



Amplifier MTV-50-5000

MTS-No.: R65.90.0005

Short description

This low-noise broadband preamplifier has an excellent large signal behaviour and is suitable for many applications like e.g. as preamplifier for scanner, receiver or for improving the sensitivity of measuring systems. With a linear output power up to 20 dBm it can be used advantageously as a small-power amplifier.

Also a bias tee is available as accessories.



Technical data

1 RF-specifications:

1.1 Impedance	50 Ω												
1.2 Frequency range	50 MHz - 5 GHz												
1.3 Input power	100 mW max.												
1.4 Gain / noise figure typ.	<table border="0"> <tr> <td>200 MHz</td> <td>20 dB</td> <td>1,9 dB</td> </tr> <tr> <td>500 MHz</td> <td>25 dB</td> <td>2,0 dB</td> </tr> <tr> <td>1000 MHz</td> <td>23 dB</td> <td>2,0 dB</td> </tr> <tr> <td>3000 MHz</td> <td>16 dB</td> <td>2,8 dB</td> </tr> </table>	200 MHz	20 dB	1,9 dB	500 MHz	25 dB	2,0 dB	1000 MHz	23 dB	2,0 dB	3000 MHz	16 dB	2,8 dB
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1.5 Output power	20 dBm max.												
1.6 IP3	>30 dBm												

2 Connectors:

2.1 RF input	N male
2.2 RF output	N female
2.3 Voltage / power connector	PL female

3 General specifications:

3.1 Internal voltage	10-20 V DC, internally stabilised
3.2 Power consumption	65 mA max. at 12 V
3.3 DC-feed	Directly or over coax cable
3.4 Operating temperature	+10 °C to +60 °C max.
3.5 Dimensions (without connections, without aluminium bracket)	Approx. 150 x 80 x 120 mm (LxWxH)

3.6 Case style	Weatherproof cabinet with clamp for mast mounting (hot-dip galvanised, all screws and nuts stainless steel)
3.7 Max. pole diameter	58 mm
3.8 Weight	0,5 kg

4 Delivered parts:

MTV-50-5000
Mast holder
CD-ROM with short description

5 Comments:

Warranty	12 months
RoHS compliant	Yes

6 Recommended accessories:

Measurement cable assemblies
Antennas
Bias tee MTV-50-5000-FSW

7 Bias tee MTV-50-5000 FSW:

Without power supply
Connectors: 2x N male, 1x DC
Cable 2pole for DC-injection