



VOS 43/RA-1G2

House connection amplifier up to 1.2 GHz

Order no:209500001



- House connection amplifier for modern HFC networks up to 1.2 GHz
- Built-in high-efficiency switching power supply
- Power management: switching off amplifier stages that are not required to reduce power consumption
- Cast housing with F connections
- Gain switchable via 6 dB interstage attenuation with jumpers (delivery status: higher gain)
- The maximum operating levels also apply when interstage attenuation is switched on
- Interstage equalizer switchable with jumpers (6 dB preemphasis)
- Integrated return path 5 - 204 MHz active/passive and switchable (switchable with jumpers)
- Permanently installed, adjustable attenuators (return path as supplied: max. attenuation) and adjustable equalizers
- LED as operating indicator
- Test socket at output -20 dB (with directional coupler)
- Test socket at input -20 dB (return path 5 - 204 MHz)
- Test sockets terminated with EMK 03 in as-delivered condition
- For indoor installation
- Fulfill: EN 60728-11, EN 50083-2 and EN 62368-1
- The amplifier complies with the requirements of the EMC Directive 2014/30/EU and the Low Voltage Directive 2014/35/EU valid at the time of delivery

Technical data:

Type:	VOS 43/RA-1G2
Order no:	209500001
Forward path:	-----
Frequency range:	258 – 1218 MHz
Gain (switchable via interstage attenuation):	34 40 dB
Amplitude ripple:	± 1 ± 1.5 dB
Setting range attenuation adjuster:	0 – 20 dB
Equalizer setting range:	0 – 15 dB
Interstage attenuation setting range (switchable with jumper):	0 6 dB
Interstage equalizer setting range (switchable with jumper):	0 6 dB
Maximum operating level ¹⁾ (60-dB-CTB/CSO) flat:	108 114 dB μ V
with intersatage preemphasis:	110 116 dB μ V
Maximum operating level ²⁾ (BER <1E-9) flat: with interstage preemphasis:	103 dB μ V 105 dB μ V
Noise figure (interstage attenuation 0/6 dB):	5 6 dB
Number of outputs:	1
Way back:	-----
Frequency range:	5 – 204 MHz
Gain (switchable passive/active):	-1/28 dB and can be switched off
Setting range attenuation at the input of the amplifier (switchable with jumper):	0 10 dB
Adjustment range attenuator (output of the amplifier):	0 – 20 dB
Equalizer setting range (output of the amplifier):	0 – 20 dB
Noise figure:	5 dB
Input level density (CINR: 50 dB):	-11 dB μ V/Hz
Dynamic range (input level density):	21 dB
Maximum operating level (BER <1E-9) 24 channels QAM 256:	106 dB μ V
General information:	-----
Impedance input/output:	75 Ω
Return loss input/output	18 dB
Forward path ³⁾	20 dB
Return path	
HF connections:	F-Connector
Test socket output with directional coupler (5 – 1218 MHz)	-20 dB
Test socket output return path (5 – 204 MHz)	-20 dB
Nominal input voltage:	230 (50/60 Hz) _{VAC}
Power consumption (without with return path)	6 8 W
Power indicator:	LED green

Status 02/2025

Protection class/protection type (according to EN 60529):	II/IP 50
Temperature range:	-20 to +55 °C
Dimensions:	184 x 134 x 63 mm
Packaging unit/weight:	1 (10)/1.7 pcs/kg

¹⁾ According to EN 60728-3; CENELEC grid 34 carriers; level values also apply when interstage attenuation is switched on

²⁾ According to EN 60728-3 119 channels 256 QAM

³⁾ According to EN 60728-3 (category B); from 40 MHz 18 dB -1.5 dB/octave

Downloads

- [VOS 43/RA-1G2 - Produktdatenblatt \(Version: 03/2025 - Größe: 173.15 KB\)](#)
- [VOS 43/RA-1G2 - User Manual \(Version: 1 - Größe: 549.90 KB\)](#)
- [VOS 43/RA-1G2 - Bedienungsanleitung \(Version: 1 - Größe: 556.55 KB\)](#)



Produkt Galerie / Product Gallery:

