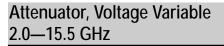
MAAV-008988-PKG003



Features

- 35 dBm Input IP3
- 4.5 dB insertion Loss
- 31 dB Attenuation Range
- 12 dB Return Losses
- 3 mm, 16 Lead QFN Package
- RoHS Compliant
- MSL 1

1

Description

The MAAV-008988-PKG003 is a broadband Voltage Variable Attenuator for applications requiring high dynamic range and linearity. This VVA is unidirectional. The designated input must be used to achieve the P1dB and IP3 performance over the attenuation range.

The RoHS compliant QFN package is compatible with 260° C reflow temperatures and has an MSL 1 rating. The MTTF is greater than 1,000,000 hours over the full operating temperature range of -40 to $+85^{\circ}$ C.

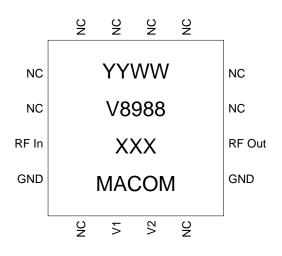
Electrical Specifications: $Z_0 = 50\Omega$

Parameter	Units	Typical
Bandwidth	GHz	2.0-15.5
Insertion Loss	dB	4.5
Attenuation Range	dB	31
Input Return Loss	dB	12
Output Return Loss	dB	12
Input IP3	dBm	35
Input P1dB	dBm	28
Control Voltages	V	0 to -3

Minimum attenuation at V1=0V and V2=-3V Maximum attenuation at V1=-3V and V2=0V

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Product Drawing



Absolute Maximum Ratings

Parameter	Absolute Maximum	
Storage Temperature	-55⁰C to +150⁰C	
Case Temperature	-40°C to +85°C	
Junction Temperature	+150ºC	
Input Power	+32 dBm	
Control Voltages	0 to –6V	
ESD Level (HBM)	250V	

Ordering Information

Part Number	Package	
MAAV-008988-PKG003	3 mm, 16 Lead QFN	
MAAV-008988-SMB003	Evaluation Sample Board	
MAAV-008988-DIE000	Bare Die	

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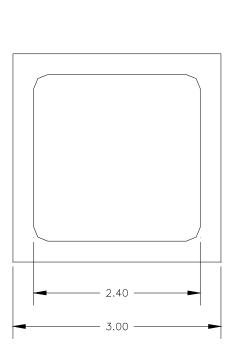
MