20	.350 / .500 / .250	T608	ST5020	1:1/1.15/1.26 & 1:2CT	1.50 & 1.50	.447 / .360 / .248	ST5020
PE-68600	1CT:3CT	1.20	.350 / .500 / .250	T608	ST5028	2CT:1CT & 1CT:2CT	1.20 & 1.20	.447 / .360 / .248	ST5028
T1229	1:1.583CT	1.20	.350 / .500 / .250	T659	ST5078	1.36CT:1 & 1:2CT	1.50 & 1.50	.447 / .360 / .248	ST5078
<b>1.5 kV Isolation, Extended Temperature Range, SMT</b>					ST5116	2CT:1/1.26 & 1/1.26:2CT	1.50 & 1.50	.447 / .360 / .248	ST5116
TX1281	1CT:1	2.0	.220 / .305 / .200	T669	ST5122	1.26CS:1 & 1.26CS:1	1.50 & 1.50	.447 / .360 / .248	ST5122
TX1282	1.14CT:1	2.2	.220 / .305 / .200	T669	T1137	1CT:2.42CT & 1CT: 2.42CT	1.20 & 1.20	.505 / .375 / .245	T651
TX1283	1.35CT:1	2.0	.220 / .305 / .200	T669	T1021	2CT:1/1.26 & 2CT:1/1.26	1.50 & 1.50	.505 / .375 / .245	T637
TX1284	1.26CT:1	1.2	.220 / .305 / .200	T669	T1075	2CS:1.57/2 & 2CS:1.57/2	1.20 & 1.20	.505 / .375 / .245	T637
TX1314	1:1/1.26	1.2	.300 / .390 / .250	T678	T1122	1CT:2CT & 1CT:2.3CT	1.20 & 1.20	.505 / .375 / .245	T608
TX1315	1CT:1CT	1.2	.300 / .390 / .250	T678	T1121	1CT:1.5CT & 1CT:1.5CT	1.50 & 1.50	.505 / .375 / .245	T608
<b>3.0 kV – Reinforced Insulation per IEC 950, THT</b>					T1286	1CT:2.4CT & 1CT: 2.4CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65830	1:1:1.58	0.80	.558 / .558 / .400	T608	<b>1.5 kV Isolation, Standard Temperature Range, Low Profile Package, SMT</b>				
PE-65831	1:1:2	0.80	.558 / .558 / .400	T608	T1205	1CT:2.42CT & 1CT:2.42CT	1.20 & 1.20	.555 / .345 / .165	T652
PE-65832	1:1.36CT	1.20	.558 / .558 / .400	T608	<b>1.5 kV Isolation, Extended Temperature Range, BH Package, SMT</b>				
PE-65833	1CT:2CT	1.20	.558 / .558 / .400	T608	T1090	1CT:2CT & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65834	1:1	1.20	.558 / .558 / .400	T608	T1091	1CT:2CT & 1:1.36CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65835 <sup>1</sup>	1CT:2CT	1.20	.558 / .558 / .400	T608	T1076	1:1.15CT & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65836	1CT:3CT:1	.600	.558 / .558 / .400	T608	T1092	1:1/1.26 & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65837	1:1.08:1.36	1.50	.558 / .558 / .400	T608	T1093	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65838	1:1.14	1.50	.558 / .558 / .400	T608	T1077	1CT:1CT & 1CT:1.5CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-65839	1:1:1.266	1.50	.558 / .558 / .400	T608	T1094	1CT:1CT & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
PE-68646	1:1.58:2	1.50	.558 / .558 / .400	T608	T1144	1CT:1CT & 1CT:2.4CT	1.00 & 1.00	.505 / .375 / .245	T608
PE-68788	1CT:1.41CT	0.80	.558 / .558 / .400	T608	T1095	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	.505 / .375 / .245	T608
					T1096	1CT:1.41CT & 1CT:1.41CT	1.00 & 1.00	.505 / .375 / .245	T608

1. To make a 1CT:1 ratio from a 1CT:2CT ratio, use only one-half the 2CT winding.

## TRANSFORMERS, TRANSFORMER/CHOKE INTERFACE MODULES

T1/E1/CEPT/ISDN-Pri—SINGLE, DUAL

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
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Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
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### DUAL TRANSFORMERS (continued)

#### 1.5 kV Isolation, Extended Temperature Range, BH Package, SMT (continued)

T1097	1CT:1CT & 1CT:1.67CT	1.00 & 1.00	.505 / .375 / .245	T608
T1146	1:2/2.4 & 1:0.79/1	1.00 & 1.00	.505 / .375 / .245	T608
TX1089	1CT:1CT & 1CT:1CT	1.20 & 1.20	.505 / .375 / .245	T608
TX1099	1CT:1:0.8 & 1CT:1:0.8	1.20 & 1.20	.505 / .375 / .245	T608
TX1287	1CT:2.42CT & 1CT:2.42CT	1.20 & 1.20	.505 / .375 / .245	T608
TX1317	1:2CT & 1:2CS	1.20 & 1.20	.505 / .375 / .245	T608
TX1186	1CT:1.58:2 & 1:1.65:2	1.20 & 1.20	.505 / .375 / .245	T608
TX1187	1CT:2CT & 1:1	1.20 & 1.20	.505 / .375 / .245	T608
TX1188	1CT:2CT & 1CT:2CT	1.20 & 1.20	.505 / .375 / .245	T608
TX1189	1:1.36CT & 1:2CT	1.20 & 1.20	.505 / .375 / .245	T608

#### 1.5 kV Isolation, Standard Temperature Range, ANTE Package, SMT

T1131	1CT:1 & 1:1.36CT	.70 & .70	.675 / .600 / .340	T608
PE-68861	1CT:2CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68862	1CT:2CT & 1:1.36CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68863	1:2CT & 1:1.14CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68864	1CT:2CT & 1:1	1.20 & 1.20	.675 / .600 / .340	T608
PE-68865	1:1.15CT & 1CT:2CT	1.50 & 1.20	.675 / .600 / .340	T608
PE-68866	1:1/1.26 & 1:2CT	1.50 & 1.20	.675 / .600 / .340	T608
PE-68869	1CT:2CT & 1:1.08CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68836	1:1/1.26 & 1:1/1.26	1.50 & 1.50	.675 / .600 / .340	T608

#### 1.5 kV Isolation, Extended Temperature Range, ANTE Package, SMT

PE-68822	1CT:2CT & 1:1.36CT	1.60 & 1.60	.675 / .600 / .340	T608
PE-68825	1:1.15CT & 1CT:2CT	1.60 & 1.60	.675 / .600 / .340	T608
PE-68826	1:1/1.26 & 1:2CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68827	1:2CT & 2:1	1.60 & 1.60	.675 / .600 / .340	T608
PE-68828	1CT:1CT & 1CT:1CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68841	1CT:2CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68874	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68877	1CT:1CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68881	1CT:2.3CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68882	1:1.15CT & 1CT:1CT	1.60 & 1.60	.675 / .600 / .340	T608
PE-68884	1CT:1.36CT & 1CT:1.36CT	1.20 & 1.20	.675 / .600 / .340	T608
PE-68887	1CT:1.41CT & 1CT:1.41CT	1.20 & 1.20	.675 / .600 / .340	T608

#### 3.0 kV Isolation – Standard Temperature Range, SMT

T1030	1CT:1CT & 1CT:1CT	1.20 & 1.20	.950 / .745 / .395	T617
T1081	1CT:1CT & 1CT:1.5CT	1.20 & 1.20	.950 / .745 / .395	T617
T1031	1CT:1CT & 1CT:2CT	1.20 & 1.20	.950 / .745 / .395	T617
T1032	1CT:1.15CT & 1CT:1CT	1.60 & 1.60	.950 / .745 / .395	T617
T1033	1CT:1.15CT & 1CT:1.15CT	1.20 & 1.20	.950 / .745 / .395	T617
T1034	1CT:1.15CT & 1CT:2CT	1.50 & 1.20	.950 / .745 / .395	T617
T1035	1CS:1CS & 1CS:1.36CS	1.20 & 1.20	.950 / .745 / .395	T617
T1038	1CT:1CT & 1CT:1.36CT	1.20 & 1.20	.950 / .745 / .395	T617
T1036	1CT:1.36CT & 1CT:1.36CT	1.20 & 1.20	.950 / .745 / .395	T617
T1037	1CT:1.41CT & 1CT:1.41CT	1.20 & 1.20	.950 / .745 / .395	T617
T1080	1CT:1.41CT & 1CT:1.41CT	1.20 & 1.20	.950 / .745 / .395	T617
T1039	1CT:2CT & 1CT:1.08CT	1.20 & 1.20	.950 / .745 / .395	T617
T1043	1CT:2CT & 1CT:1.14CT	1.20 & 1.20	.950 / .745 / .395	T617
T1044	1CT:2CT & 1CT:1.36CT	1.20 & 1.20	.950 / .745 / .395	T617
T1045	1CT:2CT & 1CT:2CT	1.20 & 1.20	.950 / .745 / .395	T617
T1047	1CT:2.3CT & 1CT:2CT	1.20 & 1.20	.950 / .745 / .395	T617
T1049	1CT:1/1.26 & 1CT:2CT	1.50 & 1.20	.950 / .745 / .395	T617
T1082	1CT:2.42CT & 1CT:2.42CT	1.20 & 1.20	.950 / .745 / .395	T617
T1308	1CT:2.4CT & 1CT:1CT	1.20 & 1.20	.675 / .600 / .340	T666

### DUAL TRANSFORMER/CHOKE INTERFACE MODULES

#### 1.5 kV Isolation, Extended Temperature Range, SMT

T1207	1CT:2CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T660
T1208	1CT:2CT & 1CT:1.36CT	1.20 & 1.20	.675 / .600 / .340	T660
T1209	1CT:1.15CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T660
T1210	1CT:1.26CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T660
T1211	1CT:1.41CT & 1CT:1.15CT	1.20 & 1.20	.675 / .600 / .340	T660
T1212	1CT:1CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T660
T1213	1CT:1.15CT & 1CT:1CT	1.20 & 1.20	.675 / .600 / .340	T660
T1214	1CT:1.36CT & 1CT:1.36CT	1.20 & 1.20	.675 / .600 / .340	T660
T1215	1CT:1.41CT & 1CT:1.41CT	1.20 & 1.20	.675 / .600 / .340	T660
T1216	1CT:2.3CT & 1CT:2CT	1.20 & 1.20	.675 / .600 / .340	T660
T1217	1CT:2.42CT & 1CT:2.42CT	1.20 & 1.20	.675 / .600 / .340	T660
T1218	1CT:1CT & 1CT:1.36CT	1.20 & 1.20	.675 / .600 / .340	T660
T1219	1CT:2.4CT & 1CT:1CT	1.20 & 1.20	.675 / .600 / .340	T660
T1220	1CT:1CT & 1CT:1CT	1.20 & 1.20	.675 / .600 / .340	T660

### QUAD TRANSFORMER/CHOKE INTERFACE MODULES

#### 1.5 kV Isolation, Extended Temperature Range, SMT

T1176	1CT:2.4CT & 1CT:1CT	1.2	.690 / .630 / .225	T662
TX1192	1CT:2.42CT & 1CT:2.42CT	1.2	.690 / .630 / .225	T662
TX1193	1CT:2CT & 1CT:1CT	1.2	.690 / .630 / .225	T662
TX1194	1CT:1.15CT & 1CT:1.15CT	1.2	.690 / .630 / .225	T662
TX1195	1CT:1.41CT & 1CT:1.41CT	1.2	.690 / .630 / .225	T662
TX1196	1CT:2CT & 1CT:2CT	1.2	.690 / .630 / .225	T662
TX1197	1CT:2CT & 1CT:2CT	1.2	.690 / .630 / .225	T662
TX1198	1CT:2.3CT & 1CT:1CT	1.2	.690 / .630 / .225	T662
TX1199	1CT:1.36CT & 1CT:2CT	1.2	.690 / .630 / .225	T662
TX1300	1CT:1.36CT & 1CT:1CT	1.2	.690 / .630 / .225	T662
TX1301	1CT:1.15CT & 1CT:2CT	1.2	.690 / .630 / .225	T662
T1337	1CT:1CT & 1CT:1CT	1.2	.537 / .590 / .245	T665

### QUAD TRANSFORMERS (four transformers per package)

#### 1.5 kV Isolation, Standard Temperature Range, SMT

T1001	1:1 & 1:1.36	1.20 & 1.20	1.000 / .425 / .295	T615
T1005	1:1.267 & 1:1.58	1.20 & 1.20	1.000 / .425 / .295	T615
T1006	1:1 & 1:2CT	1.20 & 1.20	1.000 / .425 / .295	T615
T1007	1:1.15	1.20 & 1.20	1.000 / .425 / .295	T615
T1008	1:1.364 & 1:2	1.20 & 1.20	1.000 / .425 / .295	T615
T1009	1:1 & 1:1.265	1.20 & 1.20	1.000 / .425 / .295	T615
T1010	1:1.36CT	1.20 & 1.20	1.000 / .425 / .295	T615
T1016	1:1.15 & 1:2	1.20 & 1.20	1.000 / .425 / .295	T615
T1017	1:2.3 & 1:2	1.20 & 1.20	1.000 / .425 / .295	T615

### OCTAL TRANSFORMERS (eight transformers per package)

#### 1.5 kV Isolation, Standard Temperature Range, SMT

	Transmit	Receive			
T1063	1:1.36	1:1.36CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1064	1:1.14	1:1.14CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1065	1:2CT	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1066	1:2	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1067	1:1.36CT	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1068	1:2CT	1:1CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1069	1CT:1.41	1CT:1.41	1.20 & 1.20	1.125 / .640 / .230	T622
T1070	1:1.15	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1071	1:1/1.26	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1072	1:1.15	1:1.15	1.20 & 1.20	1.125 / .640 / .230	T622
T1073	1:2	1:2	1.20 & 1.20	1.125 / .640 / .230	T622
T1124	1:2CT	1CT:2	1.20 & 1.20	1.125 / .640 / .230	T622
T1125	1:1.70	1:1.36CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1129	1:1.36CT	1:1CT	1.20 & 1.20	1.125 / .640 / .230	T622
ST5179T	1CT:1	1:1CT	1.20 & 1.20	1.102 / .610 / .216	ST5179T

continued on next page

\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

SMT - Surface Mount Package    THH - Through Hole Package

## TRANSFORMERS, TRANSFORMER MODULES

### T1/E1/CEPT/SDN-Pri—SINGLE, DUAL

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
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#### OCTAL TRANSFORMERS (eight transformers per package)

1.5 kV Isolation, Standard Temperature Range, SMT (continued)

Transmit		Receive			
ST5180T	2CT:1	1:2.3CT	1.20 & 1.20	1.102 / .610 / .216	ST5180T
T1142	1:2.4	1:1	1.00 & 1.00	1.125 / .640 / .230	T622
T1145	1:2/2.4	1:0.79/1	1.00 & 1.00	1.125 / .640 / .230	T622
T1180	1:2.42	1:2.42	1.20 & 1.20	1.125 / .640 / .230	T622
T1181	1:2.1CT	1:2.1CT	1.20 & 0.60	1.125 / .640 / .230	T622
T1182	1:2.45CT	1:2.45CT	1.20 & 0.60	1.125 / .640 / .230	T622
T1078	1:1.08	1.08CT:1	1.20 & 1.20	1.125 / .640 / .230	T622

#### 1.5 kV Isolation, Extended Temperature Range, SMT

T1103	1:1.36	1:1.36CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1104	1:1.14	1:1.14CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1105	1:2CT	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1106	1:2	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1107	1:1.36CT	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1108	1:2CT	1:1CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1109	1CT:1.41	1CT:1.41	1.20 & 1.20	1.125 / .640 / .230	T622
T1110	1:1.15	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1111	1:1/1.26	1:2CT	1.20 & 1.20	1.125 / .640 / .230	T622
T1112	1:1.15	1:1.15	1.20 & 1.20	1.125 / .640 / .230	T622
T1113	1:2	1:2	1.20 & 1.20	1.125 / .640 / .230	T622
T1114	1:2CT	1CT:2	1.20 & 1.20	1.125 / .640 / .230	T622
T1226	1:1.5	1.41:1	1.00 & 1.00	1.125 / .640 / .230	T622
T1231	1:2.4	1:1	1.00 & 1.00	1.125 / .640 / .230	T622
TX1292	1:1.36	1:1	1.20 & 1.20	1.125 / .640 / .230	T622
TX1294	1:1CT	1:1CT	1.20 & 1.20	1.125 / .640 / .230	T622
TX1295	1:1.26CT	1:1.26CT	1.20 & 1.20	1.125 / .640 / .230	T622
TX1299	1:2.42	1:2.42	1.20 & 1.20	1.125 / .640 / .230	T622
TX1341	1:2	1:2	1.20 & 1.20	1.000 / .425 / .295	T671
TX1342	1:1.15	1:1.15	1.20 & 1.20	1.000 / .425 / .295	T671
TX1471	1:1	1:1	1.20 & 1.20	1.000 / .425 / .295	T671

### T1/E1 Protection Modules

#### OCTAL TRANSFORMER MODULES, 1.5 kV Isolation

Extended Temperature Range, Line Side Protection, SMT

T9030	1CT:2	1CT:1	1.2	1.255 / .852 / .305	T656
TX9031	1CT:2.4	1:1CT	1.2	1.255 / .852 / .305	T670

#### IC Side Protection, SMT

T9021	1:2.42	1:2.42	.6	1.125 / .640 / .275	T657
TX9020	1:2.42	1:2.42	1.2	1.125 / .640 / .275	T677
TX9022	1:2.42	1:2.42	1.2	1.125 / .640 / .275	T677
TX9023	1:2	1:2	1.2	1.255 / .852 / .305	T674

#### QUAD TRANSFORMER MODULE, 1.5 kV Isolation

Standard Temperature Range, IC & Line Side Protection, SMT

T9050	1CT:1CT	1CT:1CT	1.2	1.120 / 1.225 / .340	T676
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#### PulseJack<sup>1</sup>, 1.5 kV Isolation

Standard Temperature Range, Line Side Protection, THT

J1501F21	1:2.42	1:2.42	1.2	1.000 / .640 / .532	T667
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1. RJ-45 Connector with integrated magnetics

### T3/DS3/E3/STS-1—SINGLE, DUAL, SIX, OCTAL, TWELVE

Part Number	Turns Ratio	Primary Inductance OCL (µH MIN)	Package L/W/H (in.)*	Data Sheet
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#### SINGLE TRANSFORMERS

##### THT

PE-68629	1:1	40	.350 / .500 / .250	T606
PE-65966	1:1	40	.300 / .280 / .250	T606
PE-65663	1:1	40	.300 / .400 / .250	T606
PE-65969	1:2CT	19	.300 / .280 / .250	T606
PE-65664	1:2CT	35	.300 / .400 / .250	T606
PE-68630	1:2CT	19	.350 / .500 / .250	T606
PE-65779	1:4CT	200	.300 / .400 / .250	T606
PE-65856	1:1.73CT	50	.300 / .280 / .250	T606

### T3/DS3/E3/STS-1—SINGLE, DUAL, SIX, OCTAL, TWELVE

Part Number	Turns Ratio	Primary Inductance OCL (µH MIN)	Package L/W/H (in.)*	Data Sheet
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#### SINGLE TRANSFORMERS (continued)

##### SMT

PE-65967	1:1	40	.300 / .390 / .250	T606
PE-65662	1:1	45	.300 / .420 / .200	T606
PE-65968	1:2CT	19	.300 / .390 / .250	T606
PE-65661	1:2CT	35	.300 / .420 / .200	T606

#### SMT, Extended Temperature Range

T3001	1:1	100	.300 / .390 / .250	T619
T3002	1:2CT	40	.300 / .390 / .250	T619
T3011	1:1	100	.300 / .390 / .250	T619
T3012	1:2CT	40	.300 / .390 / .250	T619
T3027	1CT:1CT	40	.300 / .390 / .250	T619

#### DUAL TRANSFORMERS

##### SMT, Extended Temperature Range

T3020	1:2CT & 1:1	40 & 100	.505 / .375 / .245	T655
TX3025	1CT:1CT & 1:1	100 & 100	.505 / .375 / .245	T655
TX3026	1:2CT & 1:1	100 & 100	.505 / .375 / .245	T655

#### SIX TRANSFORMERS (Triple Port)

##### SMT, Extended Temperature Range

TX3036	1:1	100	.537 / .510 / .226	T672
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#### OCTAL TRANSFORMERS (Quad Port)

##### SMT - Standard Temperature Range

T3048	1:1	40	1.000 / .425 / .295	T663
T3049	1:2	19	1.000 / .425 / .295	T663

#### TWELVE TRANSFORMERS (Six Port)

##### SMT - Extended Temperature Range

TX3051	1:1	60	1.120 / .630 / .280	T668
TX3052	1:2	40	1.120 / .630 / .280	T668

### ISDN U-INTERFACE<sup>1</sup>

Part Number			Turns Ratio	OCL Line Side (mH MIN)	Package L/W/H (in.)*	Data Sheet
1.5-2.0 kV	2.5 kV	3 kV				

##### THT

PE-65575	—	PE-68669	1.65:1	13.0-18.0	1.100 / .750 / .430	T603
PE-65578	—	—	1.32:1	7.0-8.3	1.100 / .750 / .430	T603
PE-65579	—	—	2.00:1	25.5-28.5	1.100 / .950 / .450	T603
PE-65581	—	—	1.50:1	14.2-15.8	1.100 / .950 / .450	T603
PE-65583	PE-68631	—	1.50:1	25.6-28.4	1.100 / .950 / .450	T603
PE-65584	PE-68681	—	1.50:1	25.6-28.4	1.100 / .950 / .450	T603
PE-68628	PE-68668	—	1.25:1	26.5-29.5	1.100 / .950 / .450	T603
T4008	—	—	1.50:1	73.0-98.0	1.050 / .900 / 1.050	T616
PT4084	—	—	1:0.75:0.75	85.0	.800 / 1.020 / .675	PT4084
PT5031	—	—	1:1.25	14.5	.800 / 1.020 / .675	PT5031
PT5062	—	—	1:1.6CT	27.0	.800 / 1.020 / .675	PT5062
PT5065	—	—	1:1.33CT	27.0	.800 / 1.020 / .675	PT5065
T4022	—	—	1.6CS:1CT	8.41-2.60	.760 / .870 / .450	T625

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
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##### SMT

T4001	1.25:1	26.5-30.0	.760 / .870 / .500	T614
T4002	1.65:1	15.0-18.0	.760 / .870 / .500	T614
T4004	1.50:1	25.6-28.4	.760 / .870 / .500	T614
T4006	1.50:1	14.2-15.8	.760 / .870 / .500	T614
T4031	1.65CS:1CT	13.0-18.0	.695 / .530 / .485	T624
T4032	1.25CS:1CT	11.9-16.1	.695 / .530 / .485	T624
T4033	1.25CS:1CT	26.6-29.4	.695 / .530 / .485	T624
T4043	2CS:1CS	13.5-16.5	.695 / .530 / .485	T624
T4067	1.32CS:1	7.5-8.3	.695 / .530 / .485	T624

1. Echo Cancellation Hybrid units PE-36005 and PE-36005W are also available.

\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

SMT - Surface Mount Package THT - Through Hole Package



## TRANSFORMERS, TRANSFORMER MODULES

### ECHELON® & DIGITAL AUDIO SINGLE

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
<b>THT</b>				
PE-65948	1CT:1CT	3.5 - 6.5	.350 / .500 / .250	T602
PE-65612	1:1	2.5	.350 / .500 / .250	T601
<b>SMT</b>				
PE-65848	1CS:1CS	3.5 - 6.5	.480 / .600 / .340	T602
PE-65812	1:1	2.5	.480 / .600 / .340	T601

### DDS / SWITCHED 56

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
<b>SMT</b>				
T7002	1CT:1CT	40	.530 / .695 / .485	T629

### AUDIO / VOICE BAND

Part Number	Turns Ratio	Isolation Voltage	Package L/W/H (in.)*	Data Sheet
<b>SMT</b>				
T6003	1:1	1500	.530 / .695 / .485	T628

### ISDN S-INTERFACE MODULES—TRANSFORMER & CHOKE

Part Number	Turns Ratio	Pri. Inductance OCL (mH MIN)		Package L/W/H (in.)*	Data Sheet
		TXFMR	CHOKE		
<b>THT</b>					
T5011	1CT:1CT & 1CT:1CT	30	4.70	1.150 / .420 / .590	T632
T5012	1CT:2CT & 1CT:2CT	30	4.70	1.150 / .420 / .590	T632
T5013	1CT:2.5CT & 1CT:2.5CT	30	4.70	1.150 / .420 / .590	T632
T5015	1:2CT & 1:2CT	30	4.70	1.150 / .420 / .590	T632
<b>SMT</b>					
T5034	1CT:2CT & 1CT:2CT	30	4.70	1.170 / .660 / .320	T635
T5037	1CT:2.5CT & 1CT:2.5CT	30	4.70	1.170 / .660 / .320	T635
T5038	1CT:2CT & 1CT:2CT	30	0.47	1.170 / .660 / .320	T635
T5039	1CT:2.5CT & 1CT:2.5CT	30	0.47	1.170 / .660 / .320	T635
ST5201	1CS:2CS & 1CS:2CS	22	0.42	.987 / .575 / .340	ST5201
T5049	1CT:1CT & 1CT:1CT	30	4.70	1.170 / .660 / .320	T635

### ISDN S-INTERFACE—SINGLE, DUAL

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
<b>SINGLE TRANSFORMERS, 1.5 kV ISOLATION</b>				
<b>PCMCIA Type 2 (SMT)</b>				
T5002	1:1	22	.492 / .670 / .167	T631
T5003	1:2	22	.492 / .670 / .167	T631
T5004	1:2.5	22	.492 / .670 / .167	T631
<b>SMT</b>				
T5020	1:2	22	.550 / .760 / .390	T633
T5021	1:1	22	.550 / .760 / .390	T633
T5022	1:2.5	22	.550 / .760 / .390	T633
T5023	1:2	22	.550 / .760 / .390	T633
T5033	1:2	22	.550 / .760 / .390	T633

### SINGLE TRANSFORMERS, 2.0 kV ISOLATION

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
<b>THT</b>				
PE-64993	1:1	22	.560 / .560 / .400	T604
PE-64994	1:1.8	22	.560 / .560 / .400	T604
PE-64995	1:2	22	.560 / .560 / .400	T604
PE-64996	1:2.5	22	.560 / .560 / .400	T604
PE-64998	1:2.5	22	.560 / .560 / .400	T604
PE-64999	1:2	22	.560 / .560 / .400	T604

### DUAL TRANSFORMERS, 2.0 kV ISOLATION

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
<b>THT</b>				
PE-65492	1:1 & 1:2	22	.920 / .560 / .400	T604
PE-65493	1:1 & 1:1	22	.920 / .560 / .400	T604
PE-65495	1:2 & 1:2	22	.920 / .560 / .400	T604
PE-65498	1:2.5 & 1:2.5	22	.920 / .560 / .400	T604
PE-65499	1:2 & 1:2	22	.920 / .560 / .400	T604

### ISDN S-INTERFACE—SINGLE, DUAL (continued)

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
<b>DUAL TRANSFORMERS, 2.0 kV Isolation (continued)</b>				
<b>SMT</b>				
PE-65792	1:1 & 1:2	22	.950 / .720 / .390	T604
PE-65793	1:1 & 1:1	22	.950 / .720 / .390	T604
PE-65795	1:2 & 1:2	22	.950 / .720 / .390	T604
PE-65798	1:2.5 & 1:2.5	22	.950 / .720 / .390	T604
PE-65799	1:2 & 1:2	22	.950 / .720 / .390	T604
ST5048	1CS:2.5CS & 1CS:2.5CS	22	.987 / .575 / .340	ST5048
ST5069	1CS:2CS & 1CS:2CS	22	.987 / .575 / .340	ST5069

### Low Profile, SMT

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
T5005	1:2.5 & 1:2.5	22	.950 / .720 / .295	T613
T5006	1:2 & 1:2	22	.950 / .720 / .295	T613
T5007	1:2 & 1:2	22	.950 / .720 / .295	T613
T5008	1:1 & 1:1	22	.950 / .720 / .295	T613
T5009	1:1 & 1:2	22	.950 / .720 / .295	T613
T5010	1:1.8 & 1:1.8	22	.950 / .720 / .295	T613

### SINGLE TRANSFORMERS, 3.0 kV ISOLATION

#### Reinforced Insulation per IEC 950, THT

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
PE-68992	1:2CT	22	.750 / .750 / .500	T604
PE-68993	1:1	22	.750 / .750 / .500	T604
PE-68995	1:2	22	.750 / .750 / .500	T604
PE-68998	1:2.5	22	.750 / .750 / .500	T604
PE-68999	1:2	22	.750 / .750 / .500	T604
T5035	1CT:2CT	30	.578 / .648 / .565	T636

#### Reinforced Insulation per IEC 950, SMT

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
T5024	1:2	22	.550 / .760 / .420	T633
T5025	1:1	22	.550 / .760 / .420	T633
T5026	1:2.5	22	.550 / .760 / .420	T633
T5036	1:2	22	.550 / .760 / .420	T633

### DUAL TRANSFORMERS, 3.0 kV ISOLATION

Part Number	Turns Ratio	Primary Inductance OCL (mH MIN)	Package L/W/H (in.)*	Data Sheet
<b>SMT</b>				
T5042	1:2 & 1:2	22	1.092 / .726 / .430	T638
T5043	1:2.5 & 1:2.5	22	1.092 / .726 / .430	T638

### SONET/SDH (STM-1/E4/CMI)

Part Number	Turns Ratio	Primary Inductance OCL (μH MIN)	Package L/W/H (in.) <sup>1</sup>	Data Sheet
<b>DUAL</b>				
<b>SMT</b>				
A7802	1:1	42	.500 / .295 / .220	A103
ST6200T	1CT:1CT	46	.457 / .260 / .233	A105

1. **SOIC** = 50 mil pitch leads. Length and width are MAX package dimensions. Height dimensions include the wash area.

\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).  
**SMT** - Surface Mount Package    **THT** - Through Hole Package

# TELECOM IC CROSS REFERENCE



## IC CROSS REFERENCE

### ISDN U-Interface

IC Manufacturer/ IC Part Number	Recommended Transformer					
	1.5 kV		2 kV		2.5 kV	3 kV
	THT	SMT	THT	SMT		
<b>Alcatel (Microelectronics)</b>						
MTC20276	—	T4043	—	—	—	—
<b>AKM</b>						
AK5204	T4022	—	—	—	—	—
<b>Infineon Technologies (Siemens)</b>						
PEB 2091	PT5031	T4031	PE-65575	T4002	—	PE-68669
PEB 8091/8191	—	T4031	PE-65575	T4002	—	PE-68669
PEB 2090/20901	—	T4067	PE-65578	—	—	—
PEB 24902/11	—	T4031	PE-65575	T4002	—	PE-68669
PSB 21910/11	—	T4031	PE-65575	T4002	—	PE-68669
PEB 2491	—	T4032	—	—	—	—
PEB 20901	—	T4067	PE-65578	—	—	—
PEB 2095	—	PE-68616	—	—	—	—
PSB 2196	—	PE-68617	—	—	—	—
<b>Lucent Technologies</b>						
T7256	—	—	—	—	—	—
T7234	PT4084	—	T4008	—	—	—
T7237	—	—	—	—	—	—
<b>Motorola</b>						
MC145472	—	—	PE-65579	—	—	—
MC145572	PT5062	T4033	PE-68628 <sup>1</sup>	T4001 <sup>2</sup>	PE-68668	—
<b>National Semiconductor</b>						
TP3410	PT5065	—	PE-65583	—	PE-68631	—
	—	—	PE-65584	T4004	—	—
<b>Thomson</b>						
SD 5411	—	—	PE-65581	T4006	PE-68631	—

1. Small package for North American applications available. See T618 data sheet.  
2. Suitable for use in North America only.

### Echelon® & Digital Audio

IC Manufacturer	IC Part Number	Single	
		SMT	THT
<b>Echelon®</b>	3120™, 3150™ 1.25 Mbps	PE-65848	PE-65948
<b>AKM</b>	AK4101	PE-65812	PE-65612
	AK4102	PE-65812	PE-65612
	AK4103	PE-65812	PE-65612
<b>Crystal</b>	CS8401	PE-65812	PE-65612
<b>Semiconductor</b>	CS8402	PE-65812	PE-65612
	CS8403	PE-65812	PE-65612
	CS8404	PE-65812	PE-65612
<b>Realtek</b>	ALS300+	PE-65812	PE-65612

### DDS/Switched 56

IC Manufacturer	IC Part Number	Recommended Transformer
		Dual SMT
<b>Intel (Level One)</b>	LXT 441	T7002

### SONET/SDH (STM-1/E4/CMI) DUAL TRANSFORMERS

IC Manufacturer	IC Part Number	Recommended Transformer
		Single SMT
<b>AMCC</b>	S3015, S3016, S3031B	A7802
<b>Intel (Level One)</b>	LXT6155	ST6200T

### ISDN S-Interface

IC Manufacturer/ Part Number	Dual SMT	Single THT	Dual THT	Dual SMT Module 1.5 kVrms	THT Module w/ Choke 1.5 kVrms	Single THT 3 kVrms	Dual SMT 3 kVrms	PCMCIA
	TX & RX	TX & RX	TX & RX	TX & RX	TX & RX	TX & RX	TX & RX	TX & RX
<b>Alcatel (Microelectronics)</b>								
MTC2072, MTC20172	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
MTC20276/77	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
<b>AMD</b>								
AM79C30/32	PE-65799/T5006 <sup>LP</sup>	PE-64999	PE-65499	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
<b>Cologne Chip Design</b>								
HFC-SXX	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68999/T5035	T5042	T5003
<b>Infineon Technology (Siemens)</b>								
PEB2080/81/84/85/86	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
PSB2115/86	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
PSB21381/82/83/84	PE-65793/T5008 <sup>LP</sup> /ST5048	PE-64993	PE-65493	T5049	T5011	PE-68993	—	T5002
PEB3018/86, PSB3186	PE-65793/T5008 <sup>LP</sup> /ST5048	PE-64993	PE-65493	T5049	T5011	PE-68993	—	T5002
PEB8090/91, PEB8190/91	—	—	—	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	—
<b>Intel</b>								
29C53	PE-65795/T5010 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
<b>Lucent Technologies</b>								
T7234, T7254	PE-65798/T5005 <sup>LP</sup>	PE-64998	PE-65498	T5037/T5039	T5013	PE-68998	T5043	T5004
T7250/56/59	PE-65798/T5005 <sup>LP</sup>	PE-64998	PE-65498	T5037/T5039	T5013	PE-68998	T5043	T5004
T7901/03	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
<b>Mitel</b>								
MT8930/31	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003

NOTE: LP = Low Profile

ISDN-S Interface continued on next page

# TELECOM IC CROSS REFERENCE



## IC CROSS REFERENCE

### ISDN S-Interface (continued)

IC Manufacturer/ Part Number	Dual SMT	Single THT	Dual THT	Dual SMT Module 1.5 kVrms	THT Module w/ Choke 1.5 kVrms	Single THT 3 kVrms	Dual SMT 3 kVrms	PCMCIA
	TX & RX	TX & RX	TX & RX	TX & RX	TX & RX	TX & RX	TX & RX	TX & RX
<b>Motorola</b>								
MC14574/475	PE-65793/T5008 <sup>LP</sup> /ST5048	PE-64993	PE-65493	T5049	T5011	PE-68993	—	T5002
MC145574	PE-65798/T5005 <sup>LP</sup>	PE-64998	PE-65498	T5037/T5039	T5013	PE-68998	T5043	T5004
<b>National Semiconductor</b>								
TP3420/21	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
<b>SGS Thomson</b>								
ST5420/21	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003
<b>Yamaha</b>								
7405B, YTD421	PE-65795/T5007 <sup>LP</sup> /ST5069	PE-64995	PE-65495	T5034/T5038/ST5201	T5015/T5012	PE-68995/T5035	T5042	T5003

NOTE: LP = Low Profile

### T3/DS3/E3/STS-1

IC Manufacturer/ IC Part Number	12 Xfms Ext. Temp.	Octal Xfms	6 Xfms Ext. Temp.	Dual SMT Ext. Temp.	Single SMT				Single THT		Single THT 3 kVrms	
					Standard Temp.		Extended Temp.		TX	RX	TX	RX
					TX	RX	TX	RX				
<b>Cicada Semiconductor</b>												
CIS7512/3/4/6/8	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
<b>Exar</b>												
XRT7295/7295E	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	—	T3001	—	PE-65966	—	PE-68629
XRT7296/7298	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	T3001	—	PE-65966	—	PE-68629	—
XRT73L00/Q2/O3/O4	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
XRT7300/7302	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
<b>Infineon Technologies</b>												
PEB3452/3460	—	—	—	—	—	—	T3027	T3011/T3001	—	—	—	—
<b>Lucent (Agere)</b>												
T7296	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
<b>Maxim (Dallas Semi)</b>												
DS3150	TX3052	T3049	—	—	PE-65968	PE-65968	T3002	T3002	PE-65969	PE-65969	PE-68630	PE-68630
<b>Mindspeed (Conexant)</b>												
CN28333/332/331	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
M28333/332/331	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
M28335	TX3051	T3048	TX3036	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
<b>TDK Semiconductor</b>												
78P2241/2/3/4	TX3051/TX3052	TX3045	T3020 or TX3026	PE-65968	PE-65967	T3002	T3001	PE-65969	PE-65966	PE-68630	PE-68629	—
78P2241B	TX3051/TX3052	TX3045	T3020 or TX3026	PE-65968	PE-65967	T3002	T3001	PE-65969	PE-65966	PE-68630	PE-68629	—
78P7200/7200L	TX3051/TX3052	TX3045	T3020 or TX3026	PE-65968	PE-65967	T3002	T3001	PE-65969	PE-65966	PE-68630	PE-68629	—
78P7203L/7204L	TX3051/TX3052	TX3045	T3020 or TX3026	PE-65968	PE-65967	T3002	T3001	PE-65969	PE-65966	PE-68630	PE-68629	—
78P2362/2361	TX3051/TX3052	TX3045	T3020 or TX3026	PE-65968	PE-65967	T3002	T3001	PE-65969	PE-65966	PE-68630	PE-68629	—
<b>Transwitch</b>												
MRT TXC-02050	TX3051/TX3052	TX3045	—	T3020 or TX3026	PE-65968	PE-65967	T3002	T3001	PE-65969	PE-65966	PE-68630	PE-68629
ART TXC-02020	TX3051	T3048	—	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
ARTE TXC-02021	TX3051	T3048	—	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
DART TXC-2030, DS3	TX3051	T3048	—	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
DART TXC-2030, E3	TX3051/TX3052	T3049/T3048	—	T3020 or TX3026	PE-65968	PE-65967	T3002	T3001	PE-65969	PE-65966	PE-68630	PE-68629
DS3LIM-SN, TXC20153G	TX3051	T3048	—	TX3025	PE-65967	PE-65967	T3001	T3001	PE-65966	PE-65966	PE-68629	PE-68629
E3LIM TXC-20163	TX3051 /TX3052	T3049 /T3048	—	T3020 or TX3026	PE-65968	PE-65967	T3002	T3001	PE-65969	PE-65966	PE-68630	PE-68629

SMT - Surface Mount Package THT - Through Hole Package

# TELECOM IC CROSS REFERENCE



## IC CROSS REFERENCE: T1/E1/CEPT/ISDN-Pri FOR SINGLE & MULTI-PORT PORT ICs

IC MFR.	IC PART NO. / COMMENT	DUAL SMT (BH)		DUAL SMT (AN)		DUAL SMT XFMR/CHOKE	SINGLE THT		
		STD TEMP	EXT TEMP	STD TEMP	EXT TEMP	EXT TEMP	STANDARD TEMP		
		TX & RX	TX & RX	TX & RX	TX & RX	TX & RX	TX	RX	
Cirrus Logic (Crystal)	61318 120 E1	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	61318 75 E1	---	---	---	---	---	T1229	PE-64936	
	61577 T1 & E1	PE-65861	T1090	PE-68861	PE-68841	T1207	PE-65351	PE-65351	
	61304A/5A/535A/574A,/75 T1	PE-65865	T1076	PE-68865	PE-68825	T1209	PE-65388	PE-65351	
	61304A/5A/535A/574A,/75 75 E1	PE-65866	T1092	PE-65866	PE-68826	T1212	PE-65389	PE-65351	
	61304A/5A/535A/574A,/75 120 E1	PE-65866	T1092	PE-65866	PE-68826	T1210	PE-65389	PE-65351	
	61884 T1/E1/J1	PE-65861	TX1188	PE-68861	PE-68841	T1207	PE-65351	PE-65351	
	61582, 61583 PE-65870	T1093	PE-68874	PE-68874	T1211	PE-65388	PE-65388		
	61310, 61581 PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936		
	61310, 61581 Host T1022	T1077	T1022	---	---	PE-65351	PE-65351		
	61880, 61881 PE-65865	T1076	PE-68865	PE-68825	T1209	PE-65388	PE-65351		
	61584/84A IQ3	PE-65861	T1090	PE-68861	PE-68841	T1207	PE-65351	PE-65351	
61584/82/83/A IQ5	PE-65870	T1093	PE-68874	PE-68874	T1211	PE-65388	PE-65388		
Exar	T5683A, 59L91	PE-65861	T1090	PE-68861	PE-68841	T1207	PE-65415	PE-65415	
	T5894,T5897,T5997	PE-65861	T1090	PE-65861	PE-68841	T1207	PE-65415	PE-65415	
	T5793/94	PE-65866	T1092	PE-68866	PE-68826	T1220	PE-65389	PE-64934	
	81L27,82L24,82D20	PE-65861	T1090	PE-65861	PE-68841	T1207	PE-65415	PE-65415	
	83L30/34/38	PE-65861	T1090	PE-65861	PE-68841	T1207	PE-65415	PE-65415	
T5684,T7288,82D20	PE-65862	T1091	PE-68862	PE-68822	T1208	PE-64937	PE-65351		
IDT	IDT82V2048, 82V2058	TX1188	TX1188	PE-68861	PE-68841	T1207	PE-65415	PE-65415	
Infineon Technologies (Siemens)	PEB 2254/55 E1/T1 & J1	PE-68786	T1095	PE-68887	PE-68887	T1215	---	---	
	PEB 2254/55 E1/T1 & J1	T1023	T1096	PE-68887	PE-68887	T1215	---	---	
	PEB 22504, 22554, 2256 3.3V	T1144	T1144	---	---	T1219	---	---	
	PEB22554 75 E1	T1146	T1146	---	---	---	---	---	
Intel (Level One)	LXT 300/301	PE-65861	T1090	PE-68861	PE-68841	T1207	PE-65351	PE-65351	
	LXT 304/305/307 T1,E1	PE-65861	T1090	PE-68861	PE-68841	T1207	PE-65351	PE-65351	
	LXT 304/305/307 T1	PE-65865	T1076	PE-68865	PE-68825	T1209	PE-65388	PE-65351	
	LXT 304/305/307 75E1,120E1	PE-65866	T1092	PE-68866	PE-68826	T1212	PE-65389	PE-65351	
	LX T 304/305/307 DSX-1, D4	T1122	---	PE-68881	PE-68881	T1216	PE-65558	PE-65351	
	LXT 310/317/318	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	LXT 312/ 313/ 315	---	---	---	---	---	PE-64933	PE-64936	
	LXT 331 T1,E1	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	LXT 331, LXT 332	PE-65861	T1090	PE-68861	PE-68841	T1207	PE-65351	PE-65351	
	LXT 331, LXT 332	T1122	---	---	PE-68881	T1216	PE-65558	PE-65351	
	LXT 331, LXT 332	PE-65865	T1076	PE-68865	PE-68825	T1209	PE-65388	PE-65351	
	LXT 334, LXT 335 T1/E1	PE-65861	T1090	PE-68861	PE-68841	T1207	PE-65351	PE-65351	
	LXT 334, LXT 335 120/75 E1	PE-65862	T1091	PE-68862	PE-68822	T1218	PE-65586	PE-65351	
	LXT 334, LXT 335 75 E1	PE-65866	T1092	PE-68866	PE-68826	---	PE-65389	PE-65351	
	LXT 334, LXT 335	T1022	T1077	---	---	---	T1054	PE-64936	
	LXT 336	PE-65861	T1090	PE-68828	PE-68828	T1220	---	PE-65351	
	LXT 350, LXT 351, LXT 359 T1,E1	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	LXT 350, LXT 351	PE-65865	T1076	PE-68865	PE-68825	T1209	PE-65388	PE-65351	
	LXT 350, LXT 351	T1122	---	---	PE-68881	T1216	PE-65558	PE-65351	
	LXT 360/361/362/363 T1,E1	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	LXT 360/361/362/363 T1,E1	PE-65865	T1076	PE-68865	PE-68825	T1209	PE-65388	PE-65351	
	LXT 360, LXT361 120 E1	T1122	---	---	PE-68881	T1216	PE-65558	PE-65351	
	LXT 380/381/384/386/388 T1/E1	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	LXT 380/381/384/386/388 T1/E1	PE-65861	T1090	PE-68861	PE-68841	---	PE-65351	PE-65351	
	LXT 3104, LXT 3108	PE-65861	T1090	PE-68861	PE-68841	T1220	PE-64936	PE-64936	
	LXT 3104, LXT 3108	TX1099	TX1099	---	---	---	---	---	
	Agere (Lucent)	T7288, T290A CEPT	PE-65862	T1091	PE-68862	PE-68822	T1208	PE-65586	PE-65415
		T7289A DS1	PE-65865	T1076	PE-68865	PE-68825	T1209	PE-65379	PE-65351
T7630,T7688, T7690, T7698 CEPT		---	---	PE-68884	PE-68884	T1214	PE-65586	PE-65586	
T7630,T7689, T7690, T7698 DS1		PE-65870	T1093	PE-68874	PE-68874	T1211	PE-65379	PE-65379	
T7693,T7697 CEPT		T1137	TX1287	---	---	T1217	---	---	
TLIU04C1 DS1		PE-65870	T1093	PE-68874	PE-68874	T1211	PE-65379	PE-65379	
TLIU04C1 CEPT		---	---	PE-68884	PE-68884	T1214	PE-65586	PE-65586	
Maxim (Dallas)	DS2196,DS2155,DS2149	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	DS2151/2152/2153/2154	PE-65865	T1076	PE-68865	PE-68825	T1213	PE-65388	PE-64936	
	DS2151/2152/2153/2154	T1136	T1091	PE-68862	PE-68822	T1218	PE-65586	PE-64936	
	DS2148/Q48/Q348 3V	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	DS2148/Q48 5V	T1136	T1091	PE-68862	PE-68822	T1218	PE-65586	PE-64936	
	DS21352/Q352, DS21354/Q354	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64936	
	DS21552/Q552, DS21554/Q554	PE-65865	T1076	PE-68865	PE-68825	T1213	PE-65388	PE-64936	
	DS21552/Q552, DS21554/Q554	T1136	T1091	PE-68862	PE-68822	T1218	PE-65586	PE-64936	
	BT8510 T1/E1	PE-65866	T1092	PE-68866	PE-68826	T1212/T1210	PE-65389	PE-65351	
BT8510 T1/E1	T1021	T1092	T1021	PE-68826	T1212/T1210	PE-65389	PE-65351		
Mindspeed (Conexant)	CN8380/28380	---	---	---	---	---	---	---	
	BT8370/5/6 Better RI	T1190	T1091	PE-68862	PE-68822	T1218	PE-64937	PE-64936	
	BT8370/5/6 Low Power	PE-65865	T1076	---	PE-68825	T1213	PE-65388	PE-64936	
	PM4341/6341/4314	PE-65862	T1091	PE-68862	PE-68822	T1208	PE-64937	PE-65351	
PMC-Sierra	PM4318/4319	PE-65861	T1090	PE-68861	PE-68841	T1207	PE-65351	PE-65351	
	PM4351/4354	T1137	TX1287	---	---	T1217	---	---	
	COMET	---	---	---	---	---	---	---	
Zarlink (Mitel)	MT9071, MT9076	T1137	TX1287	---	---	T1217	---	---	
	MT9076, MT9075	T1144	T1144	---	---	T1219	---	---	
	MT9074, MT9075	PE-68678	T1094	PE-68877	PE-68877	T1212	PE-65351	PE-64934	
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# TELECOM IC CROSS REFERENCE



## IC CROSS REFERENCE: T1/E1/CEPT/ISDN-PrI FOR SINGLE & MULTI-PORT PORT ICs

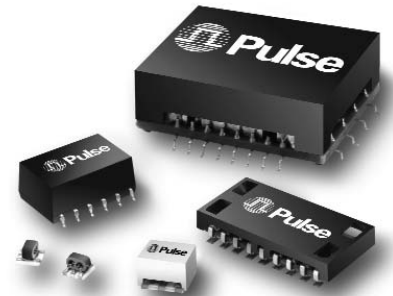
SINGLE THT		DUAL THT		REINFORCED 3 kVrms			QUAD SMT		OCTAL SMT	PROTECTION MODULES		
EXTENDED TEMP		STD TEMP	EXT TEMP	STANDARD TEMP		DUAL SMT	STANDARD TEMP		STD TEMP	EXT TEMP	STD TEMP	EXT TEMP
TX	RX	TX	RX	TX	RX	TX & RX	TX	RX	TX & RX	TX & RX	TX & RX	TX & RX
PE-65771	PE-65778	PE-64951	PE-65568	PE-65835	PE-65835	T1031	T1006	T1006	T1068	T1108	—	—
T1229	PE-65778	—	—	PE-68646	PE-65835	—	T1005	T1006	—	—	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-65770	PE-65771	PE-65565	PE-65567	PE-65838	PE-65835	T1034	T1007	T1006	T1070	T1110	—	—
PE-68664	PE-65771	PE-65566	PE-65568	PE-65839	PE-65835	T1049	T1009	T1006	T1068	T1108	—	—
PE-68664	PE-65771	PE-65566	PE-65568	PE-65839	PE-65835	T1049	T1009	T1006	T1071	T1111	—	—
PE-65771	PE-65771	PE-64951	—	PE-65838	PE-65835	T1045	T1006	T1006	T1073	T1113	—	—
PE-65770	PE-65770	—	—	PE-65838	PE-65838	T1033	T1007	T1007	T1064	T1104	—	—
PE-65771	—	PE-64951	PE-65568	PE-65835	PE-65835	T1031	T1006	T1006	T1068	T1108	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1081	—	—	—	—	—	—
PE-65770	PE-65771	PE-65565	PE-65567	PE-65838	PE-65835	T1034	T1007	T1006	T1070	T1110	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-65770	PE-65770	—	—	PE-65838	PE-65838	T1033	T1007	T1007	T1064	T1104	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-68664	PE-65778	PE-65566	PE-65568	PE-65839	PE-65834	T1049	T1009	T1009	T1071	T1111	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-65340	PE-65771	PE-64952	PE-65774	PE-65837	PE-65835	T1044	T1008	T1008	T1067	T1107	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1124	T1114	—	—
—	—	—	—	—	PE-68788	PE-68788	T1037	—	T1069	T1109	—	—
—	—	—	—	—	PE-68788	PE-68788	T1080	—	T1069	T1109	—	—
—	—	—	—	—	—	—	—	—	T1142	T1231	—	TX9031
—	—	—	—	—	—	—	—	—	—	T1161	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-65770	PE-65771	PE-65565	PE-65567	PE-65838	PE-65835	T1034	T1016	T1016	T1070	T1110	—	—
PE-68664	PE-65771	PE-65566	PE-65568	PE-65839	PE-65835	T1049	T1009	T1009	T1071	T1111	—	—
—	—	—	—	—	—	T1047	T1017	T1017	—	—	—	—
PE-65771	PE-65778	PE-64954	—	PE-65835	PE-65834	T1031	T1006	T1006	T1068	T1108	—	—
PE-68600	PE-65778	—	PE-64950	PE-65836	PE-65834	—	—	—	—	—	—	—
PE-65771	PE-65778	PE-64954	—	PE-65835	PE-65834	T1031	T1006	T1006	T1068	T1108	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
—	—	—	—	—	—	T1047	T1017	T1017	—	—	—	—
PE-65770	PE-65771	PE-65565	PE-65567	PE-65838	PE-65835	T1034	T1016	T1016	T1070	T1110	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1065	T1105	—	—
PE-65340	PE-65771	PE-64952	PE-65771	PE-65832	PE-65835	T1035	T1001	T1001	T1067	T1107	—	—
PE-68664	PE-65771	PE-65566	PE-65568	PE-65839	PE-65835	T1049	T1009	T1009	T1071	T1111	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	PE-65778	PE-64951	—	—	PE-65835	T1030	—	T1006	T1065	T1105	—	—
PE-65771	PE-65778	PE-64954	—	PE-65835	PE-65834	T1031	T1006	T1006	T1068	T1108	—	—
PE-65770	PE-65771	PE-65565	PE-65567	PE-65838	PE-65835	T1034	T1016	T1016	T1070	T1110	—	—
—	—	—	—	—	—	T1047	T1017	T1017	—	—	—	—
PE-65771	PE-65778	PE-64954	—	PE-65835	PE-65834	T1031	T1006	T1006	T1068	T1108	—	—
PE-65770	PE-65771	PE-65565	PE-65567	PE-65838	PE-65835	T1034	T1016	T1016	T1070	T1110	—	—
—	—	PE-65565	—	—	—	T1047	T1017	T1017	—	—	—	—
PE-65771	PE-65778	PE-64954	—	PE-65835	PE-65834	T1031	T1006	T1006	T1068	T1108	T9030	T9030
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1124	T1114	T9030	T9030
PE-65778	PE-65778	PE-64951	—	PE-65835	PE-65835	T1030	T1006	T1006	T1068	T1108	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
PE-65340	PE-65771	PE-64952	PE-65774	PE-65832	PE-65835	T1044	T1008	T1008	T1067	T1107	—	—
PE-65770	PE-65771	PE-65565	PE-65567	PE-65838	PE-65835	T1034	T1007	T1006	T1070	T1110	—	—
PE-65340	PE-65340	—	—	PE-65832	PE-65832	T1036	T1010	T1010	T1063	T1103	—	—
PE-65770	PE-65770	—	—	PE-65838	PE-65838	T1033	T1007	T1007	T1064	T1104	—	—
—	—	—	—	—	—	—	—	—	—	T1180	—	—
PE-65770	PE-65770	—	—	PE-65838	PE-65838	T1033	T1007	T1007	T1064	T1104	—	—
PE-65340	PE-65340	—	—	PE-65832	PE-65832	T1036	T1010	T1010	T1063	T1103	—	—
PE-65771	PE-65778	PE-64951	PE-65568	PE-65838	PE-65838	T1031	T1006	T1006	T1068	T1108	—	—
PE-65770	PE-65778	PE-65565	PE-65567	PE-65838	PE-65834	T1032	T1007	T1006	T1070	T1110	—	—
PE-65340	PE-65778	PE-64952	PE-65774	PE-65832	PE-65834	T1038	T1001	T1001	TX1292	TX1292	—	—
PE-65771	PE-65778	PE-64951	PE-65568	PE-65838	PE-65838	T1031	T1006	T1006	T1068	T1108	—	—
PE-65340	PE-65778	PE-64952	PE-65774	PE-65832	PE-65834	T1038	T1001	T1001	TX1292	TX1292	—	—
PE-65771	PE-65778	PE-64951	PE-65568	PE-65838	PE-65838	T1031	T1006	T1006	T1068	T1108	—	—
PE-65770	PE-65778	PE-65565	PE-65567	PE-65838	PE-65834	T1032	T1007	T1006	T1070	T1110	—	—
PE-65340	PE-65778	PE-64952	PE-65774	PE-65832	PE-65834	T1038	T1001	T1001	TX1292	TX1292	—	—
PE-68664	PE-65771	PE-65566	PE-65568	PE-65839	PE-65835	T1049	T1009	T1006	T1071	T1111	—	—
PE-68664	PE-65771	PE-65566	PE-65568	PE-65839	PE-65835	T1049	T1009	T1006	T1071	T1111	—	—
—	—	—	—	—	—	—	T1006	T1006	T1124	T1114	—	—
PE-65340	PE-65771	PE-64952	PE-65774	PE-65832	PE-65834	T1038	T1006	T1001	T1067	T1107	—	—
PE-65770	PE-65771	PE-65565	PE-65567	PE-65838	PE-65834	T1032	T1006	T1007	T1070	T1110	—	—
PE-65340	PE-65771	PE-64952	PE-65774	PE-65832	PE-65835	T1044	T1008	T1008	T1067	T1107	—	—
PE-65771	PE-65771	PE-64951	—	PE-65835	PE-65835	T1045	T1006	T1006	T1073	T1113	—	TX9023
—	—	—	—	—	—	T1082	—	—	T1180	TX1299	T9021	TX9020
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	T1180	—	—	—
—	—	—	—	—	—	—	—	—	T1142	T1231	—	—
PE-65771	PE-65778	PE-64954	PE-65568	PE-65835	PE-65834	T1031	—	—	T1068	T1108	—	—

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# BROADBAND RF & CABLE



Pulse develops all the necessary magnetic components for use in hybrid fiber coax (HFC) equipment, cable modems, set-top boxes and other RF applications. Components include transformers/baluns, low-pass filters, diplex filters, directional couplers and RF splitter/combiners. These surface mount and through hole components have minimal insertion loss and excellent return loss to ease the development and manufacture of today's RF network equipment.



## RF, HFC & CATV APPLICATIONS

Part Number	In/Out Impedance	Passband (MHz)	Insertion Loss (dB MAX)	Return Loss (dB MIN)	Data Sheet
<b>Low Pass Filters</b>					
B5004	75 Ω	5-42	1.0	18.0	B907
B5005	75 Ω	5-65	1.0	17.5	B907
C5001	150 Ω	1-50	1.2	15.0	C209
C5003	150 Ω	1-80	1.2	15.0	C209
C5005	75 Ω	1-59.5	1.0	15.0	C209
CX5013	75 Ω	1-65	1.5	15.0	C209
C5002	50 Ω	1-49	1.0	16.0	C208

Part Number	Frequency <sup>1</sup> (MHz)	Insertion Loss (dB)	Return Loss (dB)	Data Sheet
<b>Diplex Filters</b>				
SF9023	5-42/52-750	<1.5	18 or better	C202
C6001	5-42/52-870	<1.0	20 or better	C204
CX6002	5-42/54-864	<1.5	14 / 9 1	C205
CX6007	5-42/88-864	<1.0	14 or better	C211
CX6006	5-65/85-870	<1.2	18 or better	C213
CX6008	5-65/85-864	1.0 TYP	14 / 9 1	C216

1. Low Pass Port/High Pass Port

Part Number	Frequency (MHz)	Z (Ω)	Coupling Nom. (dB ±0.5)	Mainline Loss (dB TYP)	Data Sheet
<b>Directional Couplers</b>					
A5807T	5 - 900	75	10.0	1.1	A102
A5808T	5 - 900	75	7.5	1.6	A102
A5809T	5 - 900	75	12.0	0.9	A102
A5816T	5 - 900	75	16.0	0.8	A102
A5908T	5 - 900	75	7.5	1.6	A102
A5910T	5 - 900	75	10.0	1.1	A102
A5912T	5 - 900	75	12.0	0.9	A102
A5916T	5 - 900	75	16.0	0.8	A102
C3027	5 - 900	75	16.0	0.6	C207
CX3039	5 - 1000	75	20.0	0.5	C221

## FIBRE CHANNEL (SAN)

Part Number	Turns Ratio	Style <sup>1</sup>	Package L/W/H (in.) <sup>2</sup>	Data Sheet
<b>Dual Serial Data Interface Transformers</b>				
A6801	1CT:1CT	16-pin SOIC	.500 / .295 / .220	A100
A6802	1:1	16-pin SOIC	.500 / .295 / .220	A100
PE-65507	1:1	16-pin SOIC	.500 / .270 / .220	A101
PE-65508	1:1	16-pin SOIC	.500 / .270 / .220	A101

1. SOIC = 50 mil pitch lead spacing

2. Length and width are MAX package dimensions. Height dimension includes the wash area.

Part Number	Frequency Range	Isolation (dB TYP)	Return Loss (TYP)	Insertion Loss (dB TYP)	Data Sheet
<b>RF Splitter/Combiners: 2-Way 0°er/Combiners: 2-Way 0°</b>					
CX4004	5-65 MHz	40	30	0.22	C212
CX4005	5-250 MHz	24	27	0.45	C226
C4006	5-1000 MHz	27	24	0.48	C223
CX4011	5-1000 MHz	25	26	0.65	C218
CX4012	40-1000 MHz	27	22	0.65	C220
CX4002	5-1000 MHz	5-400 MHz 30 400-1000 MHz 21	26	5-400 MHz 0.5 400-1000 MHz 0.8	C201

Part Number	Impedance Ratio	Bandwidth (MHz TYP)			Package Style	Data Sheet
		3 dB	2 dB	1 dB		
<b>Wideband RF Transformers</b>						
CX2024	1:1	—	Up to 1500	10-1200	Leadless <sup>1</sup>	C217
CX2072	1:1	—	Up to 1500	10-1000	5-pin SMT	C227
CX2078	1:1	—	—	5-500	5-pin SMT	C215
CX2038	1:1; (75 Ω)	—	Up to 1500	4.5-1000	Leadless <sup>1</sup>	C203
CX2039	1:1; (50 Ω)	—	Up to 1500	4.5-1000	Leadless <sup>1</sup>	C203
CX2040	1:1	1.5-500	2.5-400	5-350	Leadless <sup>1</sup>	C203
CX2050	1:1	0.15-400	—	—	6-pin SMT	C206
CX2060	1:1	0.15-400	—	—	6-pin THT	C206
CX2052	1:1CT	0.08-200	—	—	6-pin SMT	C206
CX2062	1:1CT	0.08-200	—	—	6-pin THT	C206
C2020	1CT:1CT	0.150-210	.200-150	.350-90	6-pin SMT	C200
C2042	1CT:1CT	0.30-300	0.40-200	0.5-90	6-pin SMT	C210
CX2081	1:1.5CT	5.0-125	—	—	5-pin SMT	C215
CX2043	1:1.5	—	—	1-1000	Leadless <sup>1</sup>	C203
CX2044	1:1.5	—	1.0-500	5-100	Leadless <sup>1</sup>	C203
C2022	1:4CT	0.100-500	.150-390	.300-220	6-pin SMT	C200
CX2032	1:4CT	—	—	5-165	Low Profile	C210
CX2047	1:4CT	—	.50-300	1.5-100	Leadless <sup>1</sup>	C203
CX2054	1:4CT	0.20-350	—	—	6-pin SMT	C206
CX2064	1:4CT	0.20-350	—	—	6-pin THT	C206
CX2065	1:4CT	0.02-250	—	—	6-pin THT	C206
CX2059	1:9	0.15-200	—	—	6-pin SMT	C206

1. 0.15 sq

## IEEE 1394

Part Number	No. of Lines	Inductance OCL (μH MIN)	Package L/W/H (in.) <sup>1</sup>	Data Sheet
<b>Common Mode Choke</b>				
A1801	2	3	.290 / .240 / .150	A104

1. Length and width are MAX package dimensions. Height dimension includes the wash area.

THT - Through Hole Package SMT - Surface Mount Package

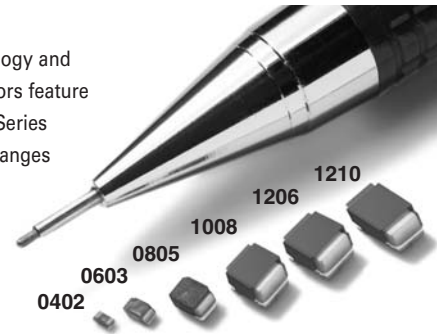
# RF CHIP INDUCTORS



## Miniature, Wirewound Components

The 0402 (ultra small, ultra low profile) to 1210 Series of Miniature RF Inductors all contain wirewound technology and ceramic or ferrite cores, thus providing the ultimate performance demanded by today's RF applications. Inductors feature high Qs and SRFs and an industry standard size and footprint. Tighter inductance tolerances are available. CD Series parts are matched in performance to the industry competition with full compatibility and operating frequency ranges for each Pulse series.

CD, CM and CQ Series inductors are available in tin/lead termination. The new 0805FT, 1008FD and 1210FT series have the same wirewound technology with industry standard performances and footprints, but contain ferrite cores. For a complete reference of Pulse's chip Inductors, review the Chip Inductor Catalog, **WC701**, under the data sheet menu on Pulse's web site: <http://www.pulseeng.com>



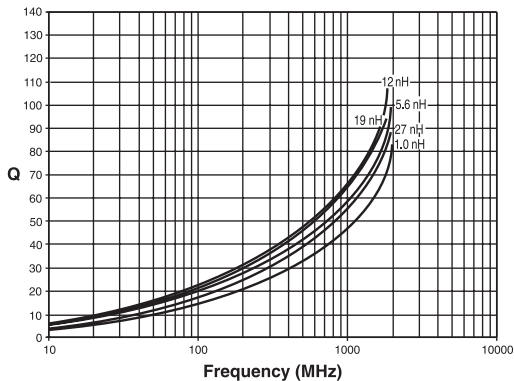
**NOTE:** See last page of this section for the Part Number Ordering Guide, general Information and available sample kits.

### ULTRA SMALL, ULTRA LOW PROFILE

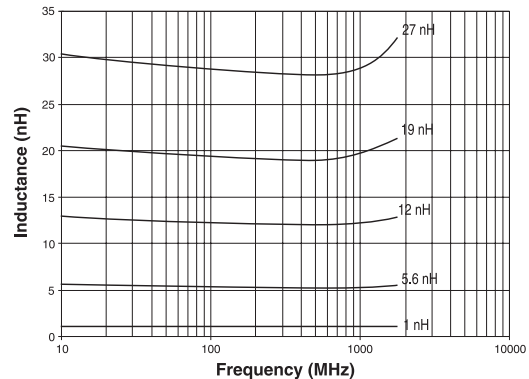
Part Number*	Inductance (nH)	Standard Tolerance	Optional Tolerance	Q (MIN)	SRF (MHz MIN)	R <sub>DC</sub> (Ω MAX)	I <sub>DC</sub> (mA MAX)	900 MHz (L TYP) (Q TYP)	1.7 GHz (L TYP) (Q TYP)
<b>0402CD Series</b>									
PE-0402CD1N0KTT	1.0 @ 250 MHz	±10% (K)	±5% (J)	16 @ 250 MHz	6000	0.045	1360	1.02 77	1.02 69
PE-0402CD1N2KTT	1.2 @ 250 MHz	±10% (K)	±5% (J)	16 @ 250 MHz	6000	0.048	1300	1.10 73	1.02 70
PE-0402CD1N8KTT	1.8 @ 250 MHz	±10% (K)	±5% (J)	16 @ 250 MHz	6000	0.060	1100	1.78 60	1.78 75
PE-0402CD2N0KTT	2.0 @ 250 MHz	±10% (K)	±5% (J)	16 @ 250 MHz	6000	0.070	1040	1.93 54	1.93 75
PE-0402CD2N2KTT	2.2 @ 250 MHz	±10% (K)	±5% (J)	19 @ 250 MHz	6000	0.070	960	2.19 59	2.23 100
PE-0402CD3N3KTT	3.3 @ 250 MHz	±10% (K)	±5% (J)	19 @ 250 MHz	6000	0.066	840	3.10 65	3.12 87
PE-0402CD3N6KTT	3.6 @ 250 MHz	±10% (K)	±5% (J)	19 @ 250 MHz	6000	0.066	840	3.56 45	3.62 71
PE-0402CD3N9KTT	3.9 @ 250 MHz	±10% (K)	±5% (J)	19 @ 250 MHz	5800	0.066	840	3.89 50	4.00 75
PE-0402CD4N7KTT	4.7 @ 250 MHz	±10% (K)	±5% (J)	20 @ 250 MHz	5800	0.078	810	4.74 54	4.85 79
PE-0402CD5N1KTT	5.1 @ 250 MHz	±10% (K)	±5% (J)	20 @ 250 MHz	5800	0.083	800	5.15 56	5.25 82
PE-0402CD5N6KTT	5.6 @ 250 MHz	±10% (K)	±5% (J)	20 @ 250 MHz	5800	0.083	760	5.16 54	5.28 81
PE-0402CD6N2KTT	6.2 @ 250 MHz	±10% (K)	±5% (J)	20 @ 250 MHz	5800	0.083	760	6.16 52	6.37 76
PE-0402CD7N5KTT	7.5 @ 250 MHz	±10% (K)	±5% (J)	22 @ 250 MHz	5800	0.104	680	7.91 60	8.22 88
PE-0402CD8N2KTT	8.2 @ 250 MHz	±10% (K)	±5% (J)	22 @ 250 MHz	4400	0.104	680	8.5 57	8.85 84
PE-0402CD9N0KTT	9.0 @ 250 MHz	±10% (K)	±5% (J)	22 @ 250 MHz	4160	0.104	681	9.07 62	9.53 78
PE-0402CD100KTT	10 @ 250 MHz	±10% (K)	±5% (J)	21 @ 250 MHz	3900	0.195	480	9.8 50	10.1 67
PE-0402CD110KTT	11 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	3680	0.120	640	10.7 52	11.2 78
PE-0402CD120KTT	12 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	3600	0.120	640	11.9 53	12.7 71
PE-0402CD150KTT	15 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	3280	0.172	560	14.6 55	15.5 77
PE-0402CD190KTT	19 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	3040	0.202	480	19.1 50	21.1 67
PE-0402CD230KTT	23 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	2720	0.214	400	23.8 49	26.9 64
PE-0402CD270KTT	27 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	2480	0.298	400	28.7 49	33.5 63
PE-0402CD330KTT	33 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	2380	0.340	350	39.0 46	46.1 56
PE-0402CD360KTT	36 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	2320	0.403	320	39.5 44	48.4 53
PE-0402CD400KTT	40 @ 250 MHz	±10% (K)	±5% (J)	24 @ 250 MHz	2240	0.438	320	39.0 44	47.4 33
PE-0402CD470KTT	47 @ 250 MHz	±10% (K)	±5% (J)	20 @ 250 MHz	2100	0.830	150	50.0 38	- -
PE-0402CD680KTT	68 @ 250 MHz	±10% (K)	±5% (J)	18 @ 250 MHz	1840	0.970	120	72.0 34	- -
PE-0402CD121KTT	120 @ 250 MHz	±10% (K)	±5% (J)	14 @ 250 MHz	1520	1.220	90	94.0 28	- -

#### Surface Mount

Typical Q vs Frequency – 0402



Typical Inductance vs Frequency – 0402



\* **NOTE:** Referenced part is Standard Tolerance, 10% (K). To order parts with optional tolerances, see the Part Number Ordering Guide on the last page of this section

## INDUSTRY STANDARD PERFORMANCE

Part Number*	Inductance (nH)	Standard Tolerance	Optional Tolerance	Q (MIN)	SRF (MHz MIN)	900 MHz (L TYP) (Q TYP)	1.7 GHz (L TYP) (Q TYP)
<b>0603CD Series</b>							
PE-0603CD010KTT	1.8 @ 250 MHz	±10% (K)	±5%, ±2%	17 @ 250 MHz	>6000	1.68 34	1.7 50
PE-0603CD3N6KTT	3.6 @ 250 MHz	±10% (K)	±5%, ±2%	23 @ 250 MHz	>6000	3.60 46	3.60 65
PE-0603CD030KTT	3.9 @ 250 MHz	±10% (K)	±5%, ±2%	23 @ 250 MHz	>6000	3.85 49	4.0 69
PE-0603CD4N3KTT	4.3 @ 250 MHz	±10% (K)	±5%, ±2%	21 @ 250 MHz	>6000	3.85 49	4.0 69
PE-0603CD040KTT	4.7 @ 250 MHz	±10% (K)	±5%, ±2%	20 @ 250 MHz	5800	4.72 47	4.75 57
PE-0603CD060KTT	6.8 @ 250 MHz	±10% (K)	±5%, ±2%	29 @ 250 MHz	5800	6.80 58	7.1 79
PE-0603CD080KTT	8.2 @ 250 MHz	±10% (K)	±5%, ±2%	31 @ 250 MHz	5000	8.20 62	8.7 77
PE-0603CD100KTT	10 @ 250 MHz	±10% (K)	±5%, ±2%	35 @ 250 MHz	4800	10.00 64	10.8 84
PE-0603CD120KTT	12 @ 250 MHz	±10% (K)	±5%, ±2%	35 @ 250 MHz	4000	12.00 70	13.0 85
PE-0603CD150KTT	15 @ 250 MHz	±10% (K)	±5%, ±2%	36 @ 250 MHz	4000	16.00 72	17.0 87
PE-0603CD160KTT	16 @ 250 MHz	±10% (K)	±5%, ±2%	36 @ 250 MHz	3800	17.00 72	19.0 98
PE-0603CD180KTT	18 @ 250 MHz	±10% (K)	±5%, ±2%	35 @ 250 MHz	3100	19.00 71	22.0 114
PE-0603CD220KTT	22 @ 250 MHz	±10% (K)	±5%, ±2%	41 @ 250 MHz	3000	23.00 83	27.00 128
PE-0603CD240KTT	24 @ 250 MHz	±10% (K)	±5%, ±2%	41 @ 250 MHz	3050	25.00 85	29.00 128
PE-0603CD270KTT	27 @ 250 MHz	±10% (K)	±5%, ±2%	40 @ 250 MHz	2800	28.00 86	34.0 129
PE-0603CD330KTT	33 @ 250 MHz	±10% (K)	±5%, ±2%	40 @ 250 MHz	2300	36.00 67	51.0 42
PE-0603CD390KTT	39 @ 250 MHz	±10% (K)	±5%, ±2%	40 @ 250 MHz	2200	43.00 77	61.0 75
PE-0603CD430KTT	43 @ 250 MHz	±10% (K)	±5%, ±2%	40 @ 250 MHz	2100	48.00 72	69.0 62
PE-0603CD470KTT	47 @ 200 MHz	±10% (K)	±5%, ±2%	41 @ 200 MHz	2000	53.00 66	85.0 38
PE-0603CD560KTT	56 @ 200 MHz	±10% (K)	±5%, ±2%	40 @ 200 MHz	1900	67.00 61	131.0 26
PE-0603CD680KTT	68 @ 200 MHz	±10% (K)	±5%, ±2%	37 @ 200 MHz	1700	82.00 52	210.0 14
PE-0603CD720KTT	72 @ 150 MHz	±10% (K)	±5%, ±2%	34 @ 150 MHz	1700	83.00 82	159.0 65
PE-0603CD820KTT	82 @ 150 MHz	±10% (K)	±5%, ±2%	34 @ 150 MHz	1700	100.00 77	250.0 34
PE-0603CD101KTT	100 @ 150 MHz	±10% (K)	±5%, ±2%	35 @ 150 MHz	1400	130.00 57	— —
PE-0603CD111KTT	110 @ 150 MHz	±10% (K)	±5%, ±2%	33 @ 150 MHz	1350	150.00 64	— —
PE-0603CD121KTT	120 @ 150 MHz	±10% (K)	±5%, ±2%	34 @ 150 MHz	1300	179.00 41	— —
PE-0603CD151KTT	150 @ 150 MHz	±10% (K)	±5%, ±2%	28 @ 150 MHz	990	250.00 25	— —
PE-0603CD181KTT	180 @ 100 MHz	±10% (K)	±5%, ±2%	25 @ 100 MHz	990	305.00 22	— —
PE-0603CD221KTT	220 @ 100 MHz	±10% (K)	±5%, ±2%	25 @ 100 MHz	900	480.00 8	— —
PE-0603CD271KTT	270 @ 100 MHz	±10% (K)	±5%, ±2%	24 @ 100 MHz	900	980.00 4	— —
PE-0603CD331KTT	330 @ 100 MHz	±10% (K)	±5%, ±2%	22 @ 100 MHz	840	1100.00 3	— —
PE-0603CD391KTT	390 @ 100 MHz	±10% (K)	±5%, ±2%	20 @ 100 MHz	790	1220.00 3	— —

Part Number*	Inductance (nH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)
<b>0805CD Series</b>				
PE-0805CD030KTT	3.3 @ 250 MHz	±5%, ±2%, ±1%	50 @ 1500 MHz	6000
PE-0805CD050KTT	5.6 @ 250 MHz	±5%, ±2%, ±1%	50 @ 1500 MHz	5800
PE-0805CD060KTT	6.8 @ 250 MHz	±5%, ±2%, ±1%	50 @ 1000 MHz	5500
PE-0805CD080KTT	8.2 @ 250 MHz	±5%, ±2%, ±1%	50 @ 1000 MHz	4700
PE-0805CD100KTT	10.2 @ 250 MHz	±5%	50 @ 500 MHz	4100
PE-0805CD120KTT	12 @ 250 MHz	±5%, ±2%, ±1%	50 @ 500 MHz	4000
PE-0805CD150KTT	15 @ 250 MHz	±5%, ±2%, ±1%	50 @ 500 MHz	3400
PE-0805CD180KTT	18 @ 250 MHz	±5%, ±2%, ±1%	50 @ 500 MHz	3300
PE-0805CD220KTT	22 @ 250 MHz	±5%, ±2%, ±1%	55 @ 500 MHz	2600
PE-0805CD270KTT	27 @ 250 MHz	±5%, ±2%, ±1%	55 @ 500 MHz	2500
PE-0805CD330KTT	33 @ 250 MHz	±5%, ±2%, ±1%	60 @ 500 MHz	2050
PE-0805CD390KTT	39 @ 250 MHz	±5%, ±2%, ±1%	60 @ 500 MHz	2000
PE-0805CD470KTT	47 @ 200 MHz	±5%, ±2%, ±1%	60 @ 500 MHz	1650
PE-0805CD560KTT	56 @ 200 MHz	±5%, ±2%, ±1%	60 @ 500 MHz	1550
PE-0805CD680KTT	68 @ 200 MHz	±5%, ±2%, ±1%	60 @ 500 MHz	1450
PE-0805CD820KTT	82 @ 150 MHz	±5%, ±2%, ±1%	65 @ 500 MHz	1300
PE-0805CD910KTT	91 @ 150 MHz	±5%, ±2%, ±1%	65 @ 500 MHz	1250
PE-0805CD101KTT	100 @ 150 MHz	±5%, ±2%, ±1%	65 @ 500 MHz	1200
PE-0805CD121KTT	120 @ 150 MHz	±5%, ±2%, ±1%	50 @ 250 MHz	1100
PE-0805CD151KTT	150 @ 100 MHz	±5%, ±2%, ±1%	50 @ 250 MHz	920
PE-0805CD181KTT	180 @ 100 MHz	±5%, ±2%, ±1%	50 @ 250 MHz	870
PE-0805CD221KTT	220 @ 100 MHz	±5%, ±2%, ±1%	50 @ 250 MHz	850
PE-0805CD271KTT	270 @ 100 MHz	±5%, ±2%, ±1%	48 @ 250 MHz	650
PE-0805CD331KTT	330 @ 100 MHz	±5%, ±2%, ±1%	48 @ 250 MHz	600
PE-0805CD391KTT	390 @ 100 MHz	±5%, ±2%, ±1%	48 @ 250 MHz	560
PE-0805CD471KTT	470 @ 50 MHz	±5%, ±2%, ±1%	33 @ 100 MHz	375

Part Number*	Inductance (nH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)
<b>0805CD Series (continued)</b>				
PE-0805CD561KTT	560 @ 25 MHz	±5%, ±2%, ±1%	23 @ 50 MHz	340
PE-0805CD681KTT	680 @ 25 MHz	±5%, ±2%, ±1%	23 @ 50 MHz	188
PE-0805CD821KTT	820 @ 25 MHz	±5%, ±2%, ±1%	23 @ 50 MHz	215
PE-0805CD102KTT	1000 @ 25 MHz	±5%, ±2%, ±1%	25 @ 50 MHz	200
PE-0805CD122KTT	1200 @ 25 MHz	±5%, ±2%, ±1%	25 @ 50 MHz	200
PE-0805CD152KTT	1500 @ 25 MHz	±5%, ±2%	23 @ 50 MHz	180

Part Number*	Inductance (nH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)
<b>1008CD Series</b>				
PE-1008CD040KTT	4.7 @ 50 MHz	±5%, ±2%	50 @ 500 MHz	6000
PE-1008CD080KTT	8.2 @ 50 MHz	±5%, ±2%	50 @ 500 MHz	5000
PE-1008CD100KTT	10 @ 50 MHz	±5%, ±2%	50 @ 500 MHz	4100
PE-1008CD120KTT	12 @ 50 MHz	±5%, ±2%	50 @ 500 MHz	3300
PE-1008CD150KTT	15 @ 50 MHz	±5%, ±2%	50 @ 500 MHz	2500
PE-1008CD180KTT	18 @ 50 MHz	±5%, ±2%	50 @ 350 MHz	2500
PE-1008CD220KTT	22 @ 50 MHz	±5%, ±2%	55 @ 350 MHz	2400
PE-1008CD270KTT	27 @ 50 MHz	±5%, ±2%	55 @ 350 MHz	1600
PE-1008CD330KTT	33 @ 50 MHz	±5%, ±2%	60 @ 350 MHz	1600
PE-1008CD390KTT	39 @ 50 MHz	±5%, ±2%	60 @ 350 MHz	1500
PE-1008CD470KTT	47 @ 50 MHz	±5%, ±2%	65 @ 350 MHz	1500
PE-1008CD560KTT	56 @ 50 MHz	±5%, ±2%	65 @ 350 MHz	1300
PE-1008CD680KTT	68 @ 50 MHz	±5%, ±2%	65 @ 350 MHz	1300
PE-1008CD820KTT	82 @ 50 MHz	±5%, ±2%	60 @ 350 MHz	1000
PE-1008CD101KTT	100 @ 25 MHz	±5%, ±2%	60 @ 350 MHz	1000
PE-1008CD121KTT	120 @ 25 MHz	±5%, ±2%	60 @ 350 MHz	950
PE-1008CD151KTT	150 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	850

(1008CD Series continued on next page)

Surface Mount

\* NOTE: Referenced part is Standard Tolerance, 10% (K). To order parts with optional tolerances, see the Part Number Ordering Guide on the last page of this section



## INDUSTRY STANDARD PERFORMANCE (continued)

Part Number*	Inductance (nH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)
<b>1008CD Series (continued)</b>				
PE-1008CD181KTT	180 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	750
PE-1008CD221KTT	220 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	700
PE-1008CD271KTT	270 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	600
PE-1008CD331KTT	330 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	570
PE-1008CD391KTT	390 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	500
PE-1008CD471KTT	470 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	450
PE-1008CD561KTT	560 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	415
PE-1008CD621KTT	620 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	375
PE-1008CD681KTT	680 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	375
PE-1008CD751KTT	750 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	360
PE-1008CD821KTT	820 @ 25 MHz	±5%, ±2%	45 @ 100 MHz	350
PE-1008CD911KTT	910 @ 25 MHz	±5%, ±2%	35 @ 50 MHz	320
PE-1008CD102KTT	1000 @ 25 MHz	±5%, ±2%	35 @ 50 MHz	290
PE-1008CD122KTT	1200 @ 7.9 MHz	±5%, ±2%	35 @ 50 MHz	250
PE-1008CD152KTT	1500 @ 7.9 MHz	±5%, ±2%	28 @ 50 MHz	200
PE-1008CD182KTT	1800 @ 7.9 MHz	±5%, ±2%	28 @ 50 MHz	160
PE-1008CD222KTT	2200 @ 7.9 MHz	±5%, ±2%	28 @ 50 MHz	160
PE-1008CD272KTT	2700 @ 7.9 MHz	±5%, ±2%	22 @ 50 MHz	140
PE-1008CD332KTT	3300 @ 7.9 MHz	±5%, ±2%	22 @ 50 MHz	110
PE-1008CD392KTT	3900 @ 7.9 MHz	±5%, ±2%	20 @ 50 MHz	100
PE-1008CD472KTT	4700 @ 7.9 MHz	5%	20 @ 50 MHz	90
PE-1008CD562KTT	5600 @ 7.9 MHz	5%	20 @ 50 MHz	90

Part Number*	Inductance (nH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)
<b>1206CD Series</b>				
PE-1206CD030KTT	3.3 @ 100 MHz	±20%, ±5%	30 @ 300 MHz	6200
PE-1206CD060KTT	6.8 @ 100 MHz	±20%, ±5%	30 @ 300 MHz	5500
PE-1206CD100KTT	10 @ 100 MHz	±20%, ±5%	40 @ 300 MHz	4000
PE-1206CD120KTT	12 @ 100 MHz	±20%, ±5%	40 @ 300 MHz	3200
PE-1206CD150KTT	15 @ 100 MHz	±20%, ±5%	40 @ 300 MHz	3200
PE-1206CD180KTT	18 @ 100 MHz	±20%, ±5%	50 @ 300 MHz	2800
PE-1206CD220KTT	22 @ 100 MHz	±20%, ±5%	50 @ 300 MHz	2200
PE-1206CD270KTT	27 @ 100 MHz	±20%, ±5%	50 @ 300 MHz	1800
PE-1206CD330KTT	33 @ 100 MHz	±20%, ±5%	55 @ 300 MHz	1800
PE-1206CD390KTT	39 @ 100 MHz	±20%, ±5%	55 @ 300 MHz	1800
PE-1206CD470KTT	47 @ 100 MHz	±20%, ±5%	55 @ 300 MHz	1500
PE-1206CD560KTT	56 @ 100 MHz	±20%, ±5%	55 @ 300 MHz	1450
PE-1206CD680KTT	68 @ 100 MHz	±20%, ±5%	55 @ 300 MHz	1200
PE-1206CD820KTT	82 @ 100 MHz	±20%, ±5%	55 @ 300 MHz	1200
PE-1206CD101KTT	100 @ 100 MHz	±20%, ±5%	55 @ 300 MHz	1100
PE-1206CD121KTT	120 @ 100 MHz	±20%, ±5%	60 @ 300 MHz	1100
PE-1206CD151KTT	150 @ 100 MHz	±20%, ±5%	60 @ 300 MHz	950
PE-1206CD181KTT	180 @ 50 MHz	±20%, ±5%	60 @ 300 MHz	900
PE-1206CD221KTT	220 @ 50 MHz	±20%, ±5%	60 @ 300 MHz	760
PE-1206CD271KTT	270 @ 50 MHz	±20%, ±5%	55 @ 300 MHz	730
PE-1206CD331KTT	330 @ 50 MHz	±20%, ±5%	45 @ 150 MHz	650
PE-1206CD391KTT	390 @ 50 MHz	±20%, ±5%	45 @ 150 MHz	600
PE-1206CD471KTT	470 @ 50 MHz	±20%, ±5%	45 @ 150 MHz	550
PE-1206CD561KTT	560 @ 35 MHz	±20%, ±5%	45 @ 150 MHz	470
PE-1206CD681KTT	680 @ 35 MHz	±20%, ±5%	45 @ 150 MHz	450
PE-1206CD821KTT	820 @ 35 MHz	±20%, ±5%	45 @ 150 MHz	420
PE-1206CD102KTT	1000 @ 35 MHz	±20%, ±5%	45 @ 150 MHz	400
PE-1206CD122KTT	1200 @ 35 MHz	±20%, ±5%	45 @ 150 MHz	380

## FERRITE CORE

Part Number*	Inductance (nH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)	R <sub>dc</sub> (Ω MAX)	I <sub>dc</sub> (mA MAX)
<b>0805FT Series</b>						
PE-0805FT102KTT	1.0 @ 7.96 MHz	±5%	15 @ 7.96 MHz	63	1.20	245
PE-0805FT152KTT	1.5 @ 7.96 MHz	±5%	15 @ 7.96 MHz	60	1.45	225
PE-0805FT222KTT	2.2 @ 7.96 MHz	±5%	15 @ 7.96 MHz	58	1.80	200
PE-0805FT332KTT	3.3 @ 7.96 MHz	±5%	15 @ 7.96 MHz	50	2.30	175
PE-0805FT472KTT	4.7 @ 7.96 MHz	±5%	15 @ 7.96 MHz	43	2.80	140
PE-0805FT682KTT	6.8 @ 7.96 MHz	±5%	15 @ 7.96 MHz	36	3.40	115
PE-0805FT103KTT	10 @ 2.52 MHz	±5%	10 @ 2.52 MHz	30	4.70	98
PE-0805FT153KTT	15 @ 2.52 MHz	±5%	10 @ 2.52 MHz	23	6.50	80
PE-0805FT223KTT	22 @ 2.52 MHz	±5%	10 @ 2.52 MHz	20	8.0	68
PE-0805FT333KTT	33 @ 2.52 MHz	±5%	10 @ 2.52 MHz	17	10.7	60
PE-0805FT472KTT	47 @ 2.52 MHz	±5%	10 @ 2.52 MHz	14	11.9	55
PE-0805FT682KTT	68 @ 2.52 MHz	±5%	8 @ 2.52 MHz	11	13.6	49

