

teletronik®

HaGaAs 33

**Distribution amplifier
with return path**

FEATURES

- Compact die-cast aluminium house
- Active return path with GaAs module
- 12dbμV output power
- Steppless EQ/tilt (0-18dB)
- -30°C ... +55°C operating temperature
- Local (230V) or line (60V) feeding

SPECIFICATIONS

Type		HaGaAs 33
Frequency range	forward path	85 ... 860MHz
	return path	5 ... 65MHz
Gain	forward path	33dB
	return path	12dB
Gain adjustment		0-33dB
Slope adjustment	input	0/10dB
	interstage	0/6dB
Frequency response		± 0.5dB
Distortion	CSO	60 dB @ 42ch, 108 dBμV
	CTB	60 dB @ 42ch, 112 dBμV
Input and output return loss		16 dB – 1.5 dB/octave typ.
Technology	forward	GaAs
	reverse	Si
Test point attenuation		-
Input voltage		A: 24V - 65V AC (50Hz) or B: 230V AC ± 10% (50 Hz)
AC current pass (max)		6A
Noise figure	forward	≤ 8 dB
	reverse	≤ 7 dB
Power consumption (max)		14 W
Operating temperature range		-30°C ... +55°C
Dimension		215 x 117 x 85 mm
Weight (packed)		2.3 kg

MODELS

Model name	Description
LA 833 A 30/47	Line powered (60V), 1-way amplifier with 30/47 MHz duplex filter
LA 833 A 65/85	Line powered (60V), 1-way amplifier with 65/85 MHz duplex filter
LA 833 B 30/47	Local powered (230V), 1-way amplifier with 30/47 MHz duplex filter
LA 833 B 65/85	Local powered (230V), 1-way amplifier with 65/85 MHz duplex filter

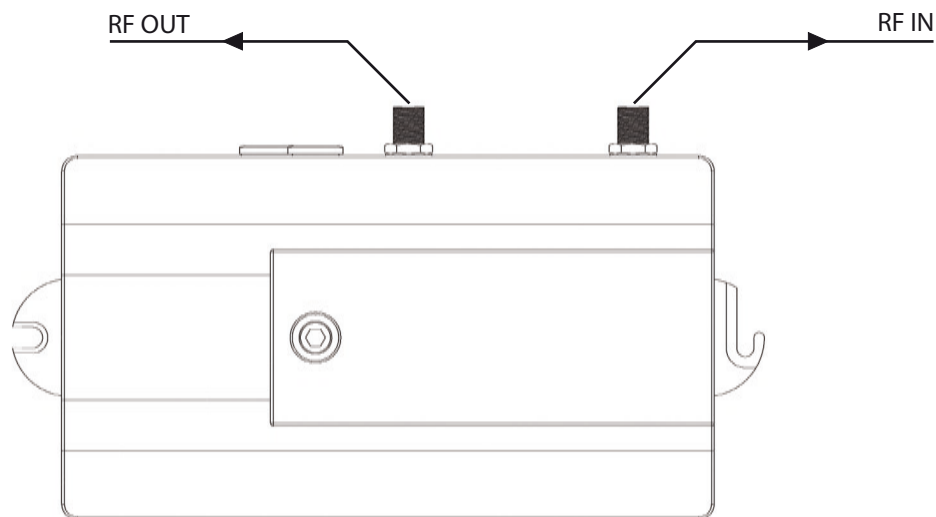
SHORT DESCRIPTION

The HA GaAs-33 amplifier is intended to be used as a group-amplifier in limited cascades (2 to 3 amplifiers) or as a final amplifier for high-density areas.

