

Product description

In-house amplifiers VX26M2 are intended for amplifying and distributing radio frequency (RF) signals in cable TV networks.

The amplifiers are powered from the mains 230 V~. The amplifiers have one input, one output and output test point. According to the standard ETSI EN 303 354 V.1.1.1, amplifiers type are Launch, selectivity classification 0.

Safety instructions

Installation of the amplifiers must be done according IEC60728-11 and national safety standards.

Any repairs must be done by a skilled personnel.

The amplifiers are powered from the mains 230 V~. This voltage is dangerous to life.

The amplifiers are double isolated from the mains 230 V~.

To avoid the electric shock follow these instructions:

Do not remove the cover of the power supply section and amplifiers, without disconnecting the unit from the mains supply.

Cover fastening torque 3...4 Nm.

Do not plug the amplifiers into the mains supply if the power cord or plug are damaged.

Do not plug the amplifiers into the mains supply until all cables have been connected correctly.

The mains socket must be easily accessible.

Avoid placing the amplifiers next to central heating components.

If the amplifiers have been kept in cold conditions for a long time, keep it in a warm room no less than 2 hours before powering.

The ventilation should not be impeded with items, such as newspapers, table-cloths, curtains.

The amplifiers are protected from moisture and can be mounted in damp conditions, but do not expose directly to rain or running water.

Mounting

The amplifiers should be mounted vertically with RF connectors underneath.

The amplifier must be fixed with steel screws Ø 4-4.5 mm. The screws are not included in a package.

From top, front and bottom of installed amplifiers must be at least 10 cm free space.

The cover should be fastened with 3...4 Nm (key included in a package).