Part Number*	Inductance (µH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)	R <sub>dc</sub> (Ω MAX)	I <sub>dc</sub> (mA MAX)
<b>1008FD Series</b>						
PE-1008FD151KTT	0.15 @ 25 MHz	±5%	45 @ 100 MHz	500	0.35	750
PE-1008FD181KTT	0.18 @ 25 MHz	±5%	45 @ 100 MHz	500	0.40	750
PE-1008FD331KTT	0.33 @ 25 MHz	±5%	45 @ 100 MHz	500	0.50	700
PE-1008FD122KTT	1.20 @ 7.9 MHz	±5%	48 @ 50 MHz	210	0.68	650
PE-1008FD152KTT	1.50 @ 7.9 MHz	±5%	41 @ 50 MHz	190	0.76	630
PE-1008FD182KTT	1.80 @ 7.9 MHz	±5%	39 @ 50 MHz	170	0.84	600
PE-1008FD222KTT	2.20 @ 7.9 MHz	±5%	34 @ 50 MHz	150	1.10	520
PE-1008FD272KTT	2.70 @ 7.9 MHz	±5%	34 @ 50 MHz	135	1.28	490
PE-1008FD332KTT	3.30 @ 7.9 MHz	±5%	32 @ 50 MHz	120	1.46	450
PE-1008FD392KTT	3.90 @ 7.9 MHz	±5%	32 @ 7.9 MHz	105	1.56	420
PE-1008FD472KTT	4.70 @ 7.9 MHz	±5%	31 @ 7.9 MHz	90	1.68	400
PE-1008FD562KTT	5.60 @ 7.9 MHz	±5%	31 @ 7.9 MHz	80	1.82	380
PE-1008FD682KTT	6.80 @ 7.9 MHz	±5%	31 @ 7.9 MHz	70	2.00	360
PE-1008FD822KTT	8.20 @ 7.9 MHz	±5%	23 @ 7.9 MHz	65	2.65	330
PE-1008FD103KTT	10.00 @ 7.9 MHz	±5%	31 @ 7.9 MHz	60	2.95	300

Part Number*	Inductance (µH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)	R <sub>dc</sub> (Ω MAX)	I <sub>dc</sub> (mA MAX)
<b>1210FT Series</b>						
PE-1210FT100KTT	0.010 @ 100 MHz	±5%	15 @ 100 MHz	2500	0.13	450
PE-1210FT120KTT	0.012 @ 100 MHz	±5%	17 @ 100 MHz	2300	0.14	450
PE-1210FT150KTT	0.015 @ 100 MHz	±5%	19 @ 100 MHz	2100	0.16	450
PE-1210FT180KTT	0.018 @ 100 MHz	±5%	21 @ 100 MHz	1900	0.18	450
PE-1210FT220KTT	0.022 @ 100 MHz	±5%	23 @ 100 MHz	1700	0.20	450
PE-1210FT270KTT	0.027 @ 100 MHz	±5%	23 @ 100 MHz	1500	0.22	450
PE-1210FT330KTT	0.033 @ 100 MHz	±5%	25 @ 100 MHz	1400	0.24	450
PE-1210FT390KTT	0.039 @ 100 MHz	±5%	25 @ 100 MHz	1300	0.27	450
PE-1210FT470KTT	0.047 @ 100 MHz	±5%	26 @ 100 MHz	1200	0.30	450
PE-1210FT560KTT	0.056 @ 100 MHz	±5%	26 @ 100 MHz	1100	0.33	450
PE-1210FT680KTT	0.068 @ 100 MHz	±5%	27 @ 100 MHz	1000	0.36	450
PE-1210FT820KTT	0.082 @ 100 MHz	±5%	27 @ 100 MHz	900	0.40	450
PE-1210FT101KTT	0.100 @ 100 MHz	±5%	28 @ 100 MHz	700	0.44	450
PE-1210FT121KTT	0.120 @ 25.2 MHz	±5%	30 @ 25.2 MHz	500	0.22	450
PE-1210FT151KTT	0.150 @ 25.2 MHz	±5%	30 @ 25.2 MHz	450	0.25	450
PE-1210FT181KTT	0.180 @ 25.2 MHz	±5%	30 @ 25.2 MHz	400	0.28	450
PE-1210FT221KTT	0.220 @ 25.2 MHz	±5%	30 @ 25.2 MHz	350	0.32	450
PE-1210FT271KTT	0.270 @ 25.2 MHz	±5%	30 @ 25.2 MHz	320	0.36	450
PE-1210FT331KTT	0.330 @ 25.2 MHz	±5%	30 @ 25.2 MHz	300	0.40	450
PE-1210FT391KTT	0.390 @ 25.2 MHz	±5%	30 @ 25.2 MHz	250	0.45	450
PE-1210FT471KTT	0.470 @ 25.2 MHz	±5%	30 @ 25.2 MHz	220	0.50	450
PE-1210FT561KTT	0.560 @ 25.2 MHz	±5%	30 @ 25.2 MHz	180	0.55	450
PE-1210FT681KTT	0.680 @ 25.2 MHz	±5%	30 @ 25.2 MHz	160	0.60	450
PE-1210FT821KTT	0.820 @ 25.2 MHz	±5%	30 @ 25.2 MHz	140	0.65	450
PE-1210FT102KTT	1.000 @ 7.96 MHz	±5%	30 @ 7.96 MHz	120	0.70	400
PE-1210FT122KTT	1.200 @ 7.96 MHz	±5%	30 @ 7.96 MHz	100	0.75	390
PE-1210FT152KTT	1.500 @ 7.96 MHz	±5%	30 @ 7.96 MHz	85	0.85	370
PE-1210FT182KTT	1.800 @ 7.96 MHz	±5%	30 @ 7.96 MHz	80	0.90	350

1210 FT Series continued on next page.

Surface Mount



# RF CHIP INDUCTORS



## FERRITE CORE (continued)

Part Number*	Inductance (µH)	Optional Tolerance	Q (MIN)	SRF (MHz MIN)	R <sub>DC</sub> (Ω MAX)	I <sub>DC</sub> (mA MAX)
<b>1210FT Series (continued)</b>						
PE-1210FT222KTT2.200 @ 7.96 MHz	2.200	±5%	30 @ 7.96 MHz	75	1.00	320
PE-1210FT272KTT2.700 @ 7.96 MHz	2.700	±5%	30 @ 7.96 MHz	70	1.10	290
PE-1210FT332KTT3.300 @ 7.96 MHz	3.300	±5%	30 @ 7.96 MHz	60	1.20	260
PE-1210FT392KTT3.900 @ 7.96 MHz	3.900	±5%	30 @ 7.96 MHz	55	1.30	250
PE-1210FT472KTT4.700 @ 7.96 MHz	4.700	±5%	30 @ 7.96 MHz	50	1.50	224
PE-1210FT562KTT5.600 @ 7.96 MHz	5.600	±5%	30 @ 7.96 MHz	45	1.60	204
PE-1210FT682KTT6.800 @ 7.96 MHz	6.800	±5%	30 @ 7.96 MHz	40	1.80	180
PE-1210FT822KTT8.200 @ 7.96 MHz	8.200	±5%	30 @ 7.96 MHz	35	2.00	170
PE-1210FT103KTT10.000 @ 2.52 MHz	10.000	±5%	30 @ 2.52 MHz	30	2.10	150
PE-1210FT123KTT12.000 @ 2.52 MHz	12.000	±5%	30 @ 2.52 MHz	20	2.50	140

## ALTERNATIVE INDUCTANCE & Q vs. FREQUENCY HIGH SIDE METALLIZATION

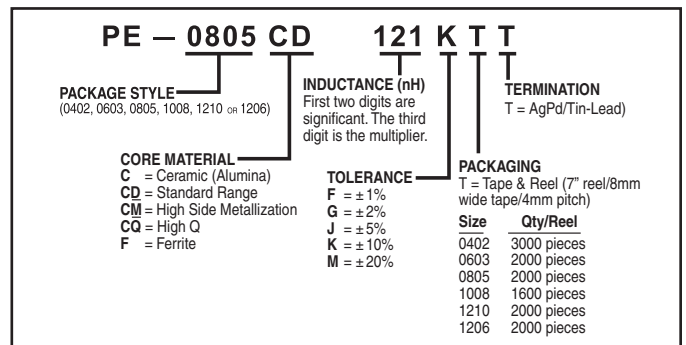
Part Number*	Inductance (nH)	Optional Tolerance	Q (MIN)	SRF (GHz MIN)	R <sub>DC</sub> (Ω MAX)	I <sub>DC</sub> (A MAX)
<b>1008CQ Series</b>						
PE-1008CQ3N0KTT	3.0 @ 50 MHz	±5%	70 @ 1500 MHz	6.00	0.04	1.60
PE-1008CQ4N1KTT	4.1 @ 50 MHz	±5%	75 @ 1500 MHz	6.00	0.05	1.60
PE-1008CQ7N8KTT	7.8 @ 50 MHz	±5%	75 @ 1500 MHz	3.80	0.05	1.60
PE-1008CQ100KTT	10 @ 50 MHz	±5%	60 @ 500 MHz	3.60	0.06	1.60
PE-1008CQ120KTT	12 @ 50 MHz	±5%	70 @ 500 MHz	2.80	0.06	1.50
PE-1008CQ180KTT	18 @ 50 MHz	±5%	62 @ 350 MHz	2.70	0.07	1.40
PE-1008CQ220KTT	22 @ 50 MHz	±5%	62 @ 350 MHz	2.05	0.07	1.40
PE-1008CQ330KTT	33 @ 50 MHz	±5%	75 @ 350 MHz	1.70	0.09	1.30
PE-1008CQ390KTT	39 @ 50 MHz	±5%	75 @ 350 MHz	1.30	0.09	1.30
PE-1008CQ470KTT	47 @ 50 MHz	±5%	75 @ 350 MHz	1.45	0.12	1.20
PE-1008CQ560KTT	56 @ 50 MHz	±5%	75 @ 350 MHz	1.23	0.12	1.20
PE-1008CQ680KTT	68 @ 50 MHz	±5%	80 @ 350 MHz	1.15	0.13	1.10
PE-1008CQ820KTT	82 @ 50 MHz	±5%	80 @ 350 MHz	1.06	0.16	1.10
PE-1008CQ101KTT	100 @ 50 MHz	±5%	62 @ 350 MHz	0.82	0.16	1.00
PE-1008CQ221KTT	220 @ 50 MHz	±5%	56 @ 350 MHz	0.68	0.18	0.90

## GENERAL INFORMATION & SAMPLE KITS

Inductor Series	Standard Size Format	Sold as Parts/Reel	Sample Kit Number <sup>2</sup>	Data Sheet
0402CD	0402 (1005)	3000	PE-0402CDKIT-T	WC701
0603CD	0603 (1608)	2000	PE-0603CDKIT-T	WC701
0805CD	0805 (2012)	2000	PE-0805CDKIT-T	WC701
1008CD	1008 (2520)	1600	PE-1008CDKIT-T	WC701
1206CD	1206 (3216)	2000	PE-1206CDKIT-T	WC701
0805CM <sup>1</sup>	0805 (2012)	2000	—	WC701
1008CM <sup>1</sup>	1008 (2520)	1600	—	WC701
0805FT	0805 (2012)	2000	PE-0805FTKIT-T	WC701
1008FD	1008 (2520)	1600	PE-1008FDKIT-T	WC701
1210FT	1210 (3225)	2000	PE-1210FTKIT-T	WC701
1008CQ <sup>2</sup>	1008 (2520)	1600	—	WC701

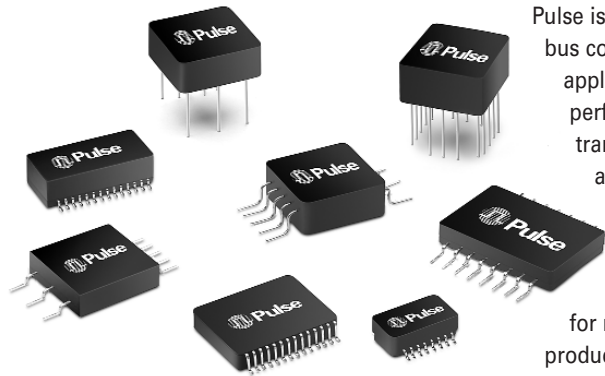
1. Not shown here. Visit the Pulse Web site (<http://www.pulseeng.com>) and go to the "Product Finder" to review these products.
2. When ordering, specify the adjacent sample kit number. For 0805CM, 1008CM, and 1008CQ Series, sample kits are unavailable at this time.

## PART NUMBER ORDERING GUIDE<sup>1</sup>



1. To order directly from Pulse, see the addresses and telephone numbers on the back cover of this catalog. Locate an authorized distributor or representative by going to the Pulse Web site at the following URL: <http://www.pulseeng.com>.

\* NOTE: Referenced part is Standard Tolerance, 10% (K). The Part Number Ordering Guide (above) explains how to order parts available with optional tolerances.



Pulse is one of the leading manufacturers of magnetic interface transformers, data bus couplers, delay lines, and custom electronic components for military/aerospace applications. Both catalog and custom designs include a comprehensive range of high performance solutions and packaging for QPL and non-QPL MIL-STD-1553 interface transformers, various MIL-STD-1553 Data Bus Couplers and QPL and non-QPL active and passive Delay Lines. In addition, the Copperhead product line supports a variety of high speed applications including Fibre Channel, Gigabit Ethernet, SONET, HDTV, IEEE1394B and SMTPE

Pulse's Mil-Aero products are designed to meet the most demanding requirements for military, aerospace and industrial applications. For catalog and/or custom designed products, contact Pulse at 858-674-8100 or find an authorized distributor or representative on the Mil-Aero Division's web site at this URL: <http://www.pulsespecialty.com>.

## HIGH SPEED DATA BUS

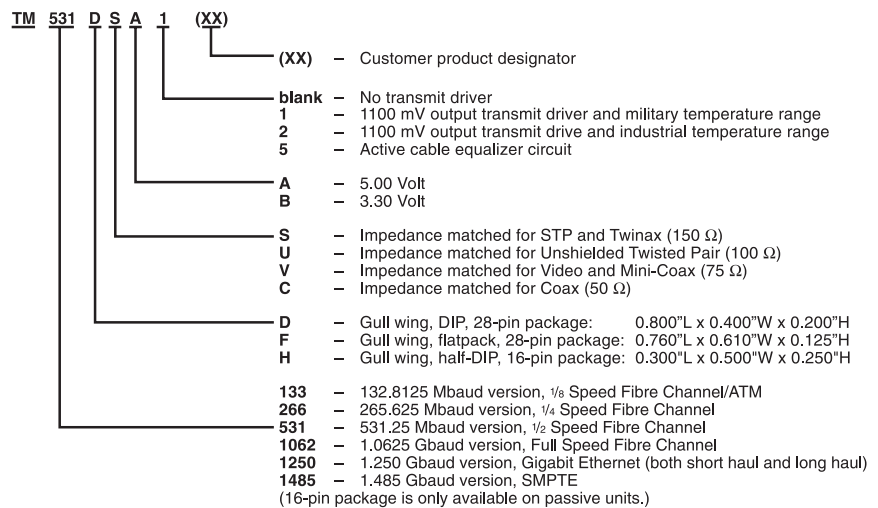
### Copperhead™ Series Transceiver Line Interface Modules

#### Ordering Information <sup>1</sup>

#### High Speed Data and Communications over 100+ Meters of Copper

- Withstands infrared and vapor phase soldering
- Military temperature range -55°C to +125°C
- Low transmit/receive jitter
- Low power dissipation; 450 mW typical
- ECL logic interface
- Surface mount – pick and place compatible

**Applications:** Fibre Channel, Gigabit Ethernet, SONET, HDTV, IEEE 1394B, SMTPE



1. The data sheet for these parts is available on the web at <http://www.pulsespecialty.com/pdfs/Fibre.pdf>

#### Copperhead™ Series

Part Number	Turns Ratio (±5%)	Primary Inductance (OCL μH MIN @ 1 Vrms, 100 kHz)	Rise Time (pS MAX @ 20-80%)	DC Resistance (mW MAX)	Dielectric Withstand (Vrms MIN)	Insertion Loss (MAX)	Bit Rate (Mbaud)
T-330SCT <sup>1</sup>	1CT:1CT	26	350	190	1500	-1.5 dB	265.625
T-1062SCT <sup>1</sup>	1CT:1CT	3.75	280	150	1500	-2.0 dB	1062.5
T-1250SCT <sup>1</sup>	1CT:1CT	3.75	280	150	1500	-2.0 dB	1250
T-1485SCT <sup>1</sup>	1CT:1CT	3.75	280	150	1500	-2.0 dB	1485

1. The data sheet for these parts is available on the web at <http://www.pulsespecialty.com/pdfs/fc-dual.pdf>.

#### Dual Transformers Designed Specifically for Point-to-Point Coupling to 150Ω Twinax Cable

- Withstand infrared and vapor phase soldering
- Weight = 1.0 grams
- Industrial temperature range -40°C to +85°C
- Surface mount – pick and place compatible

**Applications:** Fibre Channel, Gigabit Ethernet, SONET, HDTV, IEEE 1394B, SMTPE

**Application Notes:** These isolation transformers protect the station from static charges that may develop on the cable and prevent ground loop currents from being transferred between stations. They have also been designed to provide common mode rejection within the transmission band, reducing EMI.

*Mil-Aero products continued on next page.*

## MIL-STD-1553

### Non-QPL, Low Profile and Stacked <sup>1</sup>

Part <sup>2</sup> Number	Turns Ratio (±3%)	Impedance (Ω MIN)	Package* (L/W/H) in.	Data <sup>3</sup> Sheet
FL1553-1	1CT:1CT/1CT:.707CT	4,000	.630 / .630 / .155	NQPLC2.pdf
GL1553-1	1CT:1CT/1CT:.707CT	4,000	.630 / .630 / .155	NQPLC2.pdf
TL1553-1	1CT:1CT/1CT:.707CT	4,000	.630 / .630 / .155	NQPLC2.pdf
FL1553-2	1.4CT:1CT/2CT:1CT	7,200	.630 / .630 / .155	NQPLC2.pdf
GL1553-2	1.4CT:1CT/2CT:1CT	7,200	.630 / .630 / .155	NQPLC2.pdf
TL1553-2	1.4CT:1CT/2CT:1CT	7,200	.630 / .630 / .155	NQPLC2.pdf
FL1553-3	1.25CT:1CT/1.66CT:1CT	4,000	.630 / .630 / .155	NQPLC2.pdf
GL1553-3	1.25CT:1CT/1.66CT:1CT	4,000	.630 / .630 / .155	NQPLC2.pdf
TL1553-3	1.25CT:1CT/1.66CT:1CT	4,000	.630 / .630 / .155	NQPLC2.pdf
FL1553-5	1CT:2.12CT/1CT:1.5CT	4,000	.630 / .630 / .155	NQPLC2.pdf
GL1553-5	1CT:2.12CT/1CT:1.5CT	4,000	.630 / .630 / .155	NQPLC2.pdf
TL1553-5	1CT:2.12CT/1CT:1.5CT	4,000	.630 / .630 / .155	NQPLC2.pdf
FL1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.630 / .630 / .155	NQPLC2.pdf
GL1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.630 / .630 / .155	NQPLC2.pdf
TL1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.630 / .630 / .155	NQPLC2.pdf
DFL1553-1	1CT:1CT/1CT:.707CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DGL1553-1	1CT:1CT/1CT:.707CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DTL1553-1	1CT:1CT/1CT:.707CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DFL1553-2	1.4CT:1CT/2CT:1CT	7,200	.930 / .630 / .155	NQPLC2.pdf
DGL1553-2	1.4CT:1CT/2CT:1CT	7,200	.930 / .630 / .155	NQPLC2.pdf
DTL1553-2	1.4CT:1CT/2CT:1CT	7,200	.930 / .630 / .155	NQPLC2.pdf
DFL1553-3	1.25CT:1CT/1.66CT:1CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DGL1553-3	1.25CT:1CT/1.66CT:1CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DTL1553-3	1.25CT:1CT/1.66CT:1CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DFL1553-5	1CT:2.12CT/1CT:1.5CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DGL1553-5	1CT:2.12CT/1CT:1.5CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DTL1553-5	1CT:2.12CT/1CT:1.5CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DFL1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DGL1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.930 / .630 / .155	NQPLC2.pdf
DTL1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.930 / .630 / .155	NQPLC2.pdf
STQ1553-1	1CT:1CT/1CT:.707CT	4,000	.630 / .630 / .340	NQPLC2.pdf
STQ1553-2	1CT:1CT/1CT:.707CT	7,200	.630 / .630 / .340	NQPLC2.pdf
STQ1553-3	1CT:1CT/1CT:.707CT	4,000	.630 / .630 / .340	NQPLC2.pdf
STQ1553-5	1.4CT:1CT/2CT:1CT	4,000	.630 / .630 / .340	NQPLC2.pdf
STQ1553-45	1.4CT:1CT/2CT:1CT	4,000	.630 / .630 / .340	NQPLC2.pdf
SFQ1553-1	1.4CT:1CT/2CT:1CT	4,000	.630 / .630 / .340	NQPLC2.pdf
SGQ1553-1	1.25CT:1CT/1.66CT:1CT	4,000	.630 / .630 / .340	NQPLC2.pdf
SFQ1553-2	1.25CT:1CT/1.66CT:1CT	7,200	.630 / .630 / .340	NQPLC2.pdf
SGQ1553-2	1.25CT:1CT/1.66CT:1CT	7,200	.630 / .630 / .340	NQPLC2.pdf
SFQ1553-3	1CT:2.12CT/1CT:1.5CT	4,000	.630 / .630 / .340	NQPLC2.pdf
SGQ1553-3	1CT:2.12CT/1CT:1.5CT	4,000	.630 / .630 / .340	NQPLC2.pdf
SFQ1553-5	1CT:2.12CT/1CT:1.5CT	4,000	.630 / .630 / .340	NQPLC2.pdf
SGQ1553-5	1CT:2.5CT/1CT:1.79CT	4,000	.630 / .630 / .340	NQPLC2.pdf
SFQ1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.630 / .630 / .340	NQPLC2.pdf
SGQ1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.630 / .630 / .340	NQPLC2.pdf

1. **Designed and built to conform to MIL-PRF-21038/27**

2. **Prefix Operating Temperature**

xxxC1553-xx	0°C to +70°C
xxxN1553-xx	-40°C to +85°C
xxx1553-xx	-55°C to +125°C

3. **Data Sheet posted on web at:**

<http://www.pulsespecialty.com/pdfs/NQPLC2.pdf>

\*Mounting: FP = Flat Pack TH = Through Hole SM = Surface Mount

### QPL Series — Qualified to MIL-PRF-21038/27

Part <sup>1</sup> Number	Military Designation Number	Turns Ratio (±3%)	Impedance (Ω MIN)	Package* (L/W/H) in.	Data <sup>2</sup> Sheet
Q1553-20	M21038/27-05	1:1.41	3,000	.500 / .350 / .250	QPL6.pdf
Q1553-21	M21038/27-06	1CT:1CT	3,000	.500 / .350 / .250	QPL6.pdf
Q1553-22	M21038/27-07	1CT:1.41CT	3,000	.500 / .350 / .250	QPL6.pdf
Q1553-23	M21038/27-08	1CT:1.66CT	3,000	.500 / .350 / .250	QPL6.pdf
Q1553-24	M21038/27-09	1CT:2CT	3,000	.500 / .350 / .250	QPL6.pdf
Q1553-25	M21038/27-28	1CT:1.5CT	3,000	.500 / .350 / .250	QPL6.pdf
Q1553-50	M21038/27-29	1CT:1.79CT	3,000	.500 / .350 / .250	QPL6.pdf
Q1553-52	M21038/27-30	1CT:2.5CT	3,000	.500 / .350 / .250	QPL6.pdf
Q1553-1	M21038/27-01	1CT:1CT/1CT:.707CT	4,000	.500 / .350 / .250	QPL6.pdf
Q1553-2	M21038/27-02C	1.4CT:1CT/2CT:1CT	7,200	.500 / .350 / .250	QPL6.pdf
Q1553-3	M21038/27-03C	1.25CT:1CT/1.66CT:1CT	4,000	.500 / .350 / .250	QPL6.pdf
Q1553-5	M21038/27-05C	1CT:2.12CT/1CT:1.5CT	4,000	.625 / .625 / .250	QPL6.pdf
Q1553-45	M21038/27-26	1CT:2.5CT/1CT:1.79CT	4,000	.625 / .625 / .250	QPL6.pdf
Q1553-81	M21038/27-21	1CT:1CT/1CT:.707CT	4,000	.625 / .625 / .250	QPL6.pdf
Q1553-82	M21038/27-22	1.4CT:1CT/2CT:1CT	7,200	.625 / .625 / .250	QPL6.pdf
Q1553-83	M21038/27-23	1.25CT:1CT/1.66CT:1CT	4,000	.625 / .625 / .250	QPL6.pdf
Q1553-84	M21038/27-24	1CT:2.12CT/1CT:1.5CT	4,000	.625 / .625 / .250	QPL6.pdf
Q1553-85	M21038/27-25	1CT:2.5CT/1CT:1.79CT	4,000	.625 / .625 / .250	QPL6.pdf
FPQ1553-6	M21038/27-16	1CT:1CT/1CT:.707CT	4,000	.625 / .625 / .250	QPL6.pdf
SMQ1553-6	M21038/27-11	1CT:1CT/1CT:.707CT	4,000	.625 / .625 / .250	QPL6.pdf
FPQ1553-7	M21038/27-17	1.4CT:1CT/2CT:1CT	7,200	.625 / .625 / .250	QPL6.pdf
SMQ1553-7	M21038/27-12	1.4CT:1CT/2CT:1CT	7,200	.625 / .625 / .250	QPL6.pdf
FPQ1553-8	M21038/27-18	1.25CT:1CT/1.66CT:1CT	4,000	.625 / .625 / .250	QPL6.pdf
SMQ1553-8	M21038/27-13	1.25CT:1CT/1.66CT:1CT	4,000	.625 / .625 / .250	QPL6.pdf
FPQ1553-10	M21038/27-20	1CT:2.12CT/1CT:1.5CT	4,000	.625 / .625 / .250	QPL6.pdf
SMQ1553-10	M21038/27-15	1CT:2.12CT/1CT:1.5CT	4,000	.625 / .625 / .250	QPL6.pdf
FPQ1553-45	M21038/27-31	1CT:2.5CT/1CT:1.79CT	4,000	.625 / .625 / .250	QPL6.pdf
SMQ1553-45	M21038/27-15	1CT:2.5CT/1CT:1.79CT	4,000	.625 / .625 / .250	QPL6.pdf

1. **Part number options:** C and T level QPL testing (xxQC1553-xx, xxQT1553-xx, M21038/27-xxC, M21038/27-xxT).

2. **Data Sheet posted on web at** <http://www.pulsespecialty.com/pdfs/qpl6.pdf>

**Summary Performance Specifications:** Droop = 20%, Overshoot = ±1 V MAX,

**Common Mode Rejection** = 45 dB, **Frequency Range** (no load) = 75 kHz to 1 MHz,

**Operating Temperature Range** = -55°C to +130°C, **Weight** = 5 grams, **Insulation Resistance** = 10K MΩ @ 250 Vdc, **Dielectric Withstanding Voltage** = 100 Vrms

\*Mounting: FP = Flat Pack TH = Through Hole SM = Surface Mount

## MIL-STD-1553 INTERFACE TRANSFORMERS

### COTS Series <sup>1</sup>

Part <sup>2</sup> Number	Turns Ratio (±3%)	Impedance (Ω MIN)	Package* (L/W/H) in.	Data <sup>3</sup> Sheet
x1553-1	1CT:1CT/1CT:.707CT	4,000	.625 / .625 / .250	NQPLC2.pdf
x1553-2	1.4CT:1CT/2CT:1CT	7,200	.625 / .625 / .250	NQPLC2.pdf
x1553-3	1.25CT:1CT/1.66CT:1CT	4,000	.625 / .625 / .250	NQPLC2.pdf
x1553-5	1CT:2.12CT/1.5CT:1CT	4,000	.625 / .625 / .250	NQPLC2.pdf
x1553-45	1CT:2.5CT/1CT:1.79CT	4,000	.625 / .625 / .250	NQPLC2.pdf

1. **Designed and built to conform to MIL-PRF-21038/27**

2. **Prefix Operating Temperature:**

C	0° to +70°C
N	-40°C to +85°C
TQ	-55°C to +125°C

3. **Data Sheet posted on web:** <http://www.pulsespecialty.com/pdfs/NQPLC2.pdf>

# POWER PRODUCTS



Pulse offers a complete range of power magnetics for DC-DC converter and AC-DC applications. These magnetics include power inductors, low-frequency laminated and high-frequency switching power transformers, current sense magnetics, gate drive transformers and common mode chokes.

Pulse designs and manufactures a broad selection of packaging options from various through hole devices to state-of-the-art, high-density, surface mount planar platforms.

