

House connection amplifiers *eco-power* with return path

Type	GHV 820 A	GHV 830 A
Order No.	940 020-061	940 022-061



Frequency range selected: VHF I "on", RP "off" selected: VHF I "off", RP "on"	— / 40 ... 862 MHz 5 ... 65 / 85 ... 862 MHz	— / 40 ... 862 MHz 5 ... 65 / 85 ... 862 MHz
Gain forward G @ 862 MHz Attenuator at input	21 dB 0 ... 20 dB	29 dB 0 ... 20 dB
Gain return path G @ 60 MHz via output 1	-1.5/10 dB	-1.5/ 10 dB
Amplitude response forward 40...862 MHz (VHF I: on) Fix slope Line equalizer at input	1.5 dB +1 dB 0 ... 18 dB	1.5 dB +1 dB 0 ... 18 dB
Amplitude response return path 5...60 MHz	1.5 dB	1.5 dB
Random noise forward (VHF I "on")	5.5 dB	5.5 dB
Return loss @ 40 MHz, -1,5 dB/octave	>14 dB	>14 dB
Output level forward IMR2/ IMR3 ≥60 dB CSO/CTB ≥ 60dB, 42 ch, Slope 4 dB	100 / 113 dB μ V 97 / 100 dB μ V	105 / 115 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 Output	F female F female	F female F female
Operating conditions max. RF level (EMC) Supply voltage Power consumption Operating temperature Protection class Degree of protection (IP) Weight Dimensions WxHxD	105 dB μ V 230 V \pm 10% 4.5 W -25° ... +55°C II IP 20 0.64 kg 150x80x50 mm	105 dB μ V 230 V \pm 10% 6 W -25° ... +55°C II IP 20 0.64 kg 150x80x50 mm
Reference standards Product standards Safety EMC RoHS 2002/95/EG compliant	EN 50083-3 Class 2 EN 50083-1; EN 60065 EN 50083-2 yes	EN 50083-3 Class 2 EN 50083-1; EN 60065 EN 50083-2 yes
Packing unit Sales unit	1 pc. in cardboard box	1 pc. in cardboard box

GHV 820 A/GHV 830A

GHV 820 A and GHV 830 A are multimedia enabled house connection amplifiers 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, duplex 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.
- **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.
- **Spin potentiometers** for easy adjustment

