



## Amplifier module MLV-647-0976-03

MTS-No.: 54.02.0031-01

### 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
1.2 Frequency range	1 MHz - 1000 MHz
1.3 Input power	+7 dBm max.
1.4 Output power (1 dB GPC)	-750 MHz: 36 dBm / 4 W min.; 37 dBm / 5 W typ. -1000 MHz: 35 dBm / 3 W min.
1.5 Gain	35 dB min.
1.6 Gain linearity	±2,5 dB
1.7 ICP3	40 dBm min. (@ 2x +20 dBm; Δf = 1 MHz)
1.8 Noise figure	6 dB typ., 7 dB max.
1.9 VSWR In	2,6 : 1 max.
1.10 Operating class	A, CW
1.11 Harmonics 2. order	-20 dBc min.
1.12 Harmonics 3. order	-18 dBc min.

#### 2 Connections:

2.1 RF input	SMA female
2.2 RF output	SMA female
2.3 Voltage	28 V DC-feedthrough filter and grounding pin

#### 3 General specifications:

3.1 Internal voltage	28 V DC ± 5 %
3.2 Power consumption	2 A max.

3.3 Operating temperature	0 °C to +40 °C
3.4 Storage temperature	-20 °C to +70 °C
3.5 Reference temperature for specifications	+25 °C
3.6 Water and dust protect	IP62 to DIN 40050
3.7 Cooling	Without heat sink, power must be dissipated, max. bottom plate temperature +55 °C
3.8 Dimensions (without connections)	130 mm x 59 mm x 34 mm (LxWxH)
3.9 Case style	Milled aluminium enclosure
3.10 Colour	Yellow chromated
3.11 Weight	Approx. 0,2 kg

#### 4 Delivered parts:

MLV-647-0976-03

#### 5 Comments:

Warranty	12 months
RoHS-compliant	No

#### 6 Recommended accessories:

RF-cables  
Bias tees  
Heat sinks