In addition to the power magnetics listed in this catalog, Pulse also designs and manufactures a wide array of custom and semi-custom magnetics.

Please contact Pulse Power Applications Engineering for more information.

## POWER INDUCTORS

### SMT Drum Core Inductors — Unshielded

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P0770 Series: Up to 2.9 A (1 μH to 220 μH) – 6.6mm x 4.5mm x 2.9mm</b>					
P0770.102	1.0	2.90	50	6.6 / 4.5 / 2.9	PC500
P0770.152	1.5	2.60	50	6.6 / 4.5 / 2.9	PC500
P0770.222	2.2	2.30	70	6.6 / 4.5 / 2.9	PC500
P0770.332	3.3	2.00	80	6.6 / 4.5 / 2.9	PC500
P0770.472	4.7	1.50	90	6.6 / 4.5 / 2.9	PC500
P0770.682	6.8	1.20	130	6.6 / 4.5 / 2.9	PC500
P0770.103	10	1.10	160	6.6 / 4.5 / 2.9	PC500
P0770.153	15	0.90	230	6.6 / 4.5 / 2.9	PC500
P0770.223	22	0.70	370	6.6 / 4.5 / 2.9	PC500
P0770.333	33	0.58	510	6.6 / 4.5 / 2.9	PC500
P0770.473	47	0.50	640	6.6 / 4.5 / 2.9	PC500
P0770.683	68	0.40	860	6.6 / 4.5 / 2.9	PC500
P0770.104	100	0.30	1270	6.6 / 4.5 / 2.9	PC500
P0770.154	150	0.25	2000	6.6 / 4.5 / 2.9	PC500
P0770.224	220	0.20	2650	6.6 / 4.5 / 2.9	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PG0063 Series: Up to 3.5 A (.9 μH to 900 μH) – 6.2mm x 6.2mm x 2.5mm</b>					
PG0063.102	.9	3.5	22	6.2 / 6.2 / 2.5	PC500
PG0063.152	1.3	3	30	6.2 / 6.2 / 2.5	PC500
PG0063.222	1.9	2.5	40	6.2 / 6.2 / 2.5	PC500
PG0063.332	2.9	2.0	65	6.2 / 6.2 / 2.5	PC500
PG0063.472	4.2	1.8	90	6.2 / 6.2 / 2.5	PC500
PG0063.682	6.1	1.5	105	6.2 / 6.2 / 2.5	PC500
PG0063.103	9	1.2	150	6.2 / 6.2 / 2.5	PC500
PG0063.153	13	1.0	210	6.2 / 6.2 / 2.5	PC500
PG0063.223	19	.8	290	6.2 / 6.2 / 2.5	PC500
PG0063.333	29	.65	400	6.2 / 6.2 / 2.5	PC500
PG0063.473	42	.55	565	6.2 / 6.2 / 2.5	PC500
PG0063.683	61	.50	800	6.2 / 6.2 / 2.5	PC500
PG0063.104	90	.40	1205	6.2 / 6.2 / 2.5	PC500
PG0063.154	130	.30	2020	6.2 / 6.2 / 2.5	PC500
PG0063.224	190	.26	2220	6.2 / 6.2 / 2.5	PC500
PG0063.334	290	.20	3365	6.2 / 6.2 / 2.5	PC500
PG0063.474	420	.16	5040	6.2 / 6.2 / 2.5	PC500
PG0063.684	610	.14	7380	6.2 / 6.2 / 2.5	PC500
PG0063.105	900	.12	11340	6.2 / 6.2 / 2.5	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P0751/52 Series: Up to 6.8 A (1 μH to 1000 μH) – 13.0mm x 9.4mm x 5.5mm</b>					
P0751.102	1.0	6.8	9	13.0 / 9.4 / 5.5	PC500
P0751.152	1.5	6.4	10	13.0 / 9.4 / 5.5	PC500
P0751.222	2.2	6.1	12	13.0 / 9.4 / 5.5	PC500
P0751.332	3.3	5.4	15	13.0 / 9.4 / 5.5	PC500
P0751.472	4.7	4.8	18	13.0 / 9.4 / 5.5	PC500
P0751.682	6.8	4.4	22	13.0 / 9.4 / 5.5	PC500
P0751.103	10	3.8	38	13.0 / 9.4 / 5.5	PC500
P0751.153	15	3	46	13.0 / 9.4 / 5.5	PC500
P0751.223	22	2.6	85	13.0 / 9.4 / 5.5	PC500
P0751.333	33	2	100	13.0 / 9.4 / 5.5	PC500
P0751.473	47	1.6	140	13.0 / 9.4 / 5.5	PC500
P0751.683	68	1.4	180	13.0 / 9.4 / 5.5	PC500
P0752.104	100	1.2	260	13.0 / 9.4 / 5.5	PC500
P0752.154	150	1	380	13.0 / 9.4 / 5.5	PC500
P0752.224	220	.8	610	13.0 / 9.4 / 5.5	PC500
P0752.334	330	.6	930	13.0 / 9.4 / 5.5	PC500
P0752.474	470	.5	1270	13.0 / 9.4 / 5.5	PC500
P0752.684	680	.4	1840	13.0 / 9.4 / 5.5	PC500
P0752.105	1000	.3	2880	13.0 / 9.4 / 5.5	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P0762 Series: Up to 2.0 A (10 μH to 1000 μH) – 13.0mm x 9.4mm x 3.0mm</b>					
P0762.103	10	2	110	13.0 / 9.4 / 3.0	PC500
P0762.153	15	1.5	150	13.0 / 9.4 / 3.0	PC500
P0762.223	22	1.3	230	13.0 / 9.4 / 3.0	PC500
P0762.333	33	1.1	300	13.0 / 9.4 / 3.0	PC500
P0762.473	47	.8	390	13.0 / 9.4 / 3.0	PC500
P0762.683	68	.7	660	13.0 / 9.4 / 3.0	PC500
P0762.104	100	.6	840	13.0 / 9.4 / 3.0	PC500
P0762.154	150	.5	1200	13.0 / 9.4 / 3.0	PC500
P0762.224	220	.4	1900	13.0 / 9.4 / 3.0	PC500
P0762.334	330	.3	2700	13.0 / 9.4 / 3.0	PC500
P0762.474	470	.2	4000	13.0 / 9.4 / 3.0	PC500
P0762.684	680	.1	5300	13.0 / 9.4 / 3.0	PC500
P0762.105	1000	.05	8400	13.0 / 9.4 / 3.0	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P0250 Series: Up to 8.6 A (1 μH to 1000 μH) – 18.5mm x 15.0mm x 7.1mm</b>					
P0250.102	1.0	8.6	9	18.5 / 15.0 / 7.1	PC500
P0250.222	2.2	7.1	14	18.5 / 15.0 / 7.1	PC500
P0250.332	3.3	6.2	15	18.5 / 15.0 / 7.1	PC500
P0250.562	5.6	5.3	20	18.5 / 15.0 / 7.1	PC500
P0250.103	10	4.3	31	18.5 / 15.0 / 7.1	PC500
P0250.153	15	4.0	36	18.5 / 15.0 / 7.1	PC500
P0250.223	22	3.5	47	18.5 / 15.0 / 7.1	PC500
P0250.333	33	3.0	66	18.5 / 15.0 / 7.1	PC500
P0250.473	47	2.6	86	18.5 / 15.0 / 7.1	PC500
P0250.683	68	2.3	130	18.5 / 15.0 / 7.1	PC500
P0250.104	100	1.8	190	18.5 / 15.0 / 7.1	PC500
P0250.154	150	1.5	250	18.5 / 15.0 / 7.1	PC500
P0250.224	220	1.2	380	18.5 / 15.0 / 7.1	PC500
P0250.334	330	1.0	560	18.5 / 15.0 / 7.1	PC500
P0250.474	470	.82	850	18.5 / 15.0 / 7.1	PC500
P0250.684	680	.72	1100	18.5 / 15.0 / 7.1	PC500
P0250.105	1000	.56	1800	18.5 / 15.0 / 7.1	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1252 Series: Up to 15 A (.78 μH to 10 μH) – 22.2mm x 15.0mm x 7.5mm</b>					
P1252.781	.78	15	2.6	22.2 / 15.0 / 7.5	PC500
P1252.152	1.5	15	4	22.2 / 15.0 / 7.5	PC500
P1252.222	2.2	12	6.1	22.2 / 15.0 / 7.5	PC500
P1252.332	3.3	10	8.6	22.2 / 15.0 / 7.5	PC500
P1252.392	3.9	9	10	22.2 / 15.0 / 7.5	PC500
P1252.472	4.7	8.4	14	22.2 / 15.0 / 7.5	PC500
P1252.602	6.0	7.5	17	22.2 / 15.0 / 7.5	PC500
P1252.782	7.8	7.5	18	22.2 / 15.0 / 7.5	PC500
P1252.103	10.0	6.0	26	22.2 / 15.0 / 7.5	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P0648 Series: Up to 12.2 A (1 μH to 1030 μH) – 13.1mm x 13.1mm x 5.0mm</b>					
P0648.102	1.05	12.2	5.5	13.1 / 13.1 / 5.0	PC500
P0648.192	1.9	9.6	7.5	13.1 / 13.1 / 5.0	PC500
P0648.282	2.8	8.1	9.8	13.1 / 13.1 / 5.0	PC500
P0648.342	3.4	7.6	9.6	13.1 / 13.1 / 5.0	PC500
P0648.462	4.6	6.5	15.5	13.1 / 13.1 / 5.0	PC500
P0648.682	6.8	5.1	22	13.1 / 13.1 / 5.0	PC500
P0648.103	10.2	4.3	33	13.1 / 13.1 / 5.0	PC500
P0648.153	15.2	3.6	44	13.1 / 13.1 / 5.0	PC500
P0648.223	22	3.3	61	13.1 / 13.1 / 5.0	PC500
P0648.323	32	2.5	90	13.1 / 13.1 / 5.0	PC500

P0648 Series continued on next page



## POWER INDUCTORS *(continued)*

### SMT Drum Core Inductors — Unshielded *(continued)*

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P0648 Series: Up to 12.2 A (1 μH to 1030 μH) – 13.1mm x 13.1mm x 5.0mm</b> <i>(continued)</i>					
P0648.463	46	2.1	148	13.1 / 13.1 / 5.0	PC500
P0648.653	65	1.8	166	13.1 / 13.1 / 5.0	PC500
P0648.104	100	1.4	262	13.1 / 13.1 / 5.0	PC500
P0648.154	152	1.2	410	13.1 / 13.1 / 5.0	PC500
P0648.214	214	1.0	557	13.1 / 13.1 / 5.0	PC500
P0648.324	320	0.9	880	13.1 / 13.1 / 5.0	PC500
P0648.454	450	0.8	1230	13.1 / 13.1 / 5.0	PC500
P0648.644	645	0.6	1660	13.1 / 13.1 / 5.0	PC500
P0648.105	1030	0.5	2680	13.1 / 13.1 / 5.0	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PB2020 Series: Up to 30 A (.65 μH to 29 μH) – 23.9mm x 20.8mm x 10.2mm</b>					
PB2020.681	.65	30	1.8	23.9 / 20.8 / 10.2	PC500
PB2020.102	.85	23.7	2.2	23.9 / 20.8 / 10.2	PC500
PB2020.222	1.83	21.8	2.6	23.9 / 20.8 / 10.2	PC500
PB2020.332	3	18.3	3.7	23.9 / 20.8 / 10.2	PC500
PB2020.472	4	16.8	4.4	23.9 / 20.8 / 10.2	PC500
PB2020.682	5.8	13.6	6.7	23.9 / 20.8 / 10.2	PC500
PB2020.103	8.3	12.6	7.8	23.9 / 20.8 / 10.2	PC500
PB2020.153	13	9.7	13.0	23.9 / 20.8 / 10.2	PC500
PB2020.223	18	8.1	19.0	23.9 / 20.8 / 10.2	PC500
PB2020.333	29	6.5	29.0	23.9 / 20.8 / 10.2	PC500

### SMT Drum Core Inductors — Shielded (.01 A to 14 A)

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PG0040/41 Series: Up to 1.2 A (.7 μH to 3500 μH) – 6.7mm x 4.5mm x 2.0mm</b>					
PG0040.102	.7	1.2	40	6.7 / 4.5 / 2.0	PC500
PG0040.152	1.0	1.0	54	6.7 / 4.5 / 2.0	PC500
PG0040.222	1.5	.96	64	6.7 / 4.5 / 2.0	PC500
PG0040.332	2.3	.75	68	6.7 / 4.5 / 2.0	PC500
PG0040.472	3.3	.65	74	6.7 / 4.5 / 2.0	PC500
PG0040.682	4.8	.50	89	6.7 / 4.5 / 2.0	PC500
PG0040.103	7.0	.40	106	6.7 / 4.5 / 2.0	PC500
PG0040.153	10.5	.30	154	6.7 / 4.5 / 2.0	PC500
PG0040.223	15.4	.23	188	6.7 / 4.5 / 2.0	PC500
PG0040.333	23.1	.205	278	6.7 / 4.5 / 2.0	PC500
PG0040.473	32.9	.195	406	6.7 / 4.5 / 2.0	PC500
PG0040.683	47.6	.150	594	6.7 / 4.5 / 2.0	PC500
PG0040.104	70	.120	857	6.7 / 4.5 / 2.0	PC500
PG0040.154	105	.105	1397	6.7 / 4.5 / 2.0	PC500
PG0040.224	154	.096	1683	6.7 / 4.5 / 2.0	PC500
PG0041.334	231	.070	2650	6.7 / 4.5 / 2.0	PC500
PG0041.474	329	.062	3830	6.7 / 4.5 / 2.0	PC500
PG0041.604	420	.048	4520	6.7 / 4.5 / 2.0	PC500
PG0041.684	476	.045	4800	6.7 / 4.5 / 2.0	PC500
PG0041.824	574	.040	6350	6.7 / 4.5 / 2.0	PC500
PG0041.105	700	.035	6800	6.7 / 4.5 / 2.0	PC500
PG0041.205	1400	.032	15600	6.7 / 4.5 / 2.0	PC500
PG0041.305	2100	.024	26000	6.7 / 4.5 / 2.0	PC500
PG0041.505	3500	.019	39000	6.7 / 4.5 / 2.0	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1174 Series: Up to 3.0 A (.7 μH to 4900 μH) – 6.7mm x 4.5mm x 2.8mm</b>					
P1174.102	0.74	3	13	6.7 / 4.5 / 2.8	PC500
P1174.152	1	2	15	6.7 / 4.5 / 2.8	PC500
P1174.222	1.575	1.65	18	6.7 / 4.5 / 2.8	PC500
P1174.332	2.26	1.3	21	6.7 / 4.5 / 2.8	PC500
P1174.472	3.43	1	30	6.7 / 4.5 / 2.8	PC500
P1174.682	4.76	0.9	51	6.7 / 4.5 / 2.8	PC500
P1174.103	7.21	0.8	73	6.7 / 4.5 / 2.8	PC500
P1174.153	13.8	0.6	90	6.7 / 4.5 / 2.8	PC500
P1174.223	17.8	0.5	120	6.7 / 4.5 / 2.8	PC500
P1174.333	25.5	0.4	188	6.7 / 4.5 / 2.8	PC500
P1174.473	32.4	0.45	230	6.7 / 4.5 / 2.8	PC500
P1174.683	45.13	0.32	370	6.7 / 4.5 / 2.8	PC500
P1174.104	74.16	0.28	470	6.7 / 4.5 / 2.8	PC500
P1174.154	108.7	0.22	620	6.7 / 4.5 / 2.8	PC500
P1174.224	160.82	0.15	950	6.7 / 4.5 / 2.8	PC500
P1174.334	208	0.13	1340	6.7 / 4.5 / 2.8	PC500
P1174.474	350	0.13	1800	6.7 / 4.5 / 2.8	PC500
P1174.604	412	0.12	2550	6.7 / 4.5 / 2.8	PC500
P1174.684	500	0.1	2650	6.7 / 4.5 / 2.8	PC500
P1174.105	744	0.07	4000	6.7 / 4.5 / 2.8	PC500
P1174.505	4900.0	0.05	18500	6.7 / 4.5 / 2.8	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1166 Series: Up to 5.5 A (.44 μH to 750 μH) – 7.6mm x 7.6mm x 3.5mm</b>					
P1166.681	.44	5.5	6.0	7.6 / 7.6 / 3.5	PC500
P1166.183	13.5	1.2	124	7.6 / 7.6 / 3.5	PC500
P1166.223	16.5	1.2	126	7.6 / 7.6 / 3.5	PC500
P1166.273	20.3	1.0	180	7.6 / 7.6 / 3.5	PC500
P1166.333	24.8	0.94	205	7.6 / 7.6 / 3.5	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1166 Series: Up to 5.5 A (.44 μH to 750 μH) – 7.6mm x 7.6mm x 3.5mm</b> <i>(continued)</i>					
P1166.393	29.3	0.86	211	7.6 / 7.6 / 3.5	PC500
P1166.473	35.3	0.83	260	7.6 / 7.6 / 3.5	PC500
P1166.563	42.0	0.73	340	7.6 / 7.6 / 3.5	PC500
P1166.683	51	0.67	370	7.6 / 7.6 / 3.5	PC500
P1166.823	61.5	0.60	500	7.6 / 7.6 / 3.5	PC500
P1166.104	75	0.56	580	7.6 / 7.6 / 3.5	PC500
P1166.124	90	0.53	645	7.6 / 7.6 / 3.5	PC500
P1166.154	113	0.46	860	7.6 / 7.6 / 3.5	PC500
P1166.184	135	0.39	1190	7.6 / 7.6 / 3.5	PC500
P1166.224	165	0.35	1480	7.6 / 7.6 / 3.5	PC500
P1166.274	203	0.32	1750	7.6 / 7.6 / 3.5	PC500
P1166.334	248	0.31	1880	7.6 / 7.6 / 3.5	PC500
P1166.394	293	0.26	2600	7.6 / 7.6 / 3.5	PC500
P1166.474	353	0.25	2910	7.6 / 7.6 / 3.5	PC500
P1166.564	420	0.23	3400	7.6 / 7.6 / 3.5	PC500
P1166.684	510	0.20	4450	7.6 / 7.6 / 3.5	PC500
P1166.824	615	0.17	6200	7.6 / 7.6 / 3.5	PC500
P1166.105	750	0.15	8000	7.6 / 7.6 / 3.5	PC500

Part Number	Inductance @ I <sub>RATED</sub> (μH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1167 Series: Up to 3.5 A (1.8 μH to 750 μH) – 7.6mm x 7.6mm x 4.5mm</b>					
P1167.272	1.8	3.5	16	7.6 / 7.6 / 4.5	PC500
P1167.362	2.3	3.1	20	7.6 / 7.6 / 4.5	PC500
P1167.452	2.9	2.6	30	7.6 / 7.6 / 4.5	PC500
P1167.542	3.5	2.5	33	7.6 / 7.6 / 4.5	PC500
P1167.632	4.1	2.4	35	7.6 / 7.6 / 4.5	PC500
P1167.103	7.5	2.0	50	7.6 / 7.6 / 4.5	PC500
P1167.123	9.0	1.9	57	7.6 / 7.6 / 4.5	PC500
P1167.153	11.3	1.7	66	7.6 / 7.6 / 4.5	PC500
P1167.183	13.5	1.5	73	7.6 / 7.6 / 4.5	PC500
P1167.223	16.5	1.4	105	7.6 / 7.6 / 4.5	PC500
P1167.273	20.3	1.2	130	7.6 / 7.6 / 4.5	PC500
P1167.333	24.8	1.1	170	7.6 / 7.6 / 4.5	PC500
P1167.393	29.3	1.0	200	7.6 / 7.6 / 4.5	PC500
P1167.473	35.3	0.94	220	7.6 / 7.6 / 4.5	PC500
P1167.563	42.0	0.86	270	7.6 / 7.6 / 4.5	PC500
P1167.683	51	0.78	310	7.6 / 7.6 / 4.5	PC500
P1167.823	61.5	0.70	350	7.6 / 7.6 / 4.5	PC500
P1167.104	75	0.63	390	7.6 / 7.6 / 4.5	PC500
P1167.124	90	0.57	530	7.6 / 7.6 / 4.5	PC500
P1167.154	113	0.52	610	7.6 / 7.6 / 4.5	PC500
P1167.184	135	0.47	820	7.6 / 7.6 / 4.5	PC500
P1167.224	165	0.43	930	7.6 / 7.6 / 4.5	PC500
P1167.274	203	0.39	1040	7.6 / 7.6 / 4.5	PC500
P1167.334	248	0.35	1470	7.6 / 7.6 / 4.5	PC500
P1167.394	293	0.32	1570	7.6 / 7.6 / 4.5	PC500
P1167.474	353	0.29	2180	7.6 / 7.6 / 4.5	PC500
P1167.564	420	0.26	2960	7.6 / 7.6 / 4.5	PC500
P1167.684	510	0.23	3180	7.6 / 7.6 / 4.5	PC500
P1167.824	615	0.21	3500	7.6 / 7.6 / 4.5	PC500
P1167.105	750	0.19	4930	7.6 / 7.6 / 4.5	PC500

\*\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).



## POWER INDUCTORS (continued)

### SMT Drum Core Inductors — Shielded (.01 A to 14 A) (continued)

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1169 Series: Up to 14 A (.32 µH to 750 µH) – 12.3mm x 12.3mm x 4.5mm</b>					
P1169.501	.32	14	2.3	12.3 / 12.3 / 4.5	PC500
P1169.102	.65	11	3.7	12.3 / 12.3 / 4.5	PC500
P1169.162	1.0	8.5	6.3	12.3 / 12.3 / 4.5	PC500
P1169.242	1.6	7.5	8.1	12.3 / 12.3 / 4.5	PC500
P1169.332	2.2	6.4	11	12.3 / 12.3 / 4.5	PC500
P1169.452	2.9	6.0	13	12.3 / 12.3 / 4.5	PC500
P1169.562	3.6	5.5	15	12.3 / 12.3 / 4.5	PC500
P1169.682	4.4	4.6	22	12.3 / 12.3 / 4.5	PC500
P1169.103	7.5	3.6	35	12.3 / 12.3 / 4.5	PC500
P1169.123	9.0	3.5	37	12.3 / 12.3 / 4.5	PC500
P1169.153	11.3	3.1	47	12.3 / 12.3 / 4.5	PC500
P1169.183	13.5	2.8	58	12.3 / 12.3 / 4.5	PC500
P1169.223	16.5	2.6	67	12.3 / 12.3 / 4.5	PC500
P1169.273	20.3	2.4	79	12.3 / 12.3 / 4.5	PC500
P1169.333	24.8	2.2	94	12.3 / 12.3 / 4.5	PC500
P1169.393	29.3	1.9	126	12.3 / 12.3 / 4.5	PC500
P1169.473	35.3	1.8	140	12.3 / 12.3 / 4.5	PC500
P1169.563	42.0	1.7	157	12.3 / 12.3 / 4.5	PC500
P1169.683	51.0	1.5	202	12.3 / 12.3 / 4.5	PC500
P1169.823	61.5	1.4	232	12.3 / 12.3 / 4.5	PC500
P1169.104	75.0	1.2	270	12.3 / 12.3 / 4.5	PC500
P1169.124	90.0	1.1	316	12.3 / 12.3 / 4.5	PC500
P1169.154	113	1.0	456	12.3 / 12.3 / 4.5	PC500
P1169.184	135	0.90	497	12.3 / 12.3 / 4.5	PC500
P1169.224	165	0.80	681	12.3 / 12.3 / 4.5	PC500
P1169.274	203	0.70	775	12.3 / 12.3 / 4.5	PC500
P1169.334	248	0.66	955	12.3 / 12.3 / 4.5	PC500
P1169.394	293	0.62	1087	12.3 / 12.3 / 4.5	PC500
P1169.474	353	0.57	1403	12.3 / 12.3 / 4.5	PC500
P1169.564	420	0.53	1623	12.3 / 12.3 / 4.5	PC500
P1169.684	510	0.50	1824	12.3 / 12.3 / 4.5	PC500
P1169.824	615	0.44	2355	12.3 / 12.3 / 4.5	PC500
P1169.105	750	0.40	2850	12.3 / 12.3 / 4.5	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1171 Series: Up to 3 A (.6 µH to 750 µH) – 12.3mm x 12.3mm x 6.0mm</b>					
P1171.901	.6	13	2.9	12.3 / 12.3 / 6.0	PC500
P1171.142	.9	11	4.2	12.3 / 12.3 / 6.0	PC500
P1171.222	1.5	9.6	5.7	12.3 / 12.3 / 6.0	PC500
P1171.302	2.0	8.3	7.7	12.3 / 12.3 / 6.0	PC500
P1171.392	2.5	7.0	10	12.3 / 12.3 / 6.0	PC500
P1171.502	3.3	6.4	12	12.3 / 12.3 / 6.0	PC500
P1171.642	4.2	5.3	18	12.3 / 12.3 / 6.0	PC500
P1171.103	7.5	4.4	25	12.3 / 12.3 / 6.0	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1171 Series: Up to 13 A (.6 µH to 750 µH) – 12.3mm x 12.3mm x 6.0mm (continued)</b>					
P1171.123	9.0	4.2	27	12.3 / 12.3 / 6.0	PC500
P1171.153	11.3	4.0	30	12.3 / 12.3 / 6.0	PC500
P1171.183	13.5	3.4	40	12.3 / 12.3 / 6.0	PC500
P1171.223	16.5	3.0	45	12.3 / 12.3 / 6.0	PC500
P1171.273	20.3	2.7	51	12.3 / 12.3 / 6.0	PC500
P1171.333	24.8	2.6	70	12.3 / 12.3 / 6.0	PC500
P1171.393	29.3	2.4	75	12.3 / 12.3 / 6.0	PC500
P1171.473	35.3	2.2	100	12.3 / 12.3 / 6.0	PC500
P1171.563	42.0	2.0	110	12.3 / 12.3 / 6.0	PC500
P1171.683	51.0	1.8	120	12.3 / 12.3 / 6.0	PC500
P1171.823	61.5	1.7	158	12.3 / 12.3 / 6.0	PC500
P1171.104	75.0	1.4	230	12.3 / 12.3 / 6.0	PC500
P1171.124	90.0	1.3	253	12.3 / 12.3 / 6.0	PC500
P1171.154	113	1.2	280	12.3 / 12.3 / 6.0	PC500
P1171.184	135	1.1	310	12.3 / 12.3 / 6.0	PC500
P1171.224	165	1.0	400	12.3 / 12.3 / 6.0	PC500
P1171.274	203	0.91	460	12.3 / 12.3 / 6.0	PC500
P1171.334	248	0.82	530	12.3 / 12.3 / 6.0	PC500
P1171.394	293	0.72	690	12.3 / 12.3 / 6.0	PC500
P1171.474	353	0.68	770	12.3 / 12.3 / 6.0	PC500
P1171.564	420	0.63	1060	12.3 / 12.3 / 6.0	PC500
P1171.684	510	0.57	1200	12.3 / 12.3 / 6.0	PC500
P1171.824	615	0.52	1550	12.3 / 12.3 / 6.0	PC500
P1171.105	750	0.46	1750	12.3 / 12.3 / 6.0	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>P1173 Series: Up to 14 A (.8 µH to 750 µH) – 12.3mm x 12.3mm x 8.0mm</b>					
P1173.132	.8	14	3.0	12.3 / 12.3 / 8.0	PC500
P1173.202	1.3	10	6.0	12.3 / 12.3 / 8.0	PC500
P1173.272	1.8	9.0	7.3	12.3 / 12.3 / 8.0	PC500
P1173.372	2.4	8.3	8.5	12.3 / 12.3 / 8.0	PC500
P1173.472	3.1	7.9	9.5	12.3 / 12.3 / 8.0	PC500
P1173.602	3.9	6.0	16.5	12.3 / 12.3 / 8.0	PC500
P1173.762	4.9	5.7	18.5	12.3 / 12.3 / 8.0	PC500
P1173.103	7.5	5.2	21.8	12.3 / 12.3 / 8.0	PC500
P1173.123	9.0	4.5	29.0	12.3 / 12.3 / 8.0	PC500
P1173.153	11.3	4.1	35.4	12.3 / 12.3 / 8.0	PC500
P1173.183	13.5	4.0	37.0	12.3 / 12.3 / 8.0	PC500
P1173.223	16.5	3.8	42.0	12.3 / 12.3 / 8.0	PC500
P1173.273	20.3	3.4	45.9	12.3 / 12.3 / 8.0	PC500
P1173.333	24.8	3.0	64.8	12.3 / 12.3 / 8.0	PC500
P1173.393	29.3	2.7	81.5	12.3 / 12.3 / 8.0	PC500
P1173.473	35.3	2.6	89.0	12.3 / 12.3 / 8.0	PC500
P1173.683	51.0	2.1	135.0	12.3 / 12.3 / 8.0	PC500

### SMT Toroidal Inductors — Shielded (.31 A to 38 A)

Part Number*	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Ros 1 Series: Up to 2.0 A (.51 µH to 127 µH) – 8.1mm x 5.3mm x 3.2mm</b>					
P0430	0.51	2.00	16.1	8.1 / 5.3 / 3.2	PC500
P0431	0.76	1.90	20.7	8.1 / 5.3 / 3.2	PC500
P0432	0.85	1.50	20.7	8.1 / 5.3 / 3.2	PC500
P0433	1.44	1.20	32.2	8.1 / 5.3 / 3.2	PC500
P0434	1.87	1.20	39.1	8.1 / 5.3 / 3.2	PC500
P0435	2.72	1.00	46	8.1 / 5.3 / 3.2	PC500
P0436	4.33	0.70	84	8.1 / 5.3 / 3.2	PC500
P0437	5.35	0.60	115	8.1 / 5.3 / 3.2	PC500
P0438	8.84	0.50	161	8.1 / 5.3 / 3.2	PC500
P0439	10.79	0.45	178	8.1 / 5.3 / 3.2	PC500
P0440	17.59	0.34	288	8.1 / 5.3 / 3.2	PC500
P0441	25.50	0.29	322	8.1 / 5.3 / 3.2	PC500
P0442	35.80	0.24	506	8.1 / 5.3 / 3.2	PC500
P0443	52.70	0.20	747	8.1 / 5.3 / 3.2	PC500
P0444	79	0.17	1208	8.1 / 5.3 / 3.2	PC500
P0445	88	0.16	1225	8.1 / 5.3 / 3.2	PC500
P0446	127	0.14	1840	8.1 / 5.3 / 3.2	PC500

Part Number*	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PA0040 Series: Up to 1.84 A (.8 µH to 32 µH) – 7.8mm x 5.2mm x 1.8mm</b>					
PA0040.102	0.80	1.84	103	7.8 / 5.2 / 1.8	PC500
PA0040.222	1.60	1.40	130	7.8 / 5.2 / 1.8	PC500
PA0040.472	3.22	0.98	180	7.8 / 5.2 / 1.8	PC500
PA0040.103	6.96	0.67	240	7.8 / 5.2 / 1.8	PC500
PA0040.153	10.71	0.54	300	7.8 / 5.2 / 1.8	PC500
PA0040.223	15.26	0.45	360	7.8 / 5.2 / 1.8	PC500
PA0040.333	23.59	0.36	556	7.8 / 5.2 / 1.8	PC500
PA0040.473	32.48	0.31	833	7.8 / 5.2 / 1.8	PC500

Part Number*	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Ros 2 Series: Up to 5 A (.51 µH to 357 µH) – 14.0mm x 10.2mm x 5.3mm</b>					
P0450	0.51	5.00	8.7	14.0 / 10.2 / 5.3	PC500
P0451	0.67	5.00	10	14.0 / 10.2 / 5.3	PC500
P0452	1.09	5.00	13.1	14.0 / 10.2 / 5.3	PC500
P0453	1.53	5.00	15	14.0 / 10.2 / 5.3	PC500
P0454	1.78	3.00	17.3	14.0 / 10.2 / 5.3	PC500
P0455	3.74	2.50	26.5	14.0 / 10.2 / 5.3	PC500
P0456	4.76	2.00	30	14.0 / 10.2 / 5.3	PC500
P0457	5.61	1.80	38	14.0 / 10.2 / 5.3	PC500

Ros 2 Series continued on next page.