External view

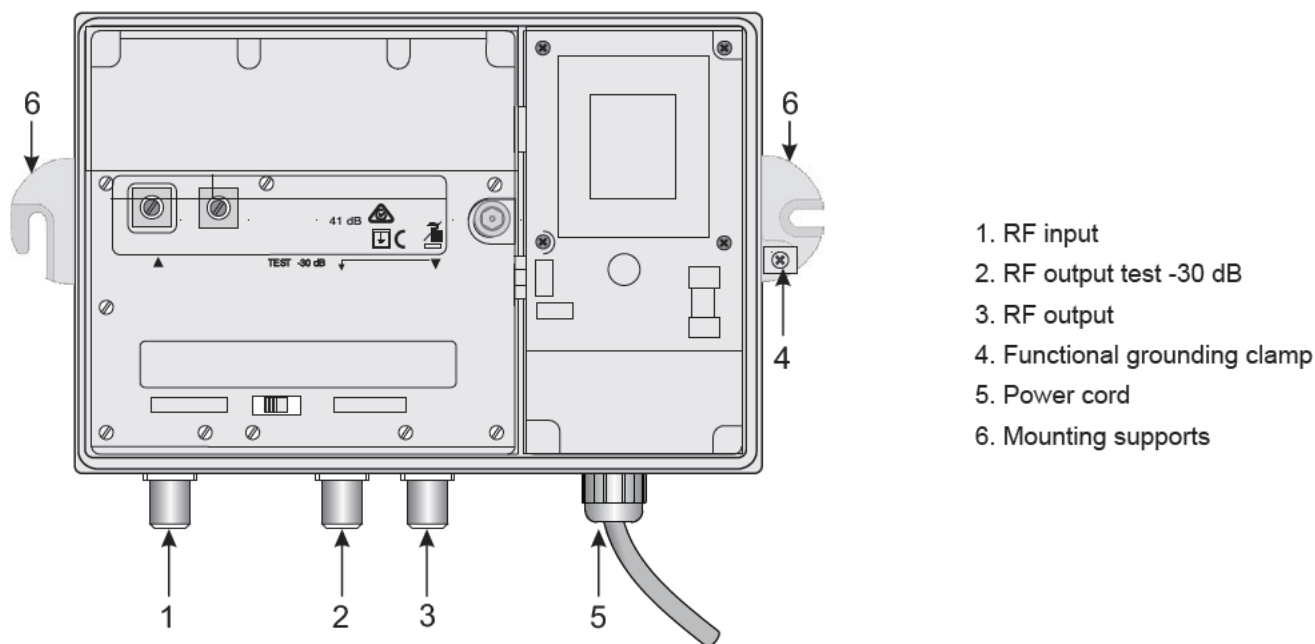


Figure 1. External view of the amplifier

Controls of amplifiers under the cover

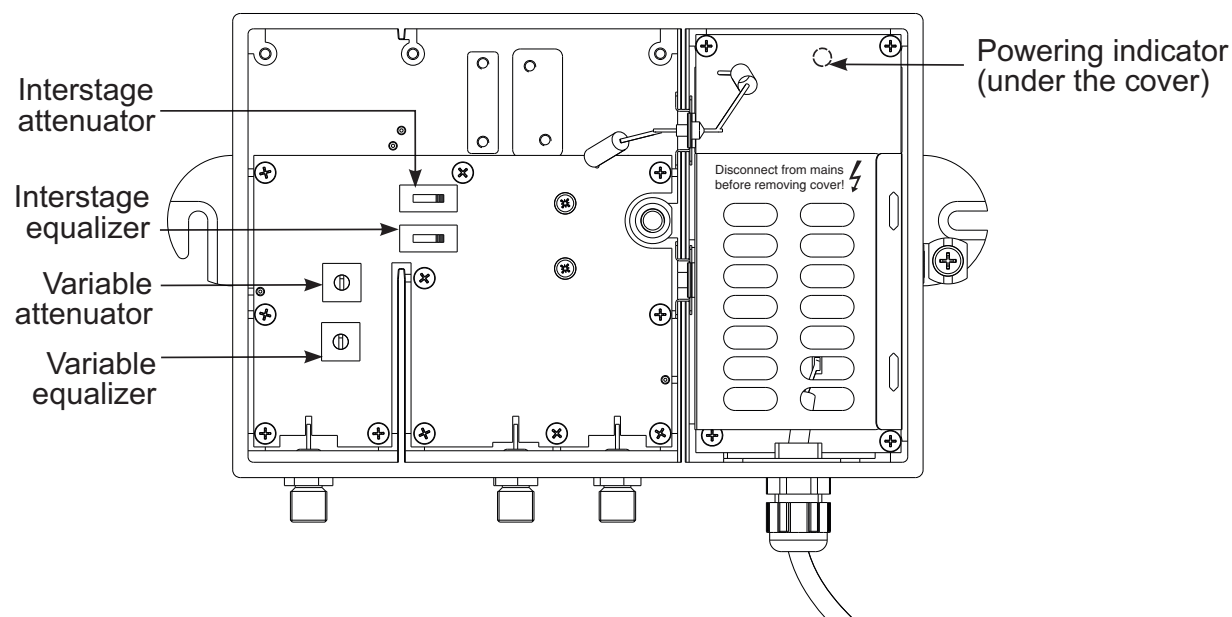


Figure 2. Controls of the amplifier

Block diagram

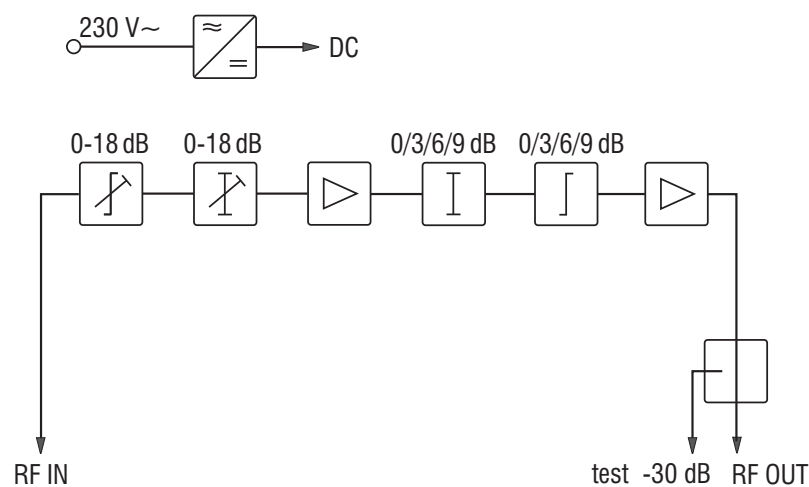


Figure 3. Block diagram of the amplifier

Test point

Output test point is bi-directional. It is used for output signal measurement during adjustment.

Technical characteristics

Type	VX26M2
Frequency range	47-1006 MHz
Gain	43 dB
Flatness	± 0.5 dB
Gain adjustment	18 dB
Slope adjustment, typical	18 dB
Interstage attenuator	0/3/6/9 dB
Inverse equalizer	0/3/6/9 dB
Output level CTB, CSO (EN60728-3)*	116 dBμV
Input and output return loss	≥ 18 dB at 40 MHz - 1.5 dB/octave
Noise figure	< 5 dB
Test point	- 30 dB
Supply voltage limit values, power consumption	198-250V~ 50/60 Hz 13 W
Operating temperature range	-20 °C ÷ +50 °C
Dimensions	180x132x76 mm (main body) 213x132x76 mm (with fixing ears)
Weight (packed)	1.4 kg

* measured with 6 dB interstage equalizer



This product complies with the relevant clauses of the European Directive 2002/96/EC. The unit must be recycled or discarded according to applicable local and national regulations.



Equipment intended for indoor usage only.



Functional grounding. Connect to the main potential equalization.



This product is in accordance with following norms of EU: EMC norm EN50083-2, safety norm EN IEC62368-1, RoHS norm EN50581.



This product is in accordance with Custom Union Technical Regulations: "Electromagnetic compatibility of technical equipment" CU TR 020/2011, "On safety of low-voltage equipment" CU TR 004/2011.



This product is in accordance with safety standard AS/NZS 60065 and EMC standards of Australia.