



Amplifiers

House connection amplifiers *high-power* †

Type	GPV 851 I	GPV 851 F
Order No.	944 770-013	944 777-001
		
Frequency range		
Basic unit without RP modules	47 ... 862 MHz	47 ... 862 MHz
Gain forward		
G @ 862 MHz	36 dB	36 dB
Attenuator at input	0 ... 20 dB	0 ... 20 dB
Attenuator elements interstage	0/7 dB	0/7 dB
Amplitude response forward		
47...862 MHz	1.5 dB	1.5 dB
Line equalizer at input	0 ... 18 dB	0 ... 18 dB
Selectable equalizer pivot point	862 / 606 MHz	862 / 606 MHz
Slope interstage	0/7 dB	0/7 dB
Random noise		
Noise figure	7 dB	7 dB
Return loss		
@ 40 MHz, -1,5 dB/octave	>14 dB	>14 dB
Output level forward		
IMR2/ IMR3 ≥60 dB	117 / 124 dB _{μV}	117 / 124 dB _{μV}
CSO/CTB ≥60 dB, 42 ch, flat	113 / 112 dB _{μV}	113 / 112 dB _{μV}
CSO/CTB ≥ 60dB, 42 ch, Slope 7 dB	114 / 114 dB _{μV}	114 / 114 dB _{μV}
RF connectors (75 Ω)		
Input	F female	F female
Output	F female	F female
Test point input: bi-directional	-30 dB	-30 dB
Test point output: bi-directional	-30 dB	-30 dB
Operating conditions		
Max. RF level (EMC)	113 dB _{μV}	113 dB _{μV}
Supply voltage	195 ... 244 V	32 ... 65 V
Max. throughpass current	-	2 A
Power consumption	13 W	14 W
Operating temperature	-40° ... +55°C	-40° ... +55°C
Protection class	II	II
Degree of protection (IP)	IP 65	IP 65
Weight	2.0 kg	2.0 kg
Dimensions WxHxD	190x110x85 mm	190x110x85 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

GPV 851 I

Modular distribution amplifier for large buildings

- Power doubler output stage
- HF ports with F sockets (female)
- Die-cast housing, protection type IP 65 (when suitable F connectors are used), for installation inside and outside buildings
- Two basic amplifications selectable with internal jumpers (interstage)
- Equalization with internal jumpers, switchable to 606 MHz or 862 MHz
- Return channel (together with plug-in modules GRM...)
- Passive with diplex module
- Active with return channel module
- With diplex modules configurable return / forward channel
5-30 MHz / 47-862 MHz
5-65 MHz / 85-862 MHz

Note

- GRM diplex and return channel module are behind the line / distribution amplifiers

Remotely supplied version GPV 851 F

- Selectable remote feed path:
- Via input
- Via output
- Feed through