\*Add "T" suffix to surface mount part number to indicate Tape & Reel packaging.  
 \*\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

SMT - Surface Mount Package

## POWER INDUCTORS (continued)

### SMT Toroidal Inductors: Shielded (.31 A to 38 A) (continued)

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Ros 2 Series: Up to 5A (.51 µH to 357 µH) – 14.0mm x 10.2mm x 5.3mm (continued)</b>					
P0458	9.09	1.50	81	14.0 / 10.2 / 5.3	PC500
P0459	11.47	1.30	69	14.0 / 10.2 / 5.3	PC500
P0460	22.95	1.00	104	14.0 / 10.2 / 5.3	PC500
P0461	39.10	0.90	142	14.0 / 10.2 / 5.3	PC500
P0462	40.80	0.80	276	14.0 / 10.2 / 5.3	PC500
P0463	69.70	0.60	282	14.0 / 10.2 / 5.3	PC500
P0464	76.50	0.50	351	14.0 / 10.2 / 5.3	PC500
P0465	137	0.40	553	14.0 / 10.2 / 5.3	PC500
P0466	182	0.35	784	14.0 / 10.2 / 5.3	PC500
P0467	272	0.30	1185	14.0 / 10.2 / 5.3	PC500
P0468	357	0.25	1380	14.0 / 10.2 / 5.3	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Bobcat/Polecat Series: Up to 8.3 A (2 µH to 439 µH) – 12.7mm x 12.7mm x 5.5mm</b>					
P0174	2	8.3	7.6	12.7 / 12.7 / 5.5	PC500
P0175	2.4	7.2	10.9	12.7 / 12.7 / 5.5	PC500
P0176	5	5.2	19	12.7 / 12.7 / 5.5	PC500
P0174	7.8	4.2	30.3	12.7 / 12.7 / 5.5	PC500
P0177	9.3	3.8	29.8	12.7 / 12.7 / 5.5	PC500
P0144	9.4	3.8	27	12.7 / 12.7 / 5.5	PC500
P0175	9.6	3.6	43.6	12.7 / 12.7 / 5.5	PC500
P0145	13.3	3.1	40	12.7 / 12.7 / 5.5	PC500
P0178	14.1	3.1	45.3	12.7 / 12.7 / 5.5	PC500
P0179	19.8	2.6	66.3	12.7 / 12.7 / 5.5	PC500
P0176	20	2.6	76	12.7 / 12.7 / 5.5	PC500
P0146	23	2.4	65	12.7 / 12.7 / 5.5	PC500
P0180	29.3	2.2	106	12.7 / 12.7 / 5.5	PC500
P0177	37.3	1.9	119	12.7 / 12.7 / 5.5	PC500
P0181	42.6	1.8	150.8	12.7 / 12.7 / 5.5	PC500
P0147	50	1.7	121	12.7 / 12.7 / 5.5	PC500
P0178	56.2	1.6	181	12.7 / 12.7 / 5.5	PC500
P0182	61.3	1.5	224.3	12.7 / 12.7 / 5.5	PC500
P0148	75	1.4	181	12.7 / 12.7 / 5.5	PC500
P0179	79	1.3	265	12.7 / 12.7 / 5.5	PC500
P0183	84.2	1.2	323.8	12.7 / 12.7 / 5.5	PC500
P0149	90	1.2	246	12.7 / 12.7 / 5.5	PC500
P0180	117.3	1.1	424	12.7 / 12.7 / 5.5	PC500
P0150	137	1	387	12.7 / 12.7 / 5.5	PC500
P0151	200	.81	585	12.7 / 12.7 / 5.5	PC500
P0152	305	.65	845	12.7 / 12.7 / 5.5	PC500
P0153	439	.53	1322	12.7 / 12.7 / 5.5	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Tomcat Series: Up to 14.4 A (1.5 µH to 139 µH) – 18.2mm x 15.0mm x 7.6mm</b>					
P0395	1.50	14.40	4.40	18.2 / 15.0 / 7.6	PC500
P0396	2.40	11.20	6.55	18.2 / 15.0 / 7.6	PC500
P0397	4.20	8.20	10.48	18.2 / 15.0 / 7.6	PC500
P0398	5.80	6.80	7.88	18.2 / 15.0 / 7.6	PC500
P0395	6.10	7.20	17.60	18.2 / 15.0 / 7.6	PC500
P0399	7.60	5.70	10.13	18.2 / 15.0 / 7.6	PC500
P0396	9.70	5.60	26.20	18.2 / 15.0 / 7.6	PC500
P0400	12.10	5.40	18.53	18.2 / 15.0 / 7.6	PC500
P0397	17.00	4.10	41.90	18.2 / 15.0 / 7.6	PC500
P0401	18.00	4.40	27.50	18.2 / 15.0 / 7.6	PC500
P0398	23.10	3.40	31.50	18.2 / 15.0 / 7.6	PC500
P0402	27.00	3.54	40.45	18.2 / 15.0 / 7.6	PC500
P0399	30.60	2.85	40.50	18.2 / 15.0 / 7.6	PC500
P0403	34.80	3.00	73.90	18.2 / 15.0 / 7.6	PC500
P0400	48.50	2.70	74.10	18.2 / 15.0 / 7.6	PC500
P0401	72.00	2.20	109.80	18.2 / 15.0 / 7.6	PC500
P0402	108.00	1.77	161.80	18.2 / 15.0 / 7.6	PC500
P0403	139.10	1.50	295.60	18.2 / 15.0 / 7.6	PC500

### SLIC Series: Up to 23.8 A (.53 µH to 1070 µH)

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>LCI-20</b>					
PE-53600	6.20	1.40	70	8.6 / 8.6 / 6.9	PC500
PE-53601	17.60	1.00	125	8.6 / 8.6 / 6.9	PC500
PE-53630	1.01	3.40	11	8.6 / 8.6 / 6.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>LCI-30</b>					
PE-53602	29.70	1.40	166	11.2 / 11.1 / 9.2	PC500
PE-53606	114.00	0.94	380	11.2 / 11.1 / 9.2	PC500
PE-53631	9.40	2.80	43.4	11.2 / 11.1 / 9.2	PC500
PE-53650	3.80	4.80	17.3	11.2 / 11.1 / 9.2	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>SLIC Series: Up to 23.8 A (.53 µH to 1070 µH) (continued)</b>					
<b>LCI-37</b>					
PE-53604	58.10	1.30	290	14.5 / 14.4 / 9.2	PC500
PE-53608	192.00	0.90	560	14.5 / 14.4 / 9.2	PC500
PE-53611	383.00	0.72	862	14.5 / 14.4 / 9.2	PC500
PE-53632	16.20	2.70	63.0	14.5 / 14.4 / 9.2	PC500
PE-53651	5.10	5.40	17.7	14.5 / 14.4 / 9.2	PC500
PE-53661	2.50	8.00	8.3	14.5 / 14.4 / 9.2	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>LCI-44</b>					
PE-53613	645.00	0.74	1250	15.8 / 15.2 / 9.9	PC500
PE-53633	29.10	2.70	85.0	15.8 / 15.2 / 9.9	PC500
PE-53652	9.00	5.50	22.3	15.8 / 15.2 / 9.9	PC500
PE-53662	4.90	7.80	12.4	15.8 / 15.2 / 9.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>HCI-37</b>					
PE-53680	1.32	11.50	4.0	15.8 / 15.4 / 9.2	PC500
PE-53690	0.81	14.30	2.5	15.8 / 15.4 / 9.2	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>LCCI-37</b>					
PE-53717	43.60	1.1	309	18.2 / 15.0 / 9.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>HCI-44</b>					
PE-53681	2.50	11.40	5.4	17.0 / 17.0 / 9.9	PC500
PE-53691	1.68	13.90	3.6	17.0 / 17.0 / 10.2	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>LCI-50</b>					
PE-53614	1070.00	0.71	1700	17.8 / 17.0 / 9.9	PC500
PE-53634	50.00	2.60	133	17.8 / 17.0 / 9.9	PC500
PE-53653	16.10	5.10	32.0	17.8 / 17.0 / 9.9	PC500
PE-53663	9.30	7.20	18.7	17.8 / 17.0 / 9.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>LCCI-44</b>					
PE-53718	21.90	2.7	90.5	18.2 / 15.0 / 9.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>HCI-50</b>					
PE-53682	4.70	10.40	8.3	18.8 / 18.8 / 9.9	PC500
PE-53692	3.50	12.40	6.6	18.8 / 18.8 / 10.2	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>LCCI-50</b>					
PE-53719	4.025	6.4	23	19.6 / 17.0 / 9.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>HCCI-44</b>					
PE-53361	0.53	23.8	6.0	22.0 / 18.2 / 9.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>HCCI-50</b>					
PE-53362	1.10	21.0	5.0	23.1 / 20.3 / 9.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>HCI-68</b>					
PE-53700	5.20	15.40	6.2	23.9 / 23.9 / 10.2	PC500
PE-53683	9.40	10.90	12.3	23.9 / 23.9 / 9.9	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>HCCI-68</b>					
PE-53363	2.10	22.4	6.8	28.2 / 25.4 / 10.0	PC500

Part Number*	Inductance @ IRATED (µH)	IRATED (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>HCCI-80 Series: Up to 38 A (1.1 µH to 18 µH) – 31.0mm x 25.4mm x 12.7mm</b>					
P0599	1.10	38.0	1.1	31.0 / 25.4 / 12.7	PC500
P0598	1.60	34.0	1.4	31.0 / 25.4 / 12.7	PC500
P0597	2.45	27.0	2.2	31.0 / 25.4 / 12.7	PC500
P0596	3.20	24.0	3.0	31.0 / 25.4 / 12.7	PC500
P0599	4.30	19.0	4.4	31.0 / 25.4 / 12.7	PC500
P0595	4.52	19.0	4.2	31.0 / 25.4 / 12.7	PC500
P0598	6.40	17.0	5.6	31.0 / 25.4 / 12.7	PC500
P0597	9.80	13.5	8.8	31.0 / 25.4 / 12.7	PC500
P0596	12.80	12.0	12.0	31.0 / 25.4 / 12.7	PC500
P0595	18.10	9.5	16.8	31.0 / 25.4 / 12.7	PC500

\*Add "T" suffix to surface mount part number to indicate Tape & Reel packaging.  
 \*\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).  
 SMT - Surface Mount Package

## POWER INDUCTORS (continued)

### SMT Shaped Core Inductors: Shielded (4 A to 73 A)

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Volta 1 Series: Up to 15A (0.095 µH to 0.475 µH) – 7.0mm x 6.4mm x 3.2mm</b>					
P1681	0.095	15	0.39	7.0 / 6.4 / 3.2	PC500
PA0274	0.475	16	1.8	7.0 / 6.4 / 3.2	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Volta 2 Series: Up to 16A (0.09 µH to 0.600 µH) – 8.6mm x 6.4mm x 4.5mm</b>					
PA0229	0.092	16	0.8	8.6 / 6.4 / 4.5	PC500
P2005	0.142	15	0.56	8.6 / 6.4 / 4.5	PC500
P2004	0.19	15	0.56	8.6 / 6.4 / 4.5	PC500
PA0277	0.6	10.7	2.53	8.6 / 6.4 / 4.5	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PG0067 Series: Up to 17A (.27 µH to 4.9 µH) – 13.0mm x 12.8mm x 4.0 mm</b>					
PG0067.301	0.27	17	1.7	13.0 / 12.8 / 4.0	PC500
PG0067.601	0.5	14	3	13.0 / 12.8 / 4.0	PC500
PG0067.102	0.9	11	4.5	13.0 / 12.8 / 4.0	PC500
PG0067.222	1.9	9	6.8	13.0 / 12.8 / 4.0	PC500
PG0067.332	2.9	8	11.2	13.0 / 12.8 / 4.0	PC500
PG0067.472	4.2	6	15.4	13.0 / 12.8 / 4.0	PC500
PG0067.552	4.9	5	15.4	13.0 / 12.8 / 4.0	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PA0135 Series: Up to 40 A (.07 µH to .9 µH) – 13.0mm x 13.0mm x 7.1mm</b>					
PA0135.331	74	40	.225	13.0 / 13.0 / 7.1	PC500
PA0135.471	105	40	.225	13.0 / 13.0 / 7.1	PC500
PA0135.681	153	34	.225	13.0 / 13.0 / 7.1	PC500
PA0135.102	225	24	.225	13.0 / 13.0 / 7.1	PC500
PA0135.331	297	20	.9	13.0 / 13.0 / 7.1	PC500
PA0135.471	423	20	.9	13.0 / 13.0 / 7.1	PC500
PA0135.681	612	19	.9	13.0 / 13.0 / 7.1	PC500
PA0135.102	900	14	.9	13.0 / 13.0 / 7.1	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PG0006 Series: Up to 28 A (.33 µH to 5.0 µH) – 13.4mm x 13.3mm x 6.0mm</b>					
PG0006.301	0.33	28	0.80	13.4 / 13.3 / 6.0	PC500
PG0006.601	0.5	23	0.80	13.4 / 13.3 / 6.0	PC500
PG0006.102	.9	15.0	1.75	13.4 / 13.3 / 6.0	PC500
PG0006.212	1.89	12.0	3.6	13.4 / 13.3 / 6.0	PC500
PG0006.312	2.79	9.0	7.5	13.4 / 13.3 / 6.0	PC500
PG0006.422	3.78	8.5	7.5	13.4 / 13.3 / 6.0	PC500
PG0006.462	4.14	8.0	10.4	13.4 / 13.3 / 6.0	PC500
PG0006.552	4.95	7.5	12.4	13.4 / 13.3 / 6.0	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PG0077 Series: Up to 33A (.16 µH to 2.7 µH) – 14.5mm x 13.0mm x 6.5mm</b>					
PG0077.181	0.16	33	0.5	14.3 / 13.0 / 6.5	PC500
PG0077.401	0.38	24	0.8	14.3 / 13.0 / 6.5	PC500
PG0077.801	0.75	21	1.3	14.3 / 13.0 / 6.5	PC500
PG0077.142	1.32	18	2.1	14.3 / 13.0 / 6.5	PC500
PG0077.202	1.9	16	2.9	14.3 / 13.0 / 6.5	PC500
PG0077.282	2.65	13	4.2	14.3 / 13.0 / 6.5	PC500

## COMMON MODE INDUCTORS

### SMT Common Mode Chokes - up to 14 Arms

Part Number*	Inductance (µH)	Current (A)	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>500 Vrms</b>					
P0354	1170	1.22	500	12.7 / 12.7 / 5.5	PC500
P0473	884	1.63	500	12.7 / 12.7 / 5.5	PC500
P0351	1590	2.80	500	19.6 / 17.0 / 9.9	PC500
P0420	1320	3.30	500	19.6 / 17.0 / 9.9	PC500
P0421	225	3.30	500	19.6 / 17.0 / 9.9	PC500
P0422	768	4.70	500	19.6 / 17.0 / 9.9	PC500
P0353	590	5.60	500	19.6 / 17.0 / 9.9	PC500
P0527	530	7.20	500	28.2 / 25.4 / 10.0	PC500
P0429	809	9.70	500	31.0 / 25.4 / 12.7	PC500
P0469	630	11.60	500	31.0 / 25.4 / 12.7	PC500
P0502	473	14.00	500	31.0 / 25.4 / 12.7	PC500

Part Number	Inductance (µH)	Current (A)	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>250 Vrms</b>					
PE-53910	1000	3.6	500	19.6 / 17.0 / 9.9	PC500
PE-53911	1000	1.5	500	16.4 / 14.2 / 8.9	PC500
PE-53912	3000	2.5	500	19.6 / 17.0 / 9.9	PC500
PE-53913	10000	1.0	500	16.4 / 14.2 / 8.9	PC500
PE-53914	22000	.50	500	16.4 / 14.2 / 8.9	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PD0120 Series: Up to 15.4 A (1.2 µH to 55.4 µH) – 16.2mm x 16.0mm x 8.2mm</b>					
PD0120.102	1.2	15.4	2.0	16.2 / 16.0 / 8.2	PC500
PD0120.152	1.8	14.2	3.0	16.2 / 16.0 / 8.2	PC500
PD0120.222	2.5	11.4	4.2	16.2 / 16.0 / 8.2	PC500
PD0120.332	4.5	11.2	6.8	16.2 / 16.0 / 8.2	PC500
PD0120.532	5.6	10.4	8.5	16.2 / 16.0 / 8.2	PC500
PD0120.702	7.1	8.6	10.0	16.2 / 16.0 / 8.2	PC500
PD0120.113	12.0	7.6	16.0	16.2 / 16.0 / 8.2	PC500
PD0120.183	18.3	6.4	25.5	16.2 / 16.0 / 8.2	PC500
PD0120.223	22.6	5.3	35.5	16.2 / 16.0 / 8.2	PC500
PD0120.373	39.9	4	58.5	16.2 / 16.0 / 8.2	PC500
PD0120.503	55.4	3.4	82.5	16.2 / 16.0 / 8.2	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PA1294/1292: Up to 73 A (.45 µH to 1.45 µH) – 19.8mm x 19.6mm x 7.4mm</b>					
PA1294.450	0.45	73	0.48	19.8 / 19.6 / 7.4	PC500
PA1294.650	0.63	54	0.48	19.8 / 19.6 / 7.4	PC500
PA1294.910	0.85	39	0.48	19.8 / 19.6 / 7.4	PC500
PA1294.112	1.05	30	0.48	19.8 / 19.6 / 7.4	PC500
PA1294.132	1.25	25	0.48	19.8 / 19.6 / 7.4	PC500
PA1294.152	1.45	21	0.48	19.8 / 19.6 / 7.4	PC500
PA1292.450	0.45	52	0.98	19.8 / 19.6 / 7.4	PC500
PA1292.650	0.63	52	0.98	19.8 / 19.6 / 7.4	PC500
PA1292.910	0.85	39	0.98	19.8 / 19.6 / 7.4	PC500
PA1292.112	1.05	30	0.98	19.8 / 19.6 / 7.4	PC500
PA1292.132	1.25	25	0.98	19.8 / 19.6 / 7.4	PC500
PA1292.152	1.45	21	0.98	19.8 / 19.6 / 7.4	PC500

Part Number	Inductance @ I <sub>RATED</sub> (µH)	I <sub>RATED</sub> (Amps)	DCR (mΩ)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>PA1393/1494: Up to 42 A (.95 µH to 5.8 µH) – 19.8mm x 19.6mm x 7.4mm</b>					
PA1393.102	0.95	42	1.43	19.8 / 19.6 / 7.4	PC500
PA1393.152	1.4	36	1.43	19.8 / 19.6 / 7.4	PC500
PA1393.202	1.9	25	1.43	19.8 / 19.6 / 7.4	PC500
PA1393.252	2.4	20	1.43	19.8 / 19.6 / 7.4	PC500
PA1393.302	2.8	15	1.43	19.8 / 19.6 / 7.4	PC500
PA1393.352	3.4	12	1.43	19.8 / 19.6 / 7.4	PC500
PA1494.162	1.6	37	1.8	19.8 / 19.6 / 7.4	PC500
PA1494.242	2.4	30	1.8	19.8 / 19.6 / 7.4	PC500
PA1494.362	3.3	17	1.8	19.8 / 19.6 / 7.4	PC500
PA1494.442	4	14	1.8	19.8 / 19.6 / 7.4	PC500
PA1494.532	4.9	11	1.8	19.8 / 19.6 / 7.4	PC500
PA1494.622	5.8	9	1.8	19.8 / 19.6 / 7.4	PC500

## GATE DRIVE TRANSFORMERS

### SMT Gate Drive Transformers: 1500 Vdc Operational & Basic Insulation

Part Number	Maximum Volt (µSec)	Turns Ratio	Isolation (Vdc)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Operational Insulation</b>					
PE-68386	9.7	1:1	1500	6.7 / 8.6 / 2.5	PC500
P0926	23.8	1:1:1	1500	3.7 / 8.0 / 5.3	PC500
P0544	45.1	1:1:1	1500	9.0 / 8.6 / 7.6	PC500
PA0264	12.7	1:1:1	1500	6.7 / 8.6 / 3.6	PC500

Part Number	Maximum Volt (µSec)	Turns Ratio	Isolation (Vdc)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>Basic Insulation (1.4 mm creepage between Primary &amp; Secondary)</b>					
P2033	9.3	1:1	1500	6.0 / 7.1 / 3.6	PC500
PA0173	17.2	1:1:1	1500	8.6 / 11.7 / 4.1	PC500
PA0185	17.2	1:1	1500	8.6 / 11.7 / 4.1	PC500
PA0184	27.2	1:1	1500	9.0 / 8.6 / 7.6	PC500

### THT Gate Drive Transformers: Reinforced Insulation

Part Number	Maximum Volt (µSec)	Turns Ratio	Isolation (Vdc)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>UL/C-UL Recognized, TÜV Approved</b>					
P0584	95	1:1:1	3000	20.6 / 12.2 / 19.1	P515
P0585	95	1:1:1:1	3000	20.6 / 12.2 / 19.1	P515

Part Number	Maximum Volt (µSec)	Turns Ratio	Isolation (Vdc)	MAX Dimensions L/W/H (mm)**	Data Sheet
<b>VDE Approved</b>					
PE-63385	200	1:1	3750	27.7 / 27.4 / 30.5	P507
PE-63387	200	1:1:1	3750	27.7 / 27.4 / 30.5	P507
PE-63386	320	1:1.5	3750	27.7 / 27.4 / 30.5	P507
PE-63388	320	1:1.5:1.5	3750	27.7 / 27.4 / 30.5	P507

\*Add "T" suffix to surface mount part number to indicate Tape & Reel packaging.  
 \*\*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

## POWER TRANSFORMERS

### High Frequency Planar Transformers

Part Number	Power Rating (W)	Turns Ratio	Isolation (Vdc)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>PA003x Series: Up to 30 W – 19.6mm x 18.0mm x 7.4mm</b>					
PA0030	30	6:2	1500	19.6 / 18.0 / 7.4	PC500
PA0031	30	12:2	1500	19.6 / 18.0 / 7.4	PC500
PA0032	30	6:3	1500	19.6 / 18.0 / 7.4	PC500
PA0033	30	12:3	1500	19.6 / 18.0 / 7.4	PC500
PA0034	30	6:6	1500	19.6 / 18.0 / 7.4	PC500
PA0035	30	12:8	1500	19.6 / 18.0 / 7.4	PC500
PA0036	30	6:8	1500	19.6 / 18.0 / 7.4	PC500
PA0037	30	12:8	1500	19.6 / 18.0 / 7.4	PC500

Part Number	Power Rating (W)	Turns Ratio	Isolation (Vdc)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>Spyglass Series: Up to 140 W – 23.4mm x 20.1mm x 8.6mm</b>					
PA0369	100	6:1	1500	23.4 / 20.1 / 8.6	PC500
PA0168	100	12:2	1500	23.4 / 20.1 / 8.6	PC500
PA0463	50	10:2 <sup>2</sup>	1500	23.4 / 20.1 / 8.6	PC500
PA0491	100	8:2	1500	23.4 / 20.1 / 8.6	PC500
PA0423	140	8:4 <sup>1</sup>	1500	23.4 / 20.1 / 8.6	PC500

1. With an additional 4T primary side aux. winding.
2. With an additional 9T primary side aux. winding.

Part Number	Power Rating (W)	Turns Ratio	Isolation (Vdc)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>Shotglass Series: Up to 75 W – 20.1mm x 18.5mm x 6.6mm</b>					
PA0457	67	12:2 <sup>1</sup>	1500	20.1 / 18.5 / 6.6	PC500
PA0458	75	12:3 <sup>1</sup>	1500	20.1 / 18.5 / 6.6	PC500

### Low Frequency Laminated Transformers

Part Number	VA Rating	Weight (lbs)	Isolation (Vrms)	MAX Dimensions L/W/H (in)	Data Sheet
<b>International PC Plug-in Power Transformer</b>					
14A-2.5-XXXX	2.5	0.25	4000	1.625 / 1.312 / 1.125	PC500
14A-5.0-XXXX	5.0	0.37	4000	1.625 / 1.312 / 1.375	PC500
14A-10-XXXX	10	0.53	4000	1.875 / 1.562 / 1.375	PC500
14A-20-XXXX	20	0.90	4000	2.250 / 1.875 / 1.625	PC500
14A-30-XXXX	30	1.15	4000	2.625 / 2.187 / 1.562	PC500
14A-56-XXXX	56	1.70	4000	3.000 / 2.500 / 1.812	PC500

Part Number	VA Rating	Weight (lbs)	Isolation (Vrms)	MAX Dimensions L/W/H (in)	Data Sheet
<b>International High Power Transformers</b>					
A41-25-XXXX	25	1.25	4000	2.812 / 1.875 / 2.312	PC500
A41-43-XXXX	43	1.60	4000	3.125 / 2.062 / 2.687	PC500
A41-80-XXXX	80	2.80	4000	2.500 / 2.375 / 3.000	PC500
A41-130-XXXX	130	4.10	4000	2.812 / 2.875 / 3.375	PC500
A41-175-XXXX	175	5.50	4000	3.125 / 2.875 / 3.750	PC500

Part Number	VA Rating	Weight (lbs)	Isolation (Vrms)	MAX Dimensions L/W/H (in)	Data Sheet
<b>Split Bobbin Horizontal Profile Plug-in Transformers</b>					
ST2-XXXX	1.1	0.17	2500	1.130 / 1.130 / 0.940	PC500
ST3-XXXX	2.4	0.25	2500	1.380 / 1.130 / 1.190	PC500
ST4-XXXX	6.0	0.44	2500	1.630 / 1.310 / 1.310	PC500
ST5-XXXX	12	0.70	2500	1.860 / 1.560 / 1.440	PC500
ST6-XXXX	20	0.80	2500	2.250 / 1.860 / 1.440	PC500
ST7-XXXX	36	1.10	2500	2.630 / 2.190 / 1.560	PC500

Part Number	VA Rating	Weight (lbs)	Isolation (Vrms)	MAX Dimensions L/W/H (in)	Data Sheet
<b>Low Profile Plug-in Transformers</b>					
LP Size 2	2.5	0.313	1500	1.875 / 1.562 / 0.650	PC500
LP Size 6	6.0	0.438	1500	1.875 / 1.562 / 0.850	PC500
LP Size 12	12	0.688	1500	2.500 / 2.000 / 1.065	PC500
LP Size 24	24	0.938	1500	2.812 / 2.250 / 1.250	PC500
LP Size 48	48	1.313	1500	3.125 / 2.500 / 1.375	PC500

## CURRENT SENSE MAGNETICS

### SMT Current Sense Transformers: 4 A to 35 A, Operational Insulation

Part Number*	Current (A)	Turns Ratio	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>PA0368 Series: 4 A - 500 Vrms – 8.4mm x 8.4mm x 3.3mm</b>					
PA0368.050	4	50:1	500	8.4 / 8.4 / 3.3	PC500
PA0368.070	4	70:1	500	8.4 / 8.4 / 3.3	PC500
PA0368.080	4	80:1	500	8.4 / 8.4 / 3.3	PC500
PA0368.100	4	100:1	500	8.4 / 8.4 / 3.3	PC500
PA0368.125	4	125:1	500	8.4 / 8.4 / 3.3	PC500

