

Order number: 20910028**Open text field 1:**

House connection amplifier for modern HFC networks

Remotely fed via RF input (auto-supply)

Latest GaAs-MMIC technology

Very high output level with favourable energy balance

Highly efficient switched-mode power supply unit

New, innovative operational concept:

- Easy levelling using rotary switch, large setting range (20 dB), small step width (1 dB)

- Basic configuration using jumpers

- Exactly reproducible device settings

Insert position for additional functions in forwards path (e.g. de-emphasis, system equaliser)

Amplification using interstage attenuation with switchable jumper 40/34/30 dB (delivery status: 34 dB)

Bridgeable diplexer (I-band operation without return path possible)

Return path (active/passive/disconnectable) with various setting facilities built-in

Classification in accordance with KDG 1 TS 140: Type D(4.4)

Test sockets (F connectors):

- Two-way at input (connectable)

- With directional coupler at output

Internal LED function display

Voltage surge conductor at input and output

Compliant with: EN 60728-11, EN 50083-2 and EN 60065

Die-cast housing with F connectors (VOS 137/RA, VOS 138/RA) or PG 11 connectors

(VOS 139/RA: order cable fittings separately, not included)

For use in locations protected from weather

The amplifier complies with the requirements in the EMC Directive 2004/103/EC and the Low Voltage Directive 2006/95/EC applicable at the time of delivery

Hersteller: Kathrein**VOS 138/RA**

Product information "VOS 138/RA"

House connection amplifier - 47/85-1006 MHz - F connector -
 Amplification 40/34/30 dB - Level setting / equalisation: 20 dB
 - 113/116 dB μ V (60dB CTB/CSO, Cenelec 42 ch.)

Type:	VOS 138/RA
Order no.:	20910028
Forwards path:	-----
Frequency range ¹⁾:	47/85-1006 MHz
Frequency range:	5-65 MHz
Gain:	-----, 40/34/30 dB
Adjustable attenuator adjustment range:	0-20 dB
Equaliser setting range ²⁾:	0-20 dB
Interstage attenuation adjustment range:	0-20 dB
Setting range for interstage equalisation:	0/3/6 dB, 0/6 dB
Maximum operating level at 862 MHz ³⁾ with 6-dB interstage pre-emphasis (60-dB-CTB/CSO):	113/116 dB μ V
Noise factor:	Typ. 5 dB
Noise factor (interstage attenuation 0/6/10 dB):	Typ. 6/7/7 dB
Number of outputs:	1
Return path:	-----
Amplifier output (5-1006 MHz, with directional coupler):	-20 dB
Amplifier input (5-1006 MHz, two-way):	-20, -20 dB
Temperature range:	-20 to +55 °C
Test sockets:	-----
Remote feed power-capacity:	- A
- 60-dB-IMA2 (EN 60728-3):	107 dB μ V
Switched-mode Power Supply Unit:	-----
Dynamic range (EN 60728-3; 4.7):	17 dB
- 60-dB-IMA3 (EN 50083-5):	116 dB μ V
Maximum output level satisfies KDG 1 TS 140 (full system load):	120 dB μ V
- Active:	30 dB
Setting range input attenuation:	0/10 dB
- Passive:	-2 dB
Test sockets:	F connector
Protection class (in accordance with EN 60529) <input type="checkbox"/> :	IP 54
Nominal input voltage:	32-65 (50/60 Hz) V AC
Typical nominal power consumption <input type="checkbox"/> :	-----
- Return path active:	15 W
Protection class:	-
- Return path passive or deactivated:	14 W
Setting range for interstage attenuation:	0/6/10 dB
Dimensions:	218 x 150 x 80 mm
Hum modulation distance (forwards path/return path):	- dB
RF connections:	F connector
Impedance input/output:	75 Ω
Maximum output level:	-----
Input level density (CINR at 50 dB, EN 60728-3; 4.7):	-10 dB μ V/Hz
Classification in accordance with KDG 1 TS 140:	D(4.4)
General information:	-----
Packaging unit/weight:	1 (10)/1.30 pc/kg

¹⁾ Frequency range from 47 MHz without return path use

²⁾ Pivot point at 862 MHz. From 862 to 1006 MHz flat shape for use in 1 GHz systems

³⁾ In accordance with EN 60728-3; CENELEC channel plan with 42 channels

VOS 138/RA and VOS 139/RA: Nominal input power depends on the infeed voltage when operated via the cable resistor

Outdoor use only in weatherproof cabinets