

MA1012R SPECIAL AMPLIFIER FOR BANDWIDTH EXTENSION



- Gain extender function in the network
- Use in case of frequency range modification
- GaAs MMIC amplifier
- High output level, low power consumption
- Pluggable diplex filter, passive return path
- Input level and TILT setting modules
- Remote powered switching power supply
- Outdoor aluminium casting case

TECHNICAL SPECIFICATIONS

RF parameters

Amplifier type	GaAs MMIC
Forward path bandwidth [MHz]	47-1000 or 85-1000 or 105-1000
Return path bandwidth [MHz]	5-30 or 5-65 or 5-85
Diplex filter type [MHz]	plug-in 30/47, 65/85, 85/105
Forward path gain [dB]	10
Flatness [dB]	±0.75
Maximum output level (EN60728, 42ch., flat, CTB, CSO ≤-60dB) [dBμV]	100
CTB [dB]	-82 ⁽¹⁾
CXM [dB]	-74 ⁽¹⁾
CSO [dB]	-80 ⁽¹⁾
Manual level setup [dB]	plug-in (Comtech module)
Manual TILT setup [dB]	plug-in (Comtech module)
TILT frequency [MHz]	606, 750, 862, 1000
Noise figure [dB]	5
Testpoint (output) [dB]	-30±1
Return loss (40MHz -1.5dB/octave) [dB]	16
Return path gain [dB]	-3
Connecting impedance [Ω]	75
Screening factor [dB]	75

General parameters

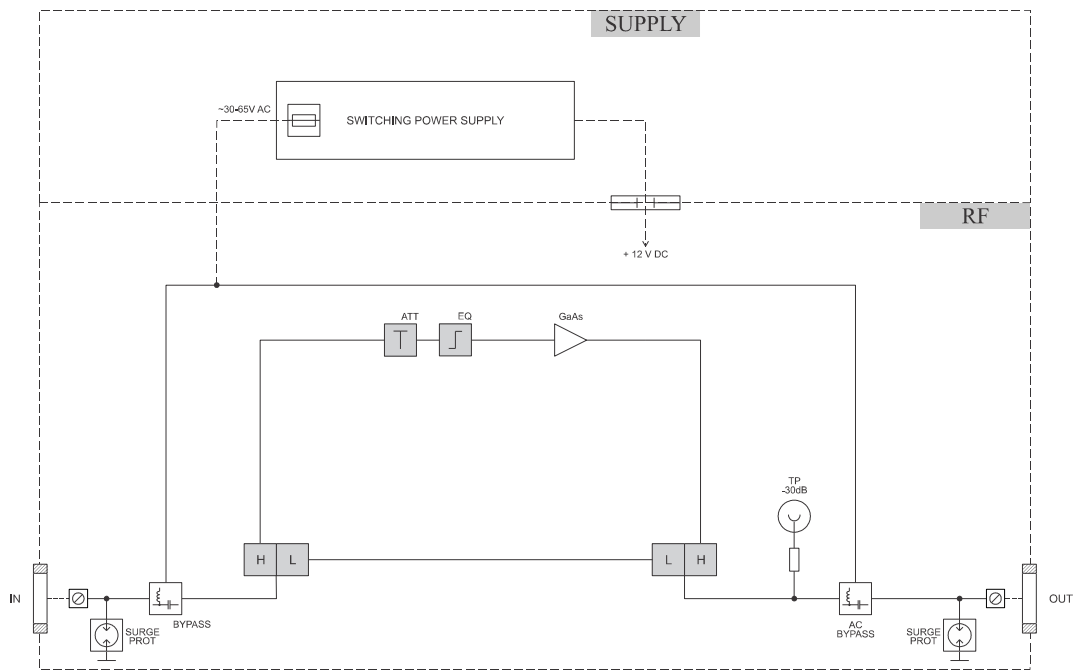
Max. power consumption [W]	3
Power supply voltage [VAC]	~ 30...65 □ 35...90
Class of electric shock protection	III.
Max. current feed-through [A]	10
Hum modulation [dB]	70

Specifications are subject to change without notice!

Degree of protection	IP 65
Tempertature range [°C]	-40...+60
Connector type	5/8"
Dimensions [mm]	140x160x100
Weight [kg]	1.0

(1) 90dBμV @ 1GHz, 3dB tilt; 77 analog ch. + digital channels - 6dBc

BLOCK DIAGRAM



ORDERING INFORMATION

M A 1 0 1 2 R - X X



Type of diplex filter	
30	30/47MHz diplex filter
65	65/85MHz diplex filter
85	85/105MHz diplex filter

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