Part Number	Current (A)	Turns Ratio	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>P820x Series: 10 A - 500 Vrms – 8.4mm x 7.2mm x 5.1mm</b>					
P8202	10	20:1	500	8.4 / 7.2 / 5.1	PC500
P8203	10	30:1	500	8.4 / 7.2 / 5.1	PC500
P8204	10	40:1	500	8.4 / 7.2 / 5.1	PC500
P8205	10	50:1	500	8.4 / 7.2 / 5.1	PC500
P8206	10	60:1	500	8.4 / 7.2 / 5.1	PC500
P8207	10	70:1	500	8.4 / 7.2 / 5.1	PC500
P8208	10	100:1	500	8.4 / 7.2 / 5.1	PC500
P8209	10	125:1	500	8.4 / 7.2 / 5.1	PC500

Part Number	Current (A)	Turns Ratio	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>PE-68xxx Series: 15 A - 500 Vrms – 14.6mm x 12.6mm x 7.1mm</b>					
PE-68210	15.3	50:1:1	500	14.6 / 12.6 / 7.1	PC500
PE-68280	16.3	100:1:1	500	14.6 / 12.6 / 7.1	PC500
PE-68383	16.4	200:1:1	500	14.6 / 12.6 / 7.1	PC500

Part Number	Current (A)	Turns Ratio	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>PB002x Series: 35A - 500 Vrms – 19.9mm x 14.5mm x 10.0mm</b>					
PB0025	35	50:1:1	500	19.9 / 14.5 / 10.0	PC500
PB0026	35	100:1:1	500	19.9 / 14.5 / 10.0	PC500
PB0027	35	200:1:1	500	19.9 / 14.5 / 10.0	PC500

### THT Current Sense Transformers: 20 A to 38 A – Reinforced Insulation

Part Number*	Current (A)	Turns Ratio	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>P058x Series: 35 A - 3000 Vrms – 20.6mm x 14.7mm x 19.1mm</b>					
P0581	34	200:1:1	3000	20.6 / 14.7 / 19.1	P516
P0582	35	100:1:1	3000	20.6 / 14.7 / 19.1	P516
P0583	36	50:1:1	3000	20.6 / 14.7 / 19.1	P516

Part Number	Current (A)	Turns Ratio	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>PE-67xxx Series: 38 A - 3750 Vrms – 19.1mm x 14.4mm x 19.1mm</b>					
PE-67050	35	50:1	3750	19.1 / 14.4 / 19.1	P577
PE-67100	37	100:1	3750	19.1 / 14.4 / 19.1	P577
PE-67200	38	200:1	3750	19.1 / 14.4 / 19.1	P577
PE-67300	37	300:1	3750	19.1 / 14.4 / 19.1	P577

Part Number	Current (A)	Turns Ratio	Isolation (Vrms)	Max Dimensions L/W/H (mm)**	Data Sheet
<b>PE-xxxxx Series: 20 A - 3750 Vrms</b>					
PE-64487	20	100:1:1	3750	22.9 / 17.8 / 17.8	P578
PE-64488	20	200:1:1	3750	22.9 / 17.8 / 17.8	P578
PE-64517	20	50CT:1:1	3750	22.9 / 17.8 / 17.8	P578
PE-64518	20	100CT:1:1	3750	22.9 / 17.8 / 17.8	P578
PE-64519	20	200CT:1:1	3750	22.9 / 17.8 / 17.8	P578
PE-63586	20	50:1	3750	22.9 / 17.8 / 17.8	P578
PE-63587	20	100:1	3750	22.9 / 17.8 / 17.8	P578
PE-63588	20	200:1	3750	22.9 / 17.8 / 17.8	P578
PE-63618	20	100CT:1	3750	22.9 / 17.8 / 17.8	P578
PE-63619	20	200CT:1	3750	22.9 / 17.8 / 17.8	P578
PE-63691	20	300CT:1	3750	22.9 / 17.8 / 17.8	P578
PE-51686	20	50	3750	16.6 / 9.9 / 20.3	P578
PE-51687	20	100	3750	16.6 / 9.9 / 20.3	P578
PE-51688	20	200	3750	16.6 / 9.9 / 20.3	P578
PE-51717	20	50CT	3750	16.6 / 9.9 / 20.3	P578
PE-51718	20	100CT	3750	16.6 / 9.9 / 20.3	P578
PE-51719	20	200CT	3750	16.6 / 9.9 / 20.3	P578



# PRODUCT INDEX



Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page
14A-25-XXXX	PC500	40	B2105	B950	15	BX2303C	B811	15	E2007	E115	13
14A-50-XXXX	PC500	40	B2113	B902	16	BX2332	B821	15	E2009	E115	5, 13
14A-10-XXXX	PC500	40	B2114	B902	16	BX2347	B994	15	E2023	EC100	12
14A-20-XXXX	PC500	40	B2116	B902	16	BX2348	B994	15	E4005	EC100	12
14A-30-XXXX	PC500	40	B2117	B902	16	BX2349	B994	15	E5002	EC101	5
14A-56-XXXX	PC500	40	B2118	B902	16	BX2361	B988	15	E5002	E116	13
23Z104	G002	5, 14	B2125A	B968	16	BX2367	B997	15	E5008	E117	13
23Z104SM	G002	5, 14	B2126A	B968	16	BX2369JB/WA	B991	15	E5017	EC100	12
23Z105SM	G002	14	B2127A	B968	16	BX2372JB/WA	B991	15	EX2001	E112	13
23Z106	G002	14	B2132	B954	15	BX2375	B985	15	EX2024	EC100	12
23Z106SM	G002	14	B2133	B823	15	BX2380	B994	15	FL1012	FL1012	5, 12, 13
23Z107	G002	14	B2136	B955	15	BX2382	B988	15	FL1020	FL1020	12, 13
23Z109SM	G002	14	B2137	B955	15	BX4030	B984	17	FL1553-1	See Footnote 3	34
23Z356SM	EC100	12, 13	B2139	B958	15	BX4036	B808	17	FL1553-2	See Footnote 3	34
23Z435	EC100	13	B2155	B968	16	BX4037	B809	17	FL1553-3	See Footnote 3	34
23Z435SM	EC100	13	B2162	B957	15	BX4038	B809	17	FL1553-5	See Footnote 3	34
23Z467SM	EC100	12, 13	B2168	B955	15	BX4039	B819	17	FL1553-45	See Footnote 3	34
23Z87	G002	14	B2178	B979	15	BX4040	B819	17	FPQ1553-6	See Footnote 4	34
23Z875M	G002	14	B2188	B955	15	BX4053	B912	17	FPQ1553-7	See Footnote 4	34
42Z4000	G002	14	B2189	B979	15	BX4055	B981	17	FPQ1553-8	See Footnote 4	34
A1801	A104	28	B2201	B929	15	BX4056	B981	17	FPQ1553-10	See Footnote 4	34
A41-25-XXXX	PC500	40	B2205	B985	15	BX6034	B996	17	FPQ1553-45	See Footnote 4	34
A41-43-XXXX	PC500	40	B2208	B972	16	BX8115	B817	16	GL1553-1	See Footnote 3	34
A41-80-XXXX	PC500	40	B2209	B972	16	BX8118	B817	16	GL1553-2	See Footnote 3	34
A41-175-XXXX	PC500	40	B2210	B972	16	C2020	C200	28	GL1553-3	See Footnote 3	34
A41-130-XXXX	PC500	40	B2232	B820	15	C2022	C200	28	GL1553-5	See Footnote 3	34
A5807T	A102	28	B2243	B823	15	C2042	C210	28	GL1553-45	See Footnote 3	34
A5808T	A102	28	B2323	B818	15	C3027	C207	28	H0009	H304	4
A5809T	A102	28	B2351	B801	16	C4006	C223	28	H0019	H304	4
A5816T	A102	28	B2351A	B801	16	C5001	C209	28	H0022	H304	4
A5908T	A102	28	B2396.0xx	B801	16	C5002	C208	28	H0025	H304	4
A5910T	A102	28	B2396.1xx	B801	16	C5003	C209	28	H1012	H303	4, 14
A5912T	A102	28	B2414JB	B991	15	C5005	C209	28	H1019	H303	14
A5916T	A102	28	B2420	B994	15	C6001	C204	28	H1027	H322	14
A6801	A100	4, 28	B2429	B990	15	Copperhead™ Series Transceiver Line					
A6802	A100	4, 28	B2436	B990	15	Interface Modules See Footnote 1 33					
A7802	A103	23, 24	B4001	B912	17	CP-421SE	See Footnote 2	19	H1036L	H316	4, 14
B1001	B901	16	B4003	G002	14, 17	CP-421TJ	See Footnote 2	19	H1038	H315	4
B1002	B901	16	B4004	B975	17	CP-422TJ	See Footnote 2	19	H1044	H316	4, 14
B1004	B901	16	B4006	B975	17	CP-422TJ	See Footnote 2	19	H1049	H322	14
B1006	B901	16	B4008	B975	17	CP-423TJ	See Footnote 2	19	H1053	H316	4
B1007	B901	16	B4008	B925	17	CP-790TJ	See Footnote 2	19	H1060	H316	4
B1013	B924	16	B4010	B931	17	CP-791TJ	See Footnote 2	19	H1062	H316	4
B1017	B978	16	B4011	B931	17	CP-800	See Footnote 2	19	H1069	H321	4
B1018	B978	16	B4012	B931	17	CX2024	C217	28	H1071	H316	4
B1019	B921	16	B4013	B931	17	CX2032	C210	28	H1074	H321	4
B1020A	B978	16	B4014	B931	17	CX2038	C203	28	H1081	H314	7
B1028	B978	16	B4015	B931	17	CX2039	C203	28	H1089	H303	4
B1040A	B978	16	B4016	B931	17	CX2040	C203	28	H1092	H313	4
B1042	B921	16	B4017	B931	17	CX2043	C203	28	H1093	H314	4
B1053	B966	16	B4018	B931	17	CX2044	C203	28	H1100	H325	4
B1056	B965	16	B4020	B981	17	CX2047	C203	28	H1102	H325	4, 7-11
B1059	B978	16	B4021	B981	17	CX2050	C206	28	H1112	H326	4, 8
B1063	B993	16	B4023	B975	17	CX2052	C206	28	H1140	H328	4
B1074B	B803	16	B4025	B925	17	CX2054	C206	28	H1141	H328	4
B1075	B978	16	B4031	B987	17	CX2059	C206	28	H1164	H328	4, 7-11
B1077	B978	16	B4032	B987	17	CX2060	C206	28	H1174	H322	4
B1078	B973	16	B4033	B998	17	CX2062	C206	28	H1199	H325	4
B1083	B965	16	B4034	B998	17	CX2064	C206	28	H1200	H322	4
B1093	B993	16	B4064	B998	17	CX2065	C206	28	H1259	H600	4, 7-9, 11
B2002	B903	15	B5004	B907	28	CX2072	C227	28	H1260	H325	4, 7-11
B2005	G002	14, 17	B5005	B907	28	CX2078	C215	28	H1266	H600	4
B2006	B903	15	B6001	B915	17	CX2081	C215	28	H1267	H342	4
B2007	B903	15	B6003	B916	17	CX3039	C221	28	H1270	H600	4, 7-11
B2008	B903	15	B6003L	B960	17	CX4002	C201	28	H2005A	H327	5, 7-11
B2011	B903	15	B6005	B918	17	CX4004	C212	28	H2006A	H327	5, 8
B2012	B903	15	B6006L	B961	17	CX4005	C226	28	H2008	H327	5
B2013	G002	14, 17	B6014	B971	17	CX4011	C218	28	H2009	H327	5, 7-11
B2023	B902	16	B6017	B977	17	CX4012	C220	28	H2014	H327	5
B2024	B902	16	B6019	B964	17	CX5013	C209	28	H2017	H327	5, 8-11
B2025	B902	16	B6020	B964	17	CX6002	C205	28	H2019	H327	5, 7-11
B2026	B902	16	B6080	B805	17	CX6006	C213	28	H5004	H500	4
B2031	B906	15	B8004	B974	16	CX6007	C211	28	H5007	H500	4, 6
B2032	B906	15	B8010	B976	16	CX6008	C216	28	H5008	H502	4
B2038	B930	15	B8040	B814	16	DFL1553-1	See Footnote 3	34	H5009	H502	4
B2039A	B905	16	B8042	B815	16	DFL1553-2	See Footnote 3	34	H5012	H503	4, 6
B2061	B963	16	B8046	B810	16	DFL1553-3	See Footnote 3	34	H5014	H503	4
B2062	B963	16	B8047	B813	16	DFL1553-5	See Footnote 3	34	H5020	H503	4, 6
B2063	B914	16	B8049	B813	16	DGL1553-45	See Footnote 3	34	H5062	H600	4, 6
B2064	B920	15	B8101	B804	16	DGL1553-1	See Footnote 3	34	HX1148	H303	4
B2068	B920	15	B8102	B804	16	DGL1553-2	See Footnote 3	34	HX1178	H303	4
B2086	B902	16	B8106	B804	16	DGL1553-3	See Footnote 3	34	HX1188	H325	4, 7-11
B2088	B929	15	B8107	B804	16	DGL1553-5	See Footnote 3	34	HX1198	H325	4
B2090	B963	15	BT2361	B806	15	DGL1553-45	See Footnote 3	34	HX1203	H316	4
B2091	B963	15	BX2258	B999	15	DTL1553-1	See Footnote 3	34	HX1234	H328	4, 7-11
B2098	B963	15	BX2259	B999	15	DTL1553-2	See Footnote 3	34	HX1236	H316	4
B2099	B963	15	BX2260	B990	15	DTL1553-3	See Footnote 3	34	HX1240	H328	4
B2100	B963	16	BX2274J	B812	15	DTL1553-5	See Footnote 3	34	J0006D21	J403	2, 7-11
B2101	B963	16	BX2285C	B822	15	DTL1553-45	See Footnote 3	34	J0006D21B	J403	2
B2102	B963	16	BX2286C	B811	15	E2001	E115	13	J0010D11	G002	14
B2104	B950	15	BX2287C	B811	15	E2003	E115	5, 12	J0011D01	J403	2
			BX2302C	B811	15	E2004	E115	13	J0011D21	J403	2



# PRODUCT INDEX



**Pulse**  
A TECHNITROL COMPANY

Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page
J0011D21B	J403	2	P0182	PC500	38	P0648.192	PC500	35	P1167.184	PC500	36
J0011D21E	J403	2	P0183	PC500	38	P0648.214	PC500	36	P1167.223	PC500	36
J0018D21	J403	2	P0250.102	PC500	35	P0648.223	PC500	35	P1167.224	PC500	36
J0018D21E	J403	2	P0250.103	PC500	35	P0648.282	PC500	35	P1167.272	PC500	36
J0024D21	J403	2	P0250.104	PC500	35	P0648.323	PC500	35	P1167.273	PC500	36
J0024D21B	J403	2	P0250.105	PC500	35	P0648.324	PC500	36	P1167.274	PC500	36
J0026D01	J403	2	P0250.153	PC500	35	P0648.342	PC500	35	P1167.333	PC500	36
J0026D01B	J403	2	P0250.154	PC500	35	P0648.454	PC500	36	P1167.334	PC500	36
J0026D01E	J403	2	P0250.222	PC500	35	P0648.462	PC500	35	P1167.362	PC500	36
J0026D01F	J403	2	P0250.223	PC500	35	P0648.463	PC500	36	P1167.393	PC500	36
J0026D21	J403	2	P0250.224	PC500	35	P0648.644	PC500	36	P1167.394	PC500	36
J0026D21B	J403	2	P0250.332	PC500	35	P0648.653	PC500	36	P1167.452	PC500	36
J0026D21E	J403	2	P0250.333	PC500	35	P0648.682	PC500	35	P1167.473	PC500	36
J0026D21F	J403	2	P0250.334	PC500	35	P0751.102	PC500	35	P1167.474	PC500	36
J0026D21G	J403	2	P0250.473	PC500	35	P0751.103	PC500	35	P1167.542	PC500	36
J0033D21	J403	2	P0250.474	PC500	35	P0751.152	PC500	35	P1167.563	PC500	36
J0035D21B	J403	2	P0250.562	PC500	35	P0751.153	PC500	35	P1167.564	PC500	36
J0048D21M	J403	2	P0250.683	PC500	35	P0751.222	PC500	35	P1167.632	PC500	36
J0073D01B	J403	2	P0250.684	PC500	35	P0751.223	PC500	35	P1167.683	PC500	36
J1006D21	J402	10	P0351	PC500	39	P0751.332	PC500	35	P1167.684	PC500	36
J1006F01P	J402	2	P0353	PC500	39	P0751.333	PC500	35	P1167.823	PC500	36
J1011F01P	J402	2	P0354	PC500	39	P0751.472	PC500	35	P1167.824	PC500	36
J1012F01C	J402	2	P0395	PC500	38	P0751.473	PC500	35	P1169.102	PC500	37
J1012F21C	J402	2	P0396	PC500	38	P0751.682	PC500	35	P1169.103	PC500	37
J1012F21K	J402	2	P0397	PC500	38	P0751.683	PC500	35	P1169.104	PC500	37
J1012F21L	J402	2	P0398	PC500	38	P0752.104	PC500	35	P1169.105	PC500	37
J1012F21R	J402	2	P0399	PC500	38	P0752.105	PC500	35	P1169.123	PC500	37
J1026F01	J402	2	P0400	PC500	38	P0752.154	PC500	35	P1169.124	PC500	37
J1026F01P	J402	2	P0401	PC500	38	P0752.224	PC500	35	P1169.153	PC500	37
J1026F21C	J402	2	P0402	PC500	38	P0752.334	PC500	35	P1169.154	PC500	37
J1501F21	T667	22	P0403	PC500	38	P0752.474	PC500	35	P1169.162	PC500	37
J20-0013	J401	3	P0420	PC500	39	P0752.684	PC500	35	P1169.183	PC500	37
J20-0014	J401	3	P0421	PC500	39	P0762.103	PC500	35	P1169.184	PC500	37
J20-0015	J401	3	P0422	PC500	39	P0762.104	PC500	35	P1169.223	PC500	37
J20-0016	J401	3	P0429	PC500	39	P0762.105	PC500	35	P1169.224	PC500	37
J2039H3A	J401	3	P0430	PC500	37	P0762.153	PC500	35	P1169.242	PC500	37
J2039H3B	J401	3	P0431	PC500	37	P0762.154	PC500	35	P1169.273	PC500	37
J2039H3C	J401	3	P0432	PC500	37	P0762.223	PC500	35	P1169.274	PC500	37
J2042H3A	J401	3	P0433	PC500	37	P0762.224	PC500	35	P1169.332	PC500	37
J2042H3B	J401	3	P0434	PC500	37	P0762.333	PC500	35	P1169.333	PC500	37
J2042H3C	J401	3	P0435	PC500	37	P0762.334	PC500	35	P1169.334	PC500	37
J2045H3A	J401	3, 7-11	P0436	PC500	37	P0762.473	PC500	35	P1169.393	PC500	37
J2045H3B	J401	3, 7-11	P0437	PC500	37	P0762.474	PC500	35	P1169.394	PC500	37
J2045H3C	J401	3, 7-11	P0438	PC500	37	P0762.683	PC500	35	P1169.452	PC500	37
J3006G21D	J409	2, 7-11	P0439	PC500	37	P0762.684	PC500	35	P1169.473	PC500	37
J3011G21D	J409	2	P0440	PC500	37	P0770.102	PC500	35	P1169.474	PC500	37
J3018G21K	J409	2	P0441	PC500	37	P0770.103	PC500	35	P1169.501	PC500	37
J3026G21D	J409	2	P0442	PC500	37	P0770.104	PC500	35	P1169.562	PC500	37
J6026M51U	J408	7-11	P0443	PC500	37	P0770.152	PC500	35	P1169.563	PC500	37
J8064D628A	J404	3, 7-11	P0444	PC500	37	P0770.153	PC500	35	P1169.564	PC500	37
J8064D648A	J404	3, 7-11	P0445	PC500	37	P0770.154	PC500	35	P1169.682	PC500	37
J8064D649P	J404	3	P0446	PC500	37	P0770.222	PC500	35	P1169.683	PC500	37
J8064D668A	J404	3, 7-9	P0450	PC500	37	P0770.223	PC500	35	P1169.684	PC500	37
J8064D688A	J404	8-11	P0451	PC500	37	P0770.224	PC500	35	P1169.823	PC500	37
J8064E62	J404	3, 7-11	P0452	PC500	37	P0770.332	PC500	35	P1169.824	PC500	37
J8064E64	J404	3, 8-11	P0453	PC500	37	P0770.333	PC500	35	P1171.103	PC500	37
J8064E66	J404	3, 9	P0454	PC500	37	P0770.472	PC500	35	P1171.104	PC500	37
J8064E68	J404	3, 7, 9-11	P0455	PC500	37	P0770.473	PC500	35	P1171.105	PC500	37
JC Series	See Chart Footnote	3, 6	P0456	PC500	37	P0770.682	PC500	35	P1171.123	PC500	37
JG Series	See Chart Footnote	3, 6	P0457	PC500	37	P0770.683	PC500	35	P1171.124	PC500	37
JK Series	See Chart Footnote	2, 6	P0458	PC500	38	P0926	PC500	39	P1171.142	PC500	37
JP06821U	J402	2	P0459	PC500	38	P1166.104	PC500	36	P1171.153	PC500	37
JP011821U	J402	2	P0460	PC500	38	P1166.105	PC500	36	P1171.154	PC500	37
JP026821U	J402	2	P0461	PC500	38	P1166.124	PC500	36	P1171.183	PC500	37
JU054P01R	J408	7-11	P0462	PC500	38	P1166.154	PC500	36	P1171.184	PC500	37
JV006121	J409	2, 7-11	P0463	PC500	38	P1166.183	PC500	36	P1171.222	PC500	37
JV011121	J409	2	P0464	PC500	38	P1166.184	PC500	36	P1171.223	PC500	37
JV026121	J409	2	P0465	PC500	38	P1166.223	PC500	36	P1171.224	PC500	37
JW0A2P019D	J408	6	P0466	PC500	38	P1166.224	PC500	36	P1171.273	PC500	37
LP Size 2	PC500	40	P0467	PC500	38	P1166.273	PC500	36	P1171.274	PC500	37
LP Size 6	PC500	40	P0468	PC500	38	P1166.274	PC500	36	P1171.302	PC500	37
LP Size 12	PC500	40	P0469	PC500	39	P1166.333	PC500	36	P1171.333	PC500	37
LP Size 24	PC500	40	P0473	PC500	39	P1166.334	PC500	36	P1171.334	PC500	37
LP Size 48	PC500	40	P0502	PC500	39	P1166.393	PC500	36	P1171.392	PC500	37
P0144	PC500	38	P0527	PC500	39	P1166.394	PC500	36	P1171.393	PC500	37
P0145	PC500	38	P0544	PC500	39	P1166.473	PC500	36	P1171.394	PC500	37
P0146	PC500	38	P0581	P516	40	P1166.474	PC500	36	P1171.473	PC500	37
P0147	PC500	38	P0582	P516	40	P1166.563	PC500	36	P1171.474	PC500	37
P0148	PC500	38	P0583	P516	40	P1166.564	PC500	36	P1171.502	PC500	37
P0149	PC500	38	P0584	P515	39	P1166.681	PC500	36	P1171.563	PC500	37
P0150	PC500	38	P0585	P515	39	P1166.683	PC500	36	P1171.564	PC500	37
P0151	PC500	38	P0595	PC500	38	P1166.684	PC500	36	P1171.642	PC500	37
P0152	PC500	38	P0596	PC500	38	P1166.823	PC500	36	P1171.683	PC500	37
P0153	PC500	38	P0597	PC500	38	P1166.824	PC500	36	P1171.684	PC500	37
P0174	PC500	38	P0598	PC500	38	P1167.103	PC500	36	P1171.823	PC500	37
P0175	PC500	38	P0599	PC500	38	P1167.104	PC500	36	P1171.824	PC500	37
P0176	PC500	38	P0648.102	PC500	35	P1167.105	PC500	36	P1171.901	PC500	37
P0177	PC500	38	P0648.103	PC500	35	P1167.123	PC500	36	P1173.103	PC500	37
P0178	PC500	38	P0648.104	PC500	36	P1167.124	PC500	36	P1173.123	PC500	37
P0179	PC500	38	P0648.105	PC500	36	P1167.153	PC500	36	P1173.132	PC500	37
P0180	PC500	38	P0648.153	PC500	35	P1167.154	PC500	36	P1173.153	PC500	37
P0181	PC500	38	P0648.154	PC500	36	P1167.183	PC500	36	P1173.183	PC500	37

