Terrestrial and SAT signal amplifiers

CNV 11 F

- *Remotely powered postamplifier for terrestrial and SAT signals*
- *Powered by LNBs via the HF cable*
- *For single-antenna systems with long cable runs*
- *One input,one output*
- *LNB and postamplifier powered by the receiver or by multi-switch*
- *LES 2020 F line equalizer to balance frequency-dependent cable attenuation in distrubution network at the end of this chapter*
- *Conforms to EN 50083-2*
- *HF connections: F-connectors*
- A CLASS CE

CVE 235

- *Head end amplifier for amplifying and merging satellite signals in the 1st IF band (950-2400 MHz) and terrestrial signals (47-862 MHz)*
- *For receiving analog and digital signals*
- *One input each for horizontally and vertical-lypolarized satellite signals*
- *The terrestrial signal is fed passively via one input to both outputs*
- *One output each for horizontal SAT signals and terrestrial - vertical SAT signals and terrestrial For remote feeding of receiving systems via the SAT input (13 V / 18 V)*
- *Suitable for Twin LNBs*
- *Conforms to EN 50 083-1, -2*
- *HF-connections: F-conectors*
- A CLASS CE

CNV 235 E

- *Post-amplifier to balance attenuation loss in the distribution network*
- *Selective signal amplification of terrestrial and two SAT signals*
- *20 dB level control for each band*
- *Powered via the DC input with power supply unit supplied*
- *Conforms to EN 50083-1, -2*
- *RF connections: F-connectors*
- A CLASS CE

Type	CNV 11 F	CVE 235	CNV 235 E
Order No.	947 764-001	947 642-001	947 643-002
			
47-862 MHz			
Gain	12 dB	29 dB	- 5 dB
Level adjuster		0-20 dB	
Equalizer		0-20 dB	
Decoupling input to input		60-55 dB	
Decoupling output to output		20-18 dB	
Output level	95[1] /113[2] dBµV	108[1] /118[2] dBµV	
Noise figure	5 dB	4-5 dB	
Return loss input		12 dB	10 dB
Return loss output		12 dB	13 dB
950-2150 MHz			
Gain	13-21 dB	36 dB	30-35 dB
Level adjuster		0-20 dB	
Equalizer		0-10 dB	5 dB
Decoupling input to input		60 dB	60 dB
Decoupling output to output		55 dB	
Decoupling input to output		60 dB	
Output level	103[3] / 115[4] dBµV	110[3] / 121[4] dBµV	110[3] / 121[4] dBµV
Noise figure	6 dB	8 dB	8 dB
Return loss input		10 dB	9 dB
Return loss output		10 dB	10 dB
2150-2400 MHz			
Gain	20 dB	27 dB	27 dB
Decoupling input to input		55 dB	55 dB
Decoupling output to output		55 dB	
Decoupling input to output		55 dB	
Output level	103[3] / 113[4] dBµV	107[3] / 118[4] dBµV	107[3] / 118[4] dBµV
Noise figure	6 dB		8 dB
Return loss input		8 dB	7 dB
Return loss output		8 dB	8 dB
Operating conditions			
Remote feed voltage	13-18V, max 450 mA		
Current consumption	35 mA		
Power consumption	approx. 0.6 W		
Weight	0.6 kg	1.5 kg	1.6 kg
Dimensions WxHxD	80x44x25 mm	285x115x70	348x115x83 mm
Operating voltage		230V~/50-60 Hz	230V~/50-60 Hz
Operating temperature	-20°C to +60°C	-20°C to+60°C	-20°C to +60°C

1) *According to EN 50083, Part 5 for 2nd order interference products at 60 dB IMD*
2) *According to EN 50083, Part 5 for 3rd order interference products at 60 dB IMD*
3) *According to EN 50083, Part 5 for 2nd order interference products at 35 dB IMD*
4) *According to EN 50083, Part 5 for 3rd order interference products at 35 dB IMD*
All values with level control at 0 dB and linear frequency response (0 dB equalization)