

Ka Band Connectorised Amplifier: 30 – 35 GHz

MAAMML0017
V4

Features

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

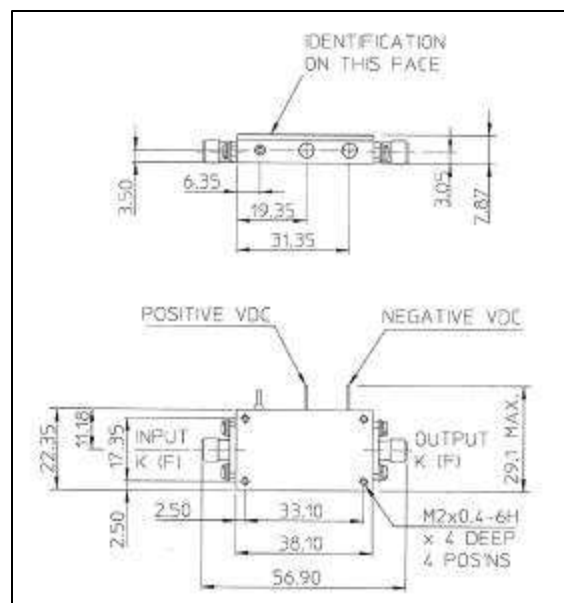
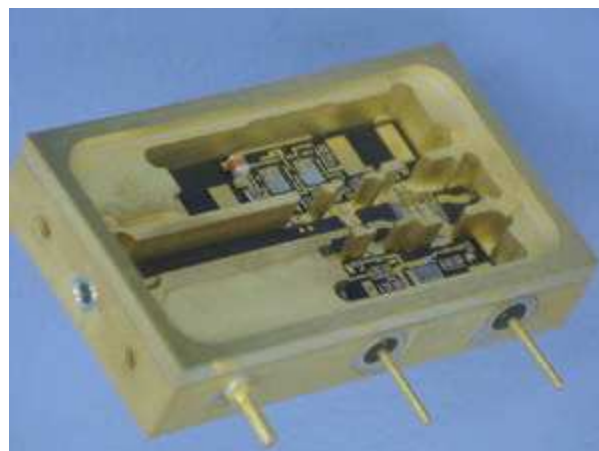
Description

The MAAMML0017 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 MAAMML0017 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.



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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	30-35	GHz
Operating Temperature T _{OP}	+0 ~ +50	°C
Small signal gain @ +25°C	31	dB
Pk-pk Gain variation over T _{OP}	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