

**Ka Band Connectorised Amplifier: 24 – 30 GHz**

**MAAMML0016  
V4**

**Features**

- High Reliability
- Weight and space saving design
- Built-in power supply protection
- Field Replaceable K Connectors
- Space Qualified version available

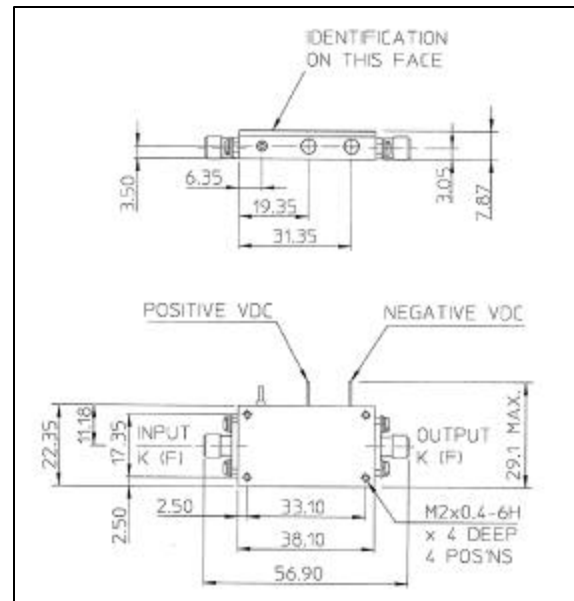
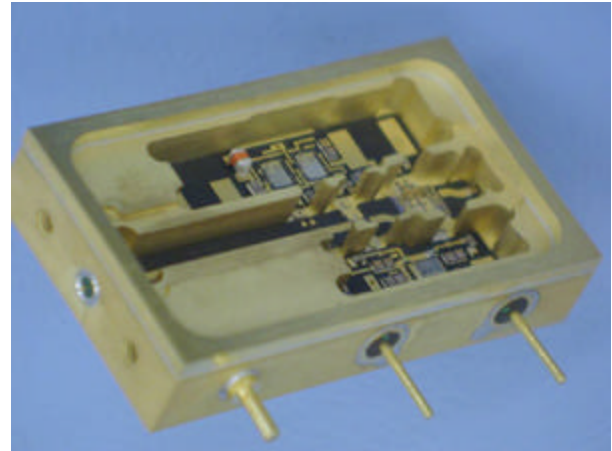
**Description**

The MAAMML0016 is a high reliability Ka band connectorised amplifier. This weight and space saving design has been realised by utilising the latest advances in housing materials. Additionally, built-in circuitry ensures that power supply sequencing can be in any order, for both power-up and power down.

Alternative frequency ranges, gain, output powers and supply rail configurations are available. The MAAMML0016 is also available as a space qualified version. Please contact the factory for details.

**Mechanical**

This device is supplied with field replaceable 'K' connectors. It is hermetically sealed, with a gold-plated finish to MIL-G-45204.



**Specification at +25 °C**

(Applies over the frequency range @ +25 °C, output and input load impedance of 50 ohms. Unless otherwise stated limits & conditions are indicated values.)

Parameter	Value	Units
Frequency	24-30	GHz
Operating Temperature T <sub>OP</sub>	+0 ~ +50	°C
Small signal gain @ +25°C	31	dB
Pk-pk Gain variation over T <sub>OP</sub>	7	dB
Passband flatness	4	dB pk-pk
P1dB (Output)	+25	dBm
Noise Figure	11	dB
Input VSWR	2:1	Ratio
Output VSWR	2:1	Ratio
<i>DC Supply Positive Rail</i>		
Supply Voltage	+7	V
Current consumption @ P1dB	750	mA
Current consumption @ P3dB	1000	mA
<i>DC Supply Negative Rail</i>		
Supply Voltage	-6.5	V
Current consumption	20	mA