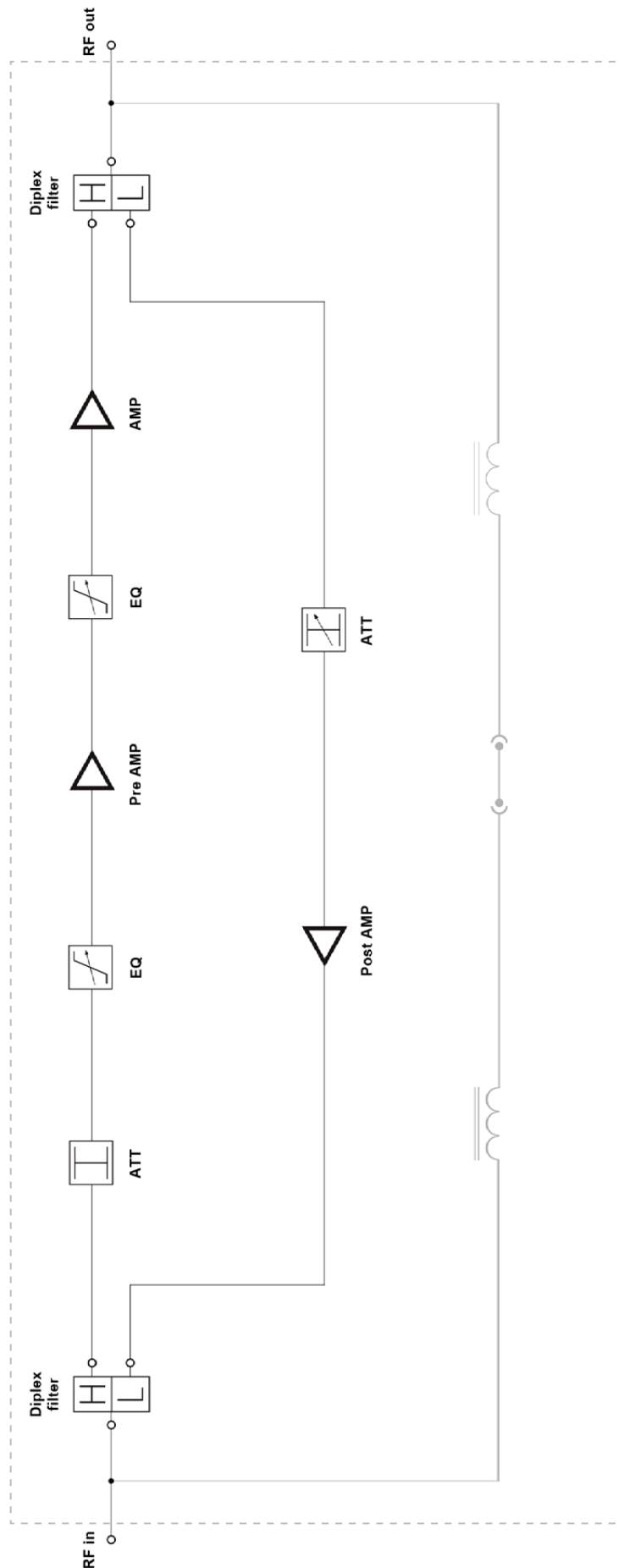
The use of GaAs technology allows operation at high gain (+33dB) and a high output level. The **teletronik** HA GaAs-33 is especially designed for cost-effective upgrading of all kinds of networks up to 870 MHz. With the integrated +12dB return path modul the HA GaAs-33 is also suitable for upgrading systems to handle interactive services like internet provision.

The HA GaAs-33 is built with a one screw easy sealable water resistant house and can be ordered either in line powered version or with a mains PSU. Therefore it is the most universal and fast installable **teletronik** CATV amplifier which is deployable for a number of stages in the signal path.

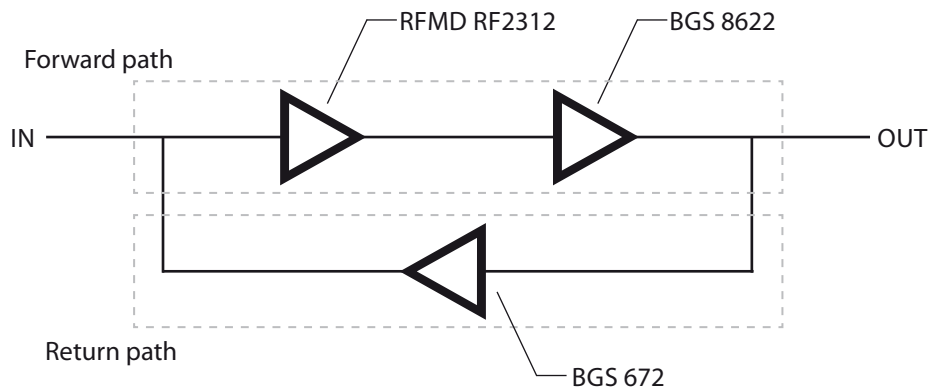
EXTERNAL ALLOCATION



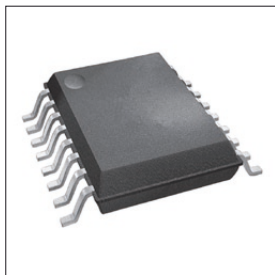
BLOCK DIAGRAM



AMPLIFIER MODULES

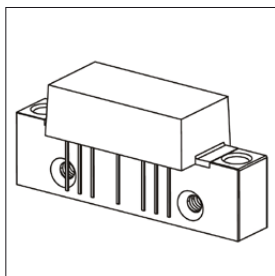


RF2312



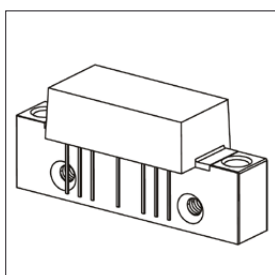
Parameters	
CTB (composite triple beat)	>86dBc @ 61.25MHz (77 Channels to 550MHz @10dBmV)
CSO (composite second order)	>86dBc @ 61.25MHz (77 Channels to 550MHz @10dBmV)
Power Gain	16dB
Operating temp. (min. / max.)	-40 / +85 °C
Frequency range	0-2,5 GHz

