

RA115X RESIDENTIAL AMPLIFIER



The RA115X is a very compact residential/line-extender amplifier. It may be ordered with active or passive upstream. It does not have any adjustments. Gain is limited to a reasonable level. Both downstream- and upstream amplifiers are of a GaAs type. Power is fed to the amplifier by means of a separate AC-adapter.

Features

- GaAs amplifier technology used
- Models with active return path, RA1151, and passive return path, RA1150
- No adjustments
- Good return loss
- Excellent upstream performance
- Low power consumption

Technical specifications

Parameter	Specification	Note
Downstream signal path		
Frequency range	85...1000 MHz	
Return loss	18 dB	
Gain	14 dB	1
Flatness	± 0,5 dB	2
Group delay	< 5 ns	3
Noise figure	3.5 dB	
CTB 42 channels	99.0 dB μ V	4
CSO 42 channels	93.0 dB μ V	4
Upstream signal path		
Frequency range	5...65 MHz	
Return loss	18 dB	
Gain	14 / -0,8 dB	5
Flatness	± 0.5 dB	
Noise figure	4,5 dB	
Output level (DIN45004B)	122 dBuV	
General		
Supply voltage	100...240 VAC	
Power consumption	3.5 W	
Input / Output connectors	F- f	
Dimensions	155 x 88 x 32 mm	
Weight	0.35 kg	
Operating temp	-40...+70 °C	
Class of enclosure	IP 21	
EMC	EN50083-2	

Notes

- 1) Typical gain value at 1000 MHz.
- 2) Typical value at 85...1000 MHz
- 3) Typical value for 4.43 MHz band at 111....1000 MHz
- 4) According to EN50083-3. All results are typical values in room temperature, which can be used in system calculations
- 5) Active (RA1151) / passive (RA1150).

Block diagram