# PRODUCT INDEX



Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page
P1173.202	PC500	37	PA0491	PC500	40	PE-0603CD220KTT	WC701	30	PE-1008CD621KTT	WC701	31
P1173.223	PC500	37	PA1292.112	PC500	39	PE-0603CD221KTT	WC701	30	PE-1008CD680KTT	WC701	30
P1173.272	PC500	37	PA1292.132	PC500	39	PE-0603CD240KTT	WC701	30	PE-1008CD681KTT	WC701	31
P1173.273	PC500	37	PA1292.152	PC500	39	PE-0603CD270KTT	WC701	30	PE-1008CD751KTT	WC701	31
P1173.333	PC500	37	PA1292.450	PC500	39	PE-0603CD271KTT	WC701	30	PE-1008CD820KTT	WC701	30
P1173.372	PC500	37	PA1292.650	PC500	39	PE-0603CD330KTT	WC701	30	PE-1008CD821KTT	WC701	31
P1173.393	PC500	37	PA1292.910	PC500	39	PE-0603CD331KTT	WC701	30	PE-1008CD911KTT	WC701	31
P1173.472	PC500	37	PA1294.112	PC500	39	PE-0603CD390KTT	WC701	30	PE-1008CM Series	WC701	31
P1173.473	PC500	37	PA1294.132	PC500	39	PE-0603CD391KTT	WC701	30	PE-1008CQ100KTT	WC701	32
P1173.602	PC500	37	PA1294.152	PC500	39	PE-0603CD3N6KTT	WC701	30	PE-1008CQ101KTT	WC701	32
P1173.683	PC500	37	PA1294.450	PC500	39	PE-0603CD430KTT	WC701	30	PE-1008CQ120KTT	WC701	32
P1173.762	PC500	37	PA1294.650	PC500	39	PE-0603CD470KTT	WC701	30	PE-1008CQ180KTT	WC701	32
P1174.102	PC500	36	PA1294.910	PC500	39	PE-0603CD4N3KTT	WC701	30	PE-1008CQ220KTT	WC701	32
P1174.103	PC500	36	PA1393.102	PC500	39	PE-0603CD560KTT	WC701	30	PE-1008CQ221KTT	WC701	32
P1174.104	PC500	36	PA1393.152	PC500	39	PE-0603CD680KTT	WC701	30	PE-1008CQ330KTT	WC701	32
P1174.105	PC500	36	PA1393.202	PC500	39	PE-0603CD720KTT	WC701	30	PE-1008CQ390KTT	WC701	32
P1174.152	PC500	36	PA1393.252	PC500	39	PE-0603CD820KTT	WC701	30	PE-1008CQ3N0KTT	WC701	32
P1174.153	PC500	36	PA1393.302	PC500	39	PE-0805CD030KTT	WC701	30	PE-1008CQ470KTT	WC701	32
P1174.154	PC500	36	PA1393.352	PC500	39	PE-0805CD050KTT	WC701	30	PE-1008CQ4N1KTT	WC701	32
P1174.222	PC500	36	PA1494.162	PC500	39	PE-0805CD060KTT	WC701	30	PE-1008CQ560KTT	WC701	32
P1174.223	PC500	36	PA1494.242	PC500	39	PE-0805CD080KTT	WC701	30	PE-1008CQ680KTT	WC701	32
P1174.224	PC500	36	PA1494.362	PC500	39	PE-0805CD100KTT	WC701	30	PE-1008CQ7N8KTT	WC701	32
P1174.332	PC500	36	PA1494.442	PC500	39	PE-0805CD101KTT	WC701	30	PE-1008CQ820KTT	WC701	32
P1174.333	PC500	36	PA1494.532	PC500	39	PE-0805CD102KTT	WC701	30	PE-1008FD103KTT	WC701	31
P1174.334	PC500	36	PA1494.622	PC500	39	PE-0805CD120KTT	WC701	30	PE-1008FD122KTT	WC701	31
P1174.472	PC500	36	PB0025	PC500	40	PE-0805CD121KTT	WC701	30	PE-1008FD151KTT	WC701	31
P1174.473	PC500	36	PB0026	PC500	40	PE-0805CD122KTT	WC701	30	PE-1008FD152KTT	WC701	31
P1174.474	PC500	36	PB0027	PC500	40	PE-0805CD150KTT	WC701	30	PE-1008FD181KTT	WC701	31
P1174.505	PC500	36	PB2020.102	PC500	36	PE-0805CD151KTT	WC701	30	PE-1008FD182KTT	WC701	31
P1174.604	PC500	36	PB2020.103	PC500	36	PE-0805CD152KTT	WC701	30	PE-1008FD222KTT	WC701	31
P1174.682	PC500	36	PB2020.153	PC500	36	PE-0805CD180KTT	WC701	30	PE-1008FD272KTT	WC701	31
P1174.683	PC500	36	PB2020.222	PC500	36	PE-0805CD181KTT	WC701	30	PE-1008FD331KTT	WC701	31
P1174.684	PC500	36	PB2020.223	PC500	36	PE-0805CD220KTT	WC701	30	PE-1008FD332KTT	WC701	31
P1252.103	PC500	35	PB2020.332	PC500	36	PE-0805CD221KTT	WC701	30	PE-1008FD392KTT	WC701	31
P1252.152	PC500	35	PB2020.333	PC500	36	PE-0805CD270KTT	WC701	30	PE-1008FD472KTT	WC701	31
P1252.222	PC500	35	PB2020.472	PC500	36	PE-0805CD271KTT	WC701	30	PE-1008FD562KTT	WC701	31
P1252.332	PC500	35	PB2020.681	PC500	36	PE-0805CD330KTT	WC701	30	PE-1008FD682KTT	WC701	31
P1252.392	PC500	35	PB2020.682	PC500	36	PE-0805CD331KTT	WC701	30	PE-1008FD822KTT	WC701	31
P1252.472	PC500	35	PD0120.102	PC500	39	PE-0805CD390KTT	WC701	30	PE-1206CD030KTT	WC701	31
P1252.602	PC500	35	PD0120.113	PC500	39	PE-0805CD391KTT	WC701	30	PE-1206CD060KTT	WC701	31
P1252.781	PC500	35	PD0120.152	PC500	39	PE-0805CD470KTT	WC701	30	PE-1206CD100KTT	WC701	31
P1252.782	PC500	35	PD0120.183	PC500	39	PE-0805CD471 KTT	WC701	30	PE-1206CD101KTT	WC701	31
P1681	PC500	39	PD0120.222	PC500	39	PE-0805CD560KTT	WC701	30	PE-1206CD102KTT	WC701	31
P2004	PC500	39	PD0120.223	PC500	39	PE-0805CD561KTT	WC701	30	PE-1206CD120KTT	WC701	31
P2005	PC500	39	PD0120.332	PC500	39	PE-0805CD680KTT	WC701	30	PE-1206CD121KTT	WC701	31
P2033	PC500	39	PD0120.373	PC500	39	PE-0805CD681KTT	WC701	30	PE-1206CD122KTT	WC701	31
P8202	PC500	40	PD0120.503	PC500	39	PE-0805CD820KTT	WC701	30	PE-1206CD150KTT	WC701	31
P8203	PC500	40	PD0120.532	PC500	39	PE-0805CD821KTT	WC701	30	PE-1206CD151KTT	WC701	31
P8204	PC500	40	PD0120.702	PC500	39	PE-0805CD910KTT	WC701	30	PE-1206CD180KTT	WC701	31
P8205	PC500	40	PE-0402CD100KTT	WC701	29	PE-0805CM Series	WC701	31	PE-1206CD181KTT	WC701	31
P8206	PC500	40	PE-0402CD110KTT	WC701	29	PE-0805FT102KTT	WC701	31	PE-1206CD220KTT	WC701	31
P8207	PC500	40	PE-0402CD120KTT	WC701	29	PE-0805FT103KTT	WC701	31	PE-1206CD221KTT	WC701	31
P8208	PC500	40	PE-0402CD121KTT	WC701	29	PE-0805FT152KTT	WC701	31	PE-1206CD270KTT	WC701	31
P8209	PC500	40	PE-0402CD150KTT	WC701	29	PE-0805FT153KTT	WC701	31	PE-1206CD271KTT	WC701	31
PA0030	PC500	40	PE-0402CD190KTT	WC701	29	PE-0805FT222KTT	WC701	31	PE-1206CD330KTT	WC701	31
PA0031	PC500	40	PE-0402CD1N0KTT	WC701	29	PE-0805FT223KTT	WC701	31	PE-1206CD331KTT	WC701	31
PA0032	PC500	40	PE-0402CD1N2KTT	WC701	29	PE-0805FT332KTT	WC701	31	PE-1206CD390KTT	WC701	31
PA0033	PC500	40	PE-0402CD1N8KTT	WC701	29	PE-0805FT333KTT	WC701	31	PE-1206CD391KTT	WC701	31
PA0034	PC500	40	PE-0402CD230KTT	WC701	29	PE-0805FT472KTT	WC701	31	PE-1206CD470KTT	WC701	31
PA0035	PC500	40	PE-0402CD270KTT	WC701	29	PE-0805FT682KTT	WC701	31	PE-1206CD471KTT	WC701	31
PA0036	PC500	40	PE-0402CD2N0KTT	WC701	29	PE-1008CD040KTT	WC701	30	PE-1206CD560KTT	WC701	31
PA0037	PC500	40	PE-0402CD2N2KTT	WC701	29	PE-1008CD080KTT	WC701	30	PE-1206CD561KTT	WC701	31
PA0040.102	PC500	37	PE-0402CD330KTT	WC701	29	PE-1008CD100KTT	WC701	30	PE-1206CD680KTT	WC701	31
PA0040.103	PC500	37	PE-0402CD360KTT	WC701	29	PE-1008CD101KTT	WC701	30	PE-1206CD681KTT	WC701	31
PA0040.153	PC500	37	PE-0402CD3N3KTT	WC701	29	PE-1008CD102KTT	WC701	31	PE-1206CD820KTT	WC701	31
PA0040.222	PC500	37	PE-0402CD3N6KTT	WC701	29	PE-1008CD120KTT	WC701	30	PE-1206CD821KTT	WC701	31
PA0040.223	PC500	37	PE-0402CD3N9KTT	WC701	29	PE-1008CD121KTT	WC701	30	PE-1210FT100KTT	WC701	31
PA0040.333	PC500	37	PE-0402CD400KTT	WC701	29	PE-1008CD122KTT	WC701	31	PE-1210FT101KTT	WC701	31
PA0040.472	PC500	37	PE-0402CD470KTT	WC701	29	PE-1008CD150KTT	WC701	30	PE-1210FT102KTT	WC701	31
PA0040.473	PC500	37	PE-0402CD4N7KTT	WC701	29	PE-1008CD151KTT	WC701	30	PE-1210FT103KTT	WC701	31
PA0135.102	PC500	39	PE-0402CD5N1KTT	WC701	29	PE-1008CD152KTT	WC701	31	PE-1210FT120KTT	WC701	31
PA0135.331	PC500	39	PE-0402CD5N6KTT	WC701	29	PE-1008CD180KTT	WC701	30	PE-1210FT121KTT	WC701	31
PA0135.471	PC500	39	PE-0402CD680KTT	WC701	29	PE-1008CD181KTT	WC701	31	PE-1210FT122KTT	WC701	31
PA0135.681	PC500	39	PE-0402CD6N2KTT	WC701	29	PE-1008CD182KTT	WC701	31	PE-1210FT123KTT	WC701	32
PA0168	PC500	40	PE-0402CD7N5KTT	WC701	29	PE-1008CD220KTT	WC701	30	PE-1210FT150KTT	WC701	31
PA0173	PC500	39	PE-0402CD8N2KTT	WC701	29	PE-1008CD221KTT	WC701	31	PE-1210FT151KTT	WC701	31
PA0184	PC500	39	PE-0402CD9N0KTT	WC701	29	PE-1008CD222KTT	WC701	31	PE-1210FT152KTT	WC701	31
PA0185	PC500	39	PE-0603CD010KTT	WC701	30	PE-1008CD270KTT	WC701	30	PE-1210FT180KTT	WC701	31
PA0229	PC500	39	PE-0603CD030KTT	WC701	30	PE-1008CD271KTT	WC701	31	PE-1210FT181KTT	WC701	31
PA0264	PC500	39	PE-0603CD040KTT	WC701	30	PE-1008CD272KTT	WC701	31	PE-1210FT182KTT	WC701	31
PA0274	PC500	39	PE-0603CD060KTT	WC701	30	PE-1008CD330KTT	WC701	30	PE-1210FT220KTT	WC701	31
PA0277	PC500	39	PE-0603CD080KTT	WC701	30	PE-1008CD331KTT	WC701	31	PE-1210FT221KTT	WC701	31
PA0368.050	PC500	40	PE-0603CD100KTT	WC701	30	PE-1008CD332KTT	WC701	31	PE-1210FT222KTT	WC701	31
PA0368.070	PC500	40	PE-0603CD101KTT	WC701	30	PE-1008CD390KTT	WC701	30	PE-1210FT223KTT	WC701	32
PA0368.080	PC500	40	PE-0603CD111KTT	WC701	30	PE-1008CD391KTT	WC701	31	PE-1210FT270KTT	WC701	31
PA0368.100	PC500	40	PE-0603CD120KTT	WC701	30	PE-1008CD392KTT	WC701	31	PE-1210FT271KTT	WC701	31
PA0368.125	PC500	40	PE-0603CD121KTT	WC701	30	PE-1008CD470KTT	WC701	30	PE-1210FT272KTT	WC701	32
PA0369	PC500	40	PE-0603CD150KTT	WC701	30	PE-1008CD471KTT	WC701	31	PE-1210FT330KTT	WC701	31
PA0423	PC500	40	PE-0603CD151KTT	WC701	30	PE-1008CD472KTT	WC701	31	PE-1210FT331KTT	WC701	31
PA0457	PC500	40	PE-0603CD160KTT	WC701	30	PE-1008CD560KTT	WC701	30	PE-1210FT332KTT	WC701	32
PA0458	PC500	40	PE-0603CD180KTT	WC701	30	PE-1008CD561KTT	WC701	31	PE-1210FT390KTT	WC701	31
PA0463	PC500	40	PE-0603CD181KTT	WC701	30	PE-1008CD562KTT	WC701	31	PE-1210FT391KTT	WC701	31

# PRODUCT INDEX



Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page
PE-1210FT392KTT	WC701	32	PE-64993	T604	23-25	PE-68017S	E104	5, 12, 13	PG0040.224	PC500	36
PE-1210FT470KTT	WC701	31	PE-64994	T604	23	PE-68026	E115	5, 12, 13	PG0040.332	PC500	36
PE-1210FT471KTT	WC701	31	PE-64995	T604	23-25	PE-68030	E103	12	PG0040.333	PC500	36
PE-1210FT472KTT	WC701	32	PE-64996	T604	23	PE-68032	E103	12, 13	PG0040.472	PC500	36
PE-1210FT560KTT	WC701	31	PE-64998	T604	23, 24	PE-68048	EC100	12, 13	PG0040.473	PC500	36
PE-1210FT561KTT	WC701	31	PE-64999	T604	23, 24	PE-68049	EC101	5	PG0040.682	PC500	36
PE-1210FT562KTT	WC701	31	PE-65340	T608	20, 27	PE-68049L	EC101	12, 13	PG0040.683	PC500	36
PE-1210FT680KTT	WC701	32	PE-65351	T608	20, 26	PE-68050L	EC101	12	PG0041.105	PC500	36
PE-1210FT681KTT	WC701	31	PE-65363	T608	20	PE-68052	EC100	13	PG0041.205	PC500	36
PE-1210FT682KTT	WC701	32	PE-65379	T608	20, 26	PE-68056	E115	12, 13	PG0041.305	PC500	36
PE-1210FT820KTT	WC701	31	PE-65388	T608	20, 26	PE-68062L	EC101	5, 12, 13	PG0041.334	PC500	36
PE-1210FT821KTT	WC701	31	PE-65389	T608	20, 26	PE-68065L	EC101	12, 13	PG0041.474	PC500	36
PE-1210FT822KTT	WC701	32	PE-65415	T608	20, 26	PE-68068	E100	12	PG0041.505	PC500	36
PE-51686	P578	40	PE-65492	T604	23	PE-68210	PC500	40	PG0041.604	PC500	36
PE-51687	P578	40	PE-65493	T604	23-25	PE-68280	PC500	40	PG0041.684	PC500	36
PE-51688	P578	40	PE-65495	T604	23-25	PE-68383	PC500	40	PG0041.824	PC500	36
PE-51717	P578	40	PE-65498	T604	23-25	PE-68386	PC500	39	PG0063.102	PC500	35
PE-51718	P578	40	PE-65499	T604	23, 24	PE-68515L	H303	14	PG0063.103	PC500	35
PE-51719	P578	40	PE-65507	A101	28	PE-68517L	H303	14	PG0063.104	PC500	35
PE-53361	PC500	38	PE-65508	A101	28	PE-68600	T608	20, 27	PG0063.105	PC500	35
PE-53362	PC500	38	PE-65541	G002	14	PE-68602	G002	14	PG0063.152	PC500	35
PE-53363	PC500	38	PE-65542	G002	14	PE-68613	G002	14	PG0063.153	PC500	35
PE-53600	PC500	38	PE-65554	G002	14	PE-68614	B901	16	PG0063.154	PC500	35
PE-53601	PC500	38	PE-65558	T608	20, 26	PE-68616	T609	24	PG0063.222	PC500	35
PE-53602	PC500	38	PE-65565	T608	20, 27	PE-68617	T609	24	PG0063.223	PC500	35
PE-53604	PC500	38	PE-65566	T608	20, 27	PE-68618	T608	20	PG0063.224	PC500	35
PE-53606	PC500	38	PE-65567	T608	20, 27	PE-68621	B901	16	PG0063.332	PC500	35
PE-53608	PC500	38	PE-65568	T608	20, 27	PE-68622	B901	16	PG0063.333	PC500	35
PE-53611	PC500	38	PE-65575	T603	22, 24	PE-68624	G002	14	PG0063.334	PC500	35
PE-53613	PC500	38	PE-65578	T603	22, 24	PE-68627	G002	14	PG0063.472	PC500	35
PE-53614	PC500	38	PE-65579	T603	22, 24	PE-68628	T603	22, 24	PG0063.473	PC500	35
PE-53630	PC500	38	PE-65581	T603	22, 24	PE-68629	T606	22, 25	PG0063.474	PC500	35
PE-53631	PC500	38	PE-65583	T603	22, 24	PE-68630	T606	22, 25	PG0063.682	PC500	35
PE-53632	PC500	38	PE-65584	T603	22, 24	PE-68631	T603	22, 24	PG0063.683	PC500	35
PE-53633	PC500	38	PE-65586	T608	20, 26	PE-68644	T608	20	PG0063.684	PC500	35
PE-53634	PC500	38	PE-65612	T601	23, 24	PE-68645	T608	20	PG0067.102	PC500	39
PE-53650	PC500	38	PE-65661	T606	22	PE-68646	T608	20, 27	PG0067.222	PC500	39
PE-53651	PC500	38	PE-65662	T606	22	PE-68650	B901	16	PG0067.301	PC500	39
PE-53652	PC500	38	PE-65663	T606	22	PE-68664	T608	20, 27	PG0067.332	PC500	39
PE-53653	PC500	38	PE-65664	T606	22	PE-68668	T603	22, 24	PG0067.472	PC500	39
PE-53661	PC500	38	PE-65728	EC100	5	PE-68669	T603	22, 24	PG0067.552	PC500	39
PE-53662	PC500	38	PE-65738	G002	14	PE-68678	T608	20, 26	PG0067.601	PC500	39
PE-53663	PC500	38	PE-65745	EC100	12, 13	PE-68681	T603	22	PG0077.142	PC500	39
PE-53680	PC500	38	PE-65755	PC500	20	PE-68786	T608	20, 26	PG0077.181	PC500	39
PE-53681	PC500	38	PE-65770	T608	20, 27	PE-68788	T608	20, 27	PG0077.202	PC500	39
PE-53682	PC500	38	PE-65771	T608	20, 27	PE-68810	EC100	12	PG0077.282	PC500	39
PE-53683	PC500	38	PE-65774	T608	20, 27	PE-68820	EC100	12	PG0077.401	PC500	39
PE-53690	PC500	38	PE-65778	T608	20, 27	PE-68822	T608	21, 26	PG0077.801	PC500	39
PE-53691	PC500	38	PE-65779	T606	22	PE-68825	T608	21, 26	PT4084	PT4084	22, 24
PE-53692	PC500	38	PE-65792	T604	23	PE-68826	T608	21, 26	PT5031	PT5031	22, 24
PE-53700	PC500	38	PE-65793	T604	23-25	PE-68827	T608	21	PT5062	PT5062	22, 24
PE-53717	PC500	38	PE-65795	T604	23-25	PE-68828	T608	21, 26	PT5065	PT5065	22, 24
PE-53718	PC500	38	PE-65798	T604	23-25	PE-68836	T608	21	Q1553-1	See Footnote 4	34
PE-53719	PC500	38	PE-65799	T604	23, 24	PE-68841	T608	21, 26	Q1553-2	See Footnote 4	34
PE-53910	PC500	39	PE-65812	T601	23, 24	PE-68861	T608	21, 26	Q1553-20	See Footnote 4	34
PE-53911	PC500	39	PE-65830	T608	20	PE-68862	T608	21, 26	Q1553-21	See Footnote 4	34
PE-53912	PC500	39	PE-65831	T608	20	PE-68863	T608	21	Q1553-22	See Footnote 4	34
PE-53913	PC500	39	PE-65832	T608	20, 27	PE-68864	T608	21	Q1553-23	See Footnote 4	34
PE-53914	PC500	39	PE-65833	T608	20	PE-68865	T608	21, 26	Q1553-24	See Footnote 4	34
PE-63385	P507	39	PE-65834	T608	20, 27	PE-68866	T608	21, 26	Q1553-25	See Footnote 4	34
PE-63386	P507	39	PE-65835	T608	20, 27	PE-68869	T608	21	Q1553-3	See Footnote 4	34
PE-63387	P507	39	PE-65836	T608	20, 27	PE-68874	T608	21, 26	Q1553-45	See Footnote 4	34
PE-63388	P507	39	PE-65837	T608	20, 27	PE-68877	T608	21, 26	Q1553-5	See Footnote 4	34
PE-63586	P578	40	PE-65838	T608	20, 27	PE-68881	T608	21, 26	Q1553-50	See Footnote 4	34
PE-63587	P578	40	PE-65839	T608	20, 27	PE-68882	T608	21	Q1553-52	See Footnote 4	34
PE-63588	P578	40	PE-65848	T602	23, 24	PE-68884	T608	21, 26	Q1553-81	See Footnote 4	34
PE-63618	P578	40	PE-65853	G002	14	PE-68887	T608	21, 26	Q1553-82	See Footnote 4	34
PE-63619	P578	40	PE-65854	G002	14	PE-68992	T604	23	Q1553-83	See Footnote 4	34
PE-63691	P578	40	PE-65855	G002	14	PE-68993	T604	23-25	Q1553-84	See Footnote 4	34
PE-64487	P578	40	PE-65856	T606	22	PE-68995	T604	23-25	Q1553-85	See Footnote 4	34
PE-64488	P578	40	PE-65857	G002	14	PE-68998	T604	23-25	R0003	G002	14
PE-64517	P578	40	PE-65861	T608	20, 26	PE-68999	T604	23, 24	SF1012	SF1012	12, 13
PE-64518	P578	40	PE-65862	T608	20, 26	PE-69011	G002	14	SF5750T	SF5750T	17
PE-64519	P578	40	PE-65865	T608	20, 26	PE-69012	H304	7-11	SF9023	C202	28
PE-64683	G002	14	PE-65866	T608	20, 26	PE-69300	B901	16	SFQ1553-1	See Footnote 3	34
PE-64931	T608	20	PE-65870	T608	20, 26	PE-69301	B901	16	SFQ1553-2	See Footnote 3	34
PE-64933	T608	20, 26	PE-65944	G002	14	PG0006.102	PC500	39	SFQ1553-3	See Footnote 3	34
PE-64934	T608	20, 26	PE-65948	T602	23	PG0006.212	PC500	39	SFQ1553-5	See Footnote 3	34
PE-64936	T608	20, 26	PE-65950	G002	14	PG0006.301	PC500	39	SFQ1553-45	See Footnote 3	34
PE-64937	T608	20, 26	PE-65966	T606	22, 25	PG0006.312	PC500	39	SGQ1553-1	See Footnote 3	34
PE-64940	T608	20	PE-65967	T606	22, 25	PG0006.422	PC500	39	SGQ1553-2	See Footnote 3	34
PE-64941	T608	20	PE-65968	T606	22, 25	PG0006.462	PC500	39	SGQ1553-3	See Footnote 3	34
PE-64942	T608	20	PE-65969	T606	22, 25	PG0006.552	PC500	39	SGQ1553-5	See Footnote 3	34
PE-64943	T608	20	PE-67050	P577	40	PG0006.601	PC500	39	SGQ1553-45	See Footnote 3	34
PE-64950	T608	20, 27	PE-67100	P577	40	PG0040.102	PC500	36	SMQ1553-6	See Footnote 4	34
PE-64951	T608	20, 27	PE-67200	P577	40	PG0040.103	PC500	36	SMQ1553-7	See Footnote 4	34
PE-64952	T608	20, 27	PE-67300	P577	40	PG0040.104	PC500	36	SMQ1553-8	See Footnote 4	34
PE-64953	T608	20	PE-67501	G002	14	PG0040.152	PC500	36	SMQ1553-10	See Footnote 4	34
PE-64954	T608	20, 27	PE-67531	G002	14	PG0040.153	PC500	36	SMQ1553-45	See Footnote 4	34
PE-64955	T608	20	PE-67539	G002	5, 14	PG0040.154	PC500	36	ST2-XXXX	PC500	40
PE-64956	T608	20	PE-67540	G002	5, 14	PG0040.222	PC500	36	ST3-XXXX	PC500	40
PE-64957	T608	20	PE-68002	G002	14	PG0040.223	PC500	36	ST4-XXXX	PC500	40

# PRODUCT INDEX



Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page	Part Number	Data Sheet	Page
ST4190T	ST4190T	12	T1076	T608	20, 26	T3027	T619	22, 25	TX1199	T662	21
ST4202T	ST4202T	5, 12, 13	T1077	T608	20, 26	T3048	T663	22, 25	TX1281	T669	20
ST5020	ST5020	20	T1078	T622	22	T3049	T663	22, 25	TX1282	T669	20
ST5028	ST5028	20	T1080	T617	21, 27	T4001	T614	22, 24	TX1283	T669	20
ST5048	ST5048	23-25	T1081	T617	21, 27	T4002	T614	22, 24	TX1284	T669	20
ST5069	ST5069	23-25	T1082	T617	21, 27	T4004	T614	22, 24	TX1287	T608	21, 26
ST5078	ST5078	20	T1090	T608	20, 26	T4006	T614	22, 24	TX1292	T622	22, 27
ST5116	ST5116	20	T1091	T608	20, 26	T4008	T616	22, 24	TX1294	T622	22
ST5122	ST5122	20	T1092	T608	20, 26	T4022	T625	22, 24	TX1295	T622	22
ST5179T	ST5179T	21	T1093	T608	20, 26	T4031	T624	22, 24	TX1299	T622	22, 27
ST5180T	ST5180T	22	T1094	T608	20, 26	T4032	T624	22, 24	TX1300	T662	21
ST5201	ST5201	23-25	T1095	T608	20, 26	T4033	T624	22, 24	TX1301	T662	21
ST5382	ST5382	17	T1096	T608	20, 26	T4043	T624	22, 24	TX1314	T678	20
ST5-XXXX	PC500	40	T1097	T608	21	T4067	T624	22, 24	TX1315	T678	20
ST7-XXXX	PC500	40	T1103	T622	22, 27	T5002	T631	23-25	TX1317	T608	21
ST6118T	ST6118T	4	T1104	T622	22, 27	T5003	T631	23-25	TX1341	T671	22
ST6122T	ST6122T	4	T1105	T622	22, 27	T5004	T631	23-25	TX1342	T671	22
ST6129T	ST6129T	4	T1106	T622	22	T5005	T613	23-25	TX1471	T671	22
ST6200T	A105	23, 24	T1107	T622	22, 27	T5006	T613	23, 24	TX3025	T655	22, 25
ST6-XXXX	PC500	40	T1108	T622	22, 27	T5007	T613	23-25	TX3026	T655	22, 25
ST7010T	ST7010T	5, 12	T1109	T622	22, 27	T5008	T613	23-25	TX3036	T672	22, 25
STQ1553-1	See Footnote 3	34	T1110	T622	22, 27	T5009	T613	23	TX3045	T663	25
STQ1553-2	See Footnote 3	34	T1111	T622	22, 27	T5010	T613	23, 24	TX3051	T668	22, 25
STQ1553-3	See Footnote 3	34	T1112	T622	22	T5011	T632	23-25	TX3052	T668	22, 25
STQ1553-5	See Footnote 3	34	T1113	T622	22, 27	T5012	T632	23-25	TX9020	T677	22, 27
STQ1553-45	See Footnote 3	34	T1114	T622	22, 27	T5013	T632	23-25	TX9022	T677	22
T-1062SCT	See Footnote 5	33	T1121	T608	20	T5015	T632	23-25	TX9023	T674	22, 27
T-1250SCT	See Footnote 5	33	T1122	T608	20, 26	T5020	T633	23	TX9031	T670	22, 27
T-1485SCT	See Footnote 5	33	T1124	T622	21, 27	T5021	T633	23	x1553-1	See Footnote 3	34
T-3305SCT	See Footnote 5	33	T1125	T622	21	T5022	T633	23	x1553-2	See Footnote 3	34
T1001	T615	21, 27	T1129	T622	21	T5023	T633	23	x1553-3	See Footnote 3	34
T1005	T615	21, 27	T1131	T608	21	T5024	T633	23	x1553-45	See Footnote 3	34
T1006	T615	21, 27	T1136	T608	20, 26	T5025	T633	23	x1553-5	See Footnote 3	34
T1007	T615	21, 27	T1137	T651	20, 26	T5026	T633	23	Z-200BE	See footnote 2	19
T1008	T615	21, 27	T1142	T622	22, 27	T5033	T633	23	Z-200FR	See footnote 2	19
T1009	T615	21, 27	T1144	T608	20, 26	T5034	T635	23-25	Z-200IT	See footnote 2	19
T1010	T615	21, 27	T1145	T622	22	T5035	T636	23-25	Z-200SM	See footnote 2	18
T1016	T615	21, 27	T1146	T608	21, 26	T5036	T633	23	Z-200UK	See footnote 2	19
T1017	T615	21, 27	T1176	T662	21	T5037	T635	23-25	Z-200UKI2	See footnote 2	19
T1021	T637	20, 26	T1180	T622	22, 27	T5038	T635	23-25	Z-230PJ	See footnote 2	18
T1022	T608	20, 26	T1181	T622	22	T5039	T635	23-25	Z-230PJ	See footnote 2	19
T1023	T608	20, 26	T1182	T622	22	T5042	T638	23-25	Z-230TJ	See footnote 2	18
T1030	T617	21, 27	T1190	T654	20, 26	T5043	T638	23-25	Z-270TJ	See footnote 2	18
T1031	T617	21, 27	T1205	T652	20	T5049	T635	23-25	Z-330CWA	See footnote 2	18
T1032	T617	21, 27	T1207	T660	21, 26	T6003	T628	23	Z-330TJA	See footnote 2	18
T1033	T617	21, 27	T1208	T660	21, 26	T7002	T629	23, 24	Z-420UK-A	See footnote 2	19
T1034	T617	21, 27	T1209	T660	21, 26	T8003	G002	14	Z-470TJ	See footnote 2	19
T1035	T617	21, 27	T1210	T660	21, 26	T8008	G002	14	Z-471TJ	See footnote 2	19
T1036	T617	21, 27	T1211	T660	21, 26	T8055	G002	14	Z-A431PJ31X-A	See footnote 2	18
T1037	T617	21, 27	T1212	T660	21, 26	T9021	T657	22, 27	Z-D250CWA	See footnote 2	18
T1038	T617	21, 27	T1213	T660	21, 26	T9030	T656	22, 27	Z-D250TJA	See footnote 2	18
T1039	T617	21	T1214	T660	21, 26	T9050	T676	22			
T1043	T617	21	T1215	T660	21, 26	TL1553-1	See Footnote 3	34			
T1044	T617	21, 27	T1216	T660	21, 26	TL1553-2	See Footnote 3	34			
T1045	T617	21, 27	T1217	T660	21, 26	TL1553-3	See Footnote 3	34			
T1047	T617	21, 27	T1218	T660	21, 26	TL1553-45	See Footnote 3	34			
T1049	T617	21, 27	T1219	T660	21, 26	TL1553-5	See Footnote 3	34			
T1054	T608	20, 26	T1220	T660	21, 26	TX1089	T608	21			
T1063	T622	21, 27	T1226	T622	22	TX1099	T608	21, 26			
T1064	T622	21, 27	T1229	T659	20, 26, 27	TX1186	T608	21			
T1065	T622	21, 27	T1231	T622	22, 27	TX1187	T608	21			
T1066	T622	21, 27	T1249	T608	20	TX1188	T608	21, 26			
T1067	T622	21, 27	T1286	T608	20	TX1189	T608	21			
T1068	T622	21, 27	T1308	T666	21	TX1192	T662	21			
T1069	T622	21	T1337	T665	21	TX1193	T662	21			
T1070	T622	21, 27	T3001	T619	22, 25	TX1194	T662	21			
T1071	T622	21, 27	T3002	T619	22, 25	TX1195	T662	21			
T1072	T622	21	T3011	T619	22, 25	TX1196	T662	21			
T1073	T622	21, 27	T3012	T619	22	TX1197	T662	21			
T1075	T637	20	T3020	T655	22, 25	TX1198	T662	21			

**FOOTNOTES:**

- The data sheet on these Mil-Aero products is at <http://www.pulsespecialty.com/pdfs/Fibre.pdf>.
- For information about the Excelsus product line, visit <http://www.excelsus-tech.com>.
- The data sheet on these Mil-Aero products is at <http://www.pulsespecialty.com/pdfs/NQPLC2.pdf>.
- The data sheet on these Mil-Aero products is at <http://www.pulsespecialty.com/pdfs/QLP6.pdf>.
- The data sheet on these Mil-Aero products is at <http://www.pulsespecialty.com/pdfs/fc-dual.pdf>.

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