BGS 8622



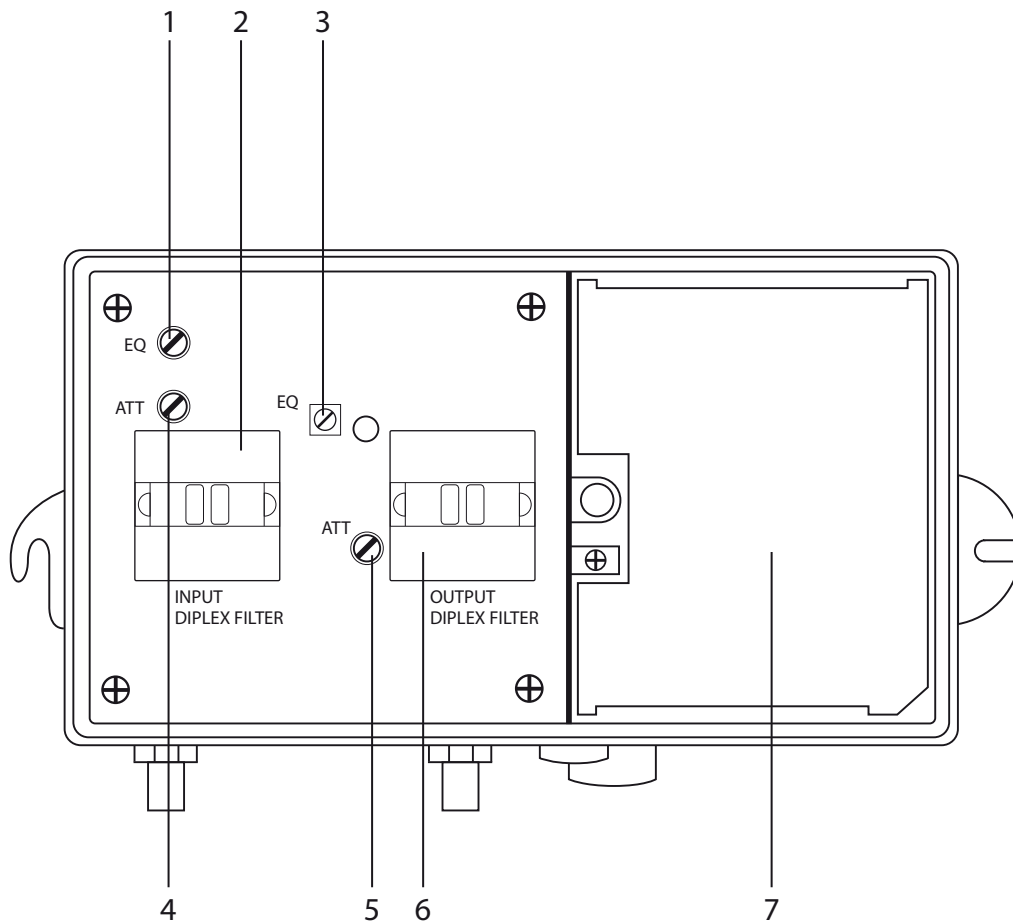
Parameters	
CTB (composite triple beat)	>70dBc @ 61.25MHz (77 Channels to 850MHz @ 61dBmV)
CSO (composite second order)	>71dBc @ 61.25MHz (77 Channels to 850MHz @ 61dBmV)
Power Gain	21dB
Operating temp. (min. / max.)	-40 / +85 °C
Frequency range	45-870 MHz

