tyco

Electronics

Variable Gain Control, X Band Connectorised Amplifier: 8 – 12 GHz

Features

- High Reliability
- Weight and space saving design
- Field Replaceable SMA Connectors
- Monotonic Gain Control
- >= 28dB Gain control
- < 4.5us settled gain switching time.
- Space Qualified version available

Description

The MAAMML0018 is a high reliability X band variable gain amplifier. This weight and space saving design has been realised by utilising the latest advances in housing materials. A variable attenuator is followed by an X band amplifier. This allows total unit gain to be adjustable over a \geq 28dB range, from an applied control voltage.

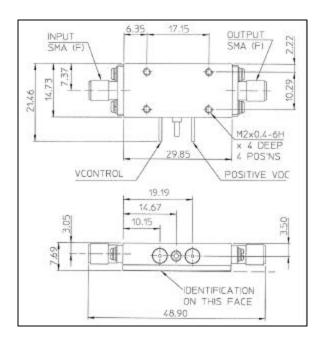
Alternative frequency ranges, gain, output powers and supply rail configurations are available.

The MAAMML0018 is also available as a space qualified version. Please contact the factory for details.



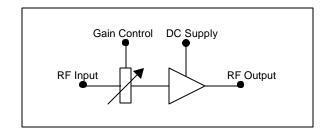
Mechanical

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



Functional Block Diagram

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• North America Tel: 800.366.2266 / Fax: 978.366.2266

- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

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MAAMML0018

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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.)

Value	Units
8-12	GHz
+0 ~ +60	<u>ى</u>
0 - 5	V
30	mA
>+14	dB
< -14	dB
3	dB pk-pk
+16	dBm
6	dB
2:1	Ratio
1.7:1	Ratio
+8	V
120	mA
	$8-12 \\ +0 ~ +60 \\ 0 - 5 \\ 30 \\ >+14 \\ < -14 \\ 3 \\ +16 \\ 6 \\ 2:1 \\ 1.7:1 \\ +8 \\ $

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