


House connection amplifier *high-power*

Type	GPV 845 C	GPV 845 CF
Order No.	940 153-001	940 154-061
		
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 (2 dB steps) at input Attenuator elements interstage	36 dB 0 ... 16 dB 0/6 dB	36 dB 0 ... 16 dB 0/6 dB
Gain return path G @ 60 MHz via output 1 Attenuator elements at input Attenuator elements at output	-1.5/26 dB 0/2/4/6/50 dB 0/3/6/9 dB	-1.5/26 dB 0/2/4/6/50 dB 0/3/6/9 dB
Amplitude response forward 40...862 MHz (VHF I: on) Fix slope Line equalizer (2...3 dB steps) Slope interstage	1.5 dB +1 dB 0 ... 16 dB 0/7 dB	1.5 dB +1 dB 0 ... 16 dB 0/7 dB
Amplitude response return path 5...60 MHz Equalizer elements interstage	1.5 dB 0/3/6 dB	1.5 dB 0/3/6 dB
Random noise forward (VHF I "on") return path (VHF I "off")	5.5 dB 6 dB	5.5 dB 6 dB
Return loss @ 40 MHz, -1,5 dB/octave	>14 dB	>14 dB
Output level forward IMR2/ IMR3 ≥60 dB CSO/CTB ≥60 dB, 42 ch, flat CSO/CTB ≥ 60dB, 42 ch, Slope 7 dB	114 / 123 dB μ V 109 / 108 dB μ V 111 / 110 dB μ V	114 / 123 dB μ V 109 / 108 dB μ V 111 / 110 dB μ V
Output level return path IMR2/ IMR3 ≥60 dB	104 / 115 dB μ V	104 / 115 dB μ V
RF connectors (75 Ω) Input Output Test point input: bi-directional Test point output: directional	F female F female -20 dB -20 dB	F female F female -20 dB -20 dB
Operating conditions max. RF level (EMC) Supply voltage Power consumption Operating temperature Protection class Degree of protection (IP) Weight Dimensions WxHxD	113 dB μ V 180 ... 253 V 9 W -25° ... +55°C II IP 65 2 kg 190x110x85 mm	113 dB μ V 25 ... 65 V 9 W -25° ... +55°C II IP 65 2 kg 190x110x85 mm
Reference standards Product standards Safety EMC RoHS 2002/95/EG compliant	EN 50083-3 Cl. 2 EN 50083-1; EN 60065 EN 50083-2 yes	EN 50083-3 Cl. 2 EN 50083-1; EN 60065 EN 50083-2 yes
Packing unit Sales unit	1 pc. in cardboard box	1 pc. in cardboard box

GPV 845 C / CF

GPV 845 C and GPV 845 CF are multimedia enabled house connection amplifiers for medium to large-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 without additional modules**. 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 regulators or a large number of plug-in pads
- **High output level with extremely low power consumption** thanks to MMIC GaAs-Push-Pull output stage and switching power pack with high degree effectiveness
- **Long life cycle** thanks to low temperature development due to low power consumption and the die cast housing with cooling units.
- **Power supply** GPV 845 C local feeding from 230 V domestic network
- **Power supply** GPV 845 CF remote feeding from the coaxial network
- **Options on request**
Return path 5...30 MHz,
RF input 5/8" for remote feeded device,
second RF output with tap