BGS 672



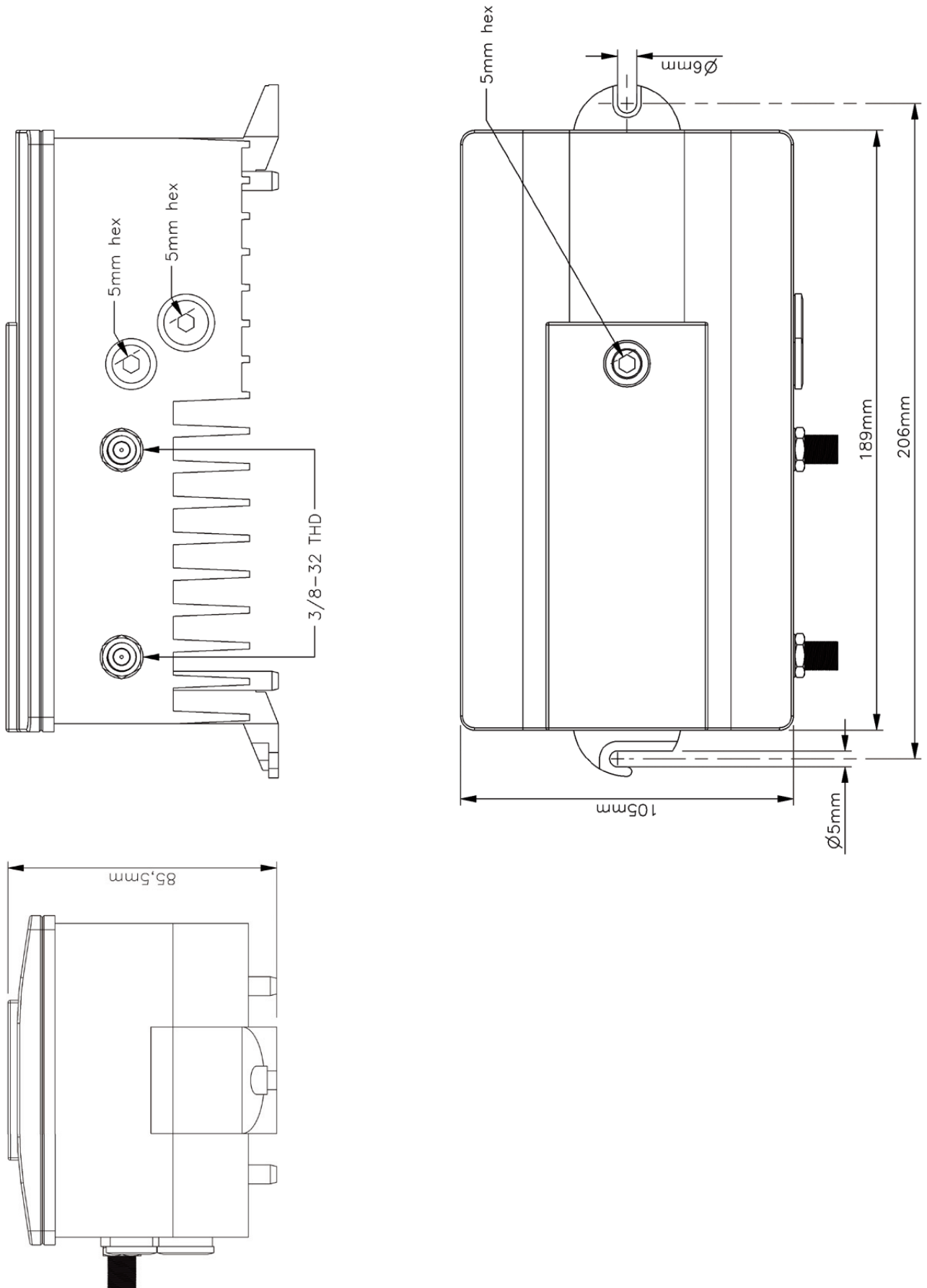
Parameters	
CTB (composite triple beat)	>67dBc @ 67.25MHz (14 Channels @ 48dBmV)
CSO (composite second order)	>67dBc @ 116,5MHz (14 Channels @ 48dBmV)
Power Gain	25dB
Operating temp. (min. / max.)	-20 / +90 °C
Frequency range	5-120 MHz

INTERNAL BUILDUP

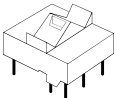
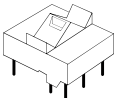


Component	
1.	Equalizer (EQ 1)
2.	Diplex filter
3.	Equalizer
4.	Attenuator (ATT 1)
5.	Attenuator (R ATT)
6.	Diplex filter
7.	Power supply

DIMENSIONS



ACCESSORIES

type	image	circuit socket	parameters	item code
30/47 Diplex filter		Diplex Filter	30/47-2 (in)	AMMHA833DF3047
			30/47-A (out)	AMMHA833DF3047A
65/85 Diplex filter		Diplex Filter	65/85-2 (in)	AMMHA833DF6585
			65/85-A (out)	AMMHA833DF6585A

PREINSTALLED COMPONENTS

pcs	type	parameters
2x	Equalizer	0-20dB
1x	Diplex filter	65/85-2
1x	Diplex filter	65/85-A
2x	Attenuator	0-18dB