



Indoor multiband amplifier broadband inputs Fusion Smart FC series

art. 26-835/34-36 FC40 V-4-5-U

Indoor multiband amplifier with broadband inputs, indicated medium/large size TV systems.

This amplifier is designed to optimize the amplification of DTT signals in the range E05÷E12+E21÷E48, attenuating the 700 MHz band without preventing the proper functioning of the channel E48.

Ideal in case of signal fluctuation thanks to the Automatic Gain Control on UHF band which allows to maintain constant the output level.

Selector for setting the maximum UHF band output level: 114 or 124 dB μ V.

The four inputs are so distributed:

- 1 VHF band input;
- 1 band 4 input;
- 1 band 5 input;
- 1 UHF band input.

Each input is equipped with a trimmer for the gain adjustment (VHF: 0÷20 dB; UHF: 0÷15 dB) and a switch to enable remote power supply.

Band 4 includes channels from E21 to E34 included (470÷582 MHz).

Band 5 includes channels from E36 to E48 included (590÷694 MHz).

Switching power supply unit with low consumption and protection system against short circuits.

Fully shielded die-casting metal housing with screw F-type connectors and sturdy case in low flame spread ABS plastic.

Characteristics

- Components with a high quality standard
- Automatic Gain Control (AGC) on UHF band
- Switch for setting the maximum output level in the UHF band 114 or 124 dB μ V

- High output level
- Small size
- Separate amplification for VHF and UHF bands

Code	26-835/34-36	
Item	FC40 V-4-5-U	
No. of inputs	4	
No. of adjustments	4	
VHF band noise figure	dB	6
UHF band noise figure	dB	7
VHF band max output level*	dB μ V	117
UHF band max output level*	dB μ V	114 o 124
VHF input gain	dB \pm 2	32
4 input gain	dB \pm 2	39
5 input gain	dB \pm 2	39
UHF input gain	dB \pm 2	40
AGC range	dB	20
Max delivered current	mA	100
Remote power supply	Vdc	12
Max power consumption	W	5,9
AC main tension	230 V~ \pm 10% 50Hz	
Isolation class	II	
Dimensions (LxWxH)	mm	152x45x100
Packaging dimensions (LxWxH)	mm	160x53x120
Packaging weight	Kg	0,375
Fit temperature	$^{\circ}$ C	0 \div +55
Compliant to EU directives	2014/53/UE, 2011/65/UE	

* Maximum output level measured with the method IM3 -35dBc 2 tones.
Technical data refer to a temperature of 25 $^{\circ}$ C

Example of application

