


House connection amplifiers *eco-power* with return path

Type	GHV 820 C	GHV 830 C
Order No.	940 020-062	940 022-062 *
		
Frequency range		
selected: VHF I "on", RP "off"	— / 40 ... 862 MHz	— / 40 ... 862 MHz
selected: VHF I "off", RP "on"	5 ... 65 / 85 ... 862 MHz	5 ... 65 / 85 ... 862 MHz
Gain forward		
G @ 862 MHz	21 dB	29 dB
Attenuator (2 dB steps) at input	0 ... 16 dB	0 ... 16 dB
Gain return path		
G @ 60 MHz via output 1	-1.5/18 dB	-1.5/21 dB
Attenuator elements at input	0/3/6/9/50 dB	0/3/6/9/50 dB
Attenuator elements at output	0/6 dB	0/6 dB
Amplitude response forward		
40...862 MHz (VHF I: on)	1.5 dB	1.5 dB
Fix slope	+1 dB	+1 dB
Line equalizer (2...3 dB steps)	0 ... 16 dB	0 ... 16 dB
Amplitude response return path		
5...60 MHz	1.5 dB	1.5 dB
Random noise		
forward (VHF I "on")	5 dB	5 dB
return path (VHF I "off")	6 dB	6 dB
Return loss		
@ 40 MHz, -1,5 dB/octave	>14 dB	>14 dB
Output level forward		
IMR2/ IMR3 ≥60 dB	100 / 113 dB μ V	100 / 113 dB μ V
CSO/CTB ≥ 60dB, 42 ch, Slope 4 dB	97 / 98 dB μ V	101 / 101 dB μ V
Output level return path		
IMR2/ IMR3 ≥60 dB	102 / 113 dB μ V	102 / 113 dB μ V
RF connectors (75 Ω)		
Input	F female	F female
Output	F female	F female
Operating conditions		
max. RF-level (EMC)	105 dB μ V	105 dB μ V
Supply voltage	230 V \pm 10%	230 V \pm 10%
Power consumption	5 W	6 W
Operating temperature	-25° ... +55°C	-25° ... +55°C
Protection class	II	II
Degree of protection (IP)	IP 20	IP 20
Weight	0.64 kg	0.64 kg
Dimensions WxHxD	150x80x50 mm	150x80x50 mm
Reference standards		
Product standards	EN 50083-3 Class 2	EN 50083-3 Class 2
Safety	EN 50083-1; EN 60065	EN 50083-1; EN 60065
EMC	EN 50083-2	EN 50083-2
RoHS 2002/95/EG compliant	yes	yes
Packing unit		
Sales unit	1 pc. in cardboard box	1 pc. in cardboard box

GHV 820 C/GHV 830 C

GHV 820 C and GHV 830 C are multimedia enclosed house connection amplifier for small to medium-sized building units. They are used to balance out the cable and distribution attenuation in the CATV domestic networks.

"All on board" - all of the important function units, such as preamplifier, diplex filters, return channel amplifiers and the associated actuators are completely implemented on board.

The amplifier is configured for the specific use using jumpers in the device and can be done both during installation and during operation.

- **Simple migration of the return channel with ROB-"return channel options on board".** Either "TV band I" or "Return channel 65 MHz" can be selected. Adjustable return channel:"active"/"passive"/"off", optimum adjustment of the reverse channel amplification (C/N) by means of adjustable attenuators at the input and output.
- **Advanced long term stability due to discrete, switchable attenuators and equalizers** i.e. no usage of spin potentiometers or a large number of plug-in pads
- **Multi emitter transistor amplifier** on a 1-GHz platform with low energy consumption
- **Long life cycle** thanks to low temperature development due to low power consumption and the die cast housing with cooling units.



* Preliminary data