

Amplifier module MKV-626-5441

MTS-No.: 54.01.0130-01

Short description

This amplifier has been developed by MTS to amplify signals in the measurement technology. In combination with an adjustable attenuator the amplifier is controllable by IEEE488- or RS-232-interface. Also an application in a 19" unit with a power supply and other components is available on request.



Picture similar!

Technical data:

1 RF-specifications:

| | |
|----------------------|--|
| 1.1 Impedance | 50 Ω nominal |
| 1.2 Frequency range | 50 MHz - 1000 MHz |
| 1.3 Input power | 100 mW / +20 dBm max. |
| 1.4 Gain | 8,5 dB min., 10 dB typ. |
| 1.5 Gain linearity | $\pm 1,5$ dB max., ± 1 dB typ. |
| 1.6 1 dB-Compression | >29 dBm, >29,5 dBm at 100 - 700 MHz |
| 1.7 ICP3 | 28 dBm min. (@ 2x 17 dBm; $\Delta f = 1$ MHz) |
| 1.8 ICP2 | 45 dBm min. (@ 2x 17 dBm; $\Delta f = 1$ MHz) |
| 1.9 Noise figure | 5 dB max. |
| 1.10 VSWR In | 1,8 : 1 max., 1,4 : 1 max. at 300 -1000 MHz |
| 1.11 VSWR Out | 2,1 : 1 max., 1,6 : 1 max. at 300 – 1000 MHz |
| 1.12 Isolation | 16,5 dB min. |

2 Connections:

| | |
|-----------------------|--|
| 2.1 RF in- and output | SMA female |
| 2.2 Voltage | 12 V DC-feedthrough filter and grounding pin |

3 General specifications:

| | |
|----------------------|-------------------|
| 3.1 Internal voltage | 12 V DC ± 5 % |
|----------------------|-------------------|

| | |
|--|---|
| 3.2 Power consumption | 600 mA max., 500 mA typ. |
| 3.3 Operating temperature | -10 °C to +40 °C |
| 3.4 Storage temperature | -20 °C to +100 °C |
| 3.5 Reference temperature for specifications | +25 °C |
| 3.6 Cooling | Without heat sink, power must be dissipated, max. bottom plate temperature +65 °C |
| 3.7 Dimensions (without connections) | 64 mm x 22 mm x 34,8 mm (LxWxH) |
| 3.8 Case style | Milled aluminium enclosure |
| 3.9 Colour | Yellow chromated |
| 3.10 Weight | Approx. 0,1 kg |

4 Delivered parts:

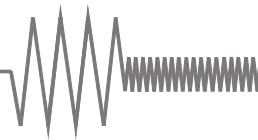
MKV-626-5441

5 Comments:

| | |
|----------------|-----------|
| Warranty | 12 months |
| RoHS-compliant | No |

6 Recommended accessories:

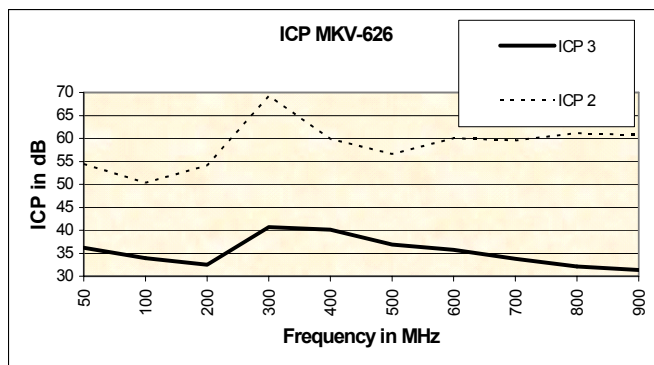
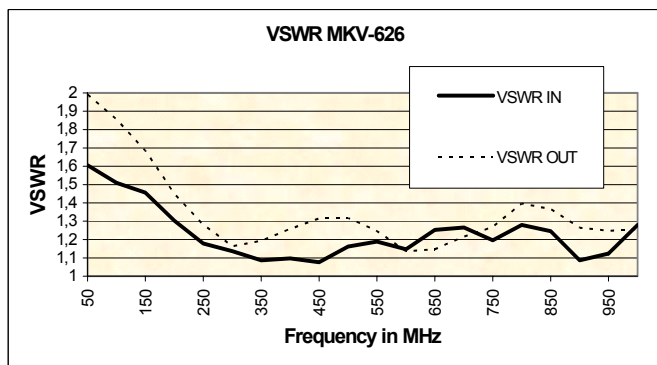
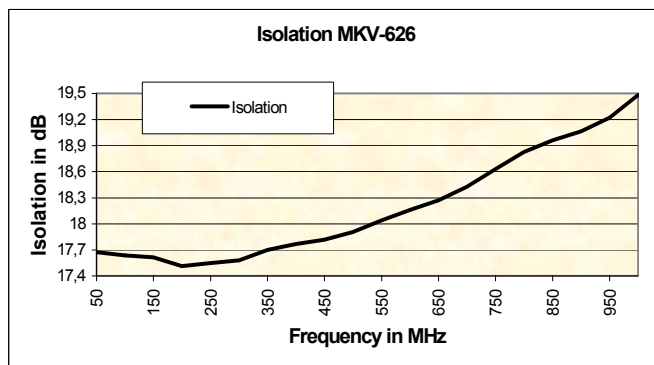
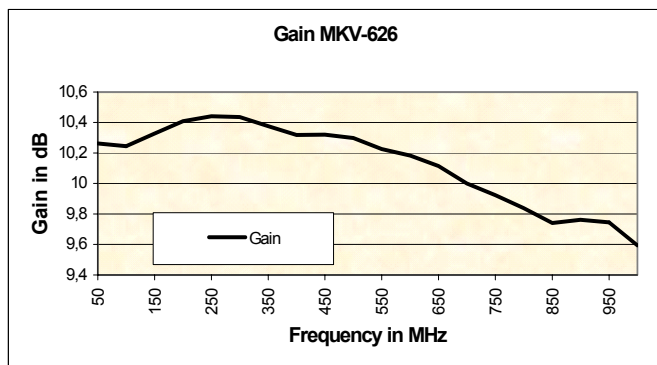
RF-cables
Bias tees
Heat sinks



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Typical characteristic



Typical characteristic at +25°C environmental temperature with sufficient cooling.
(ICP measured at 2x 17 dBm input power, at a signal distance of 1 MHz)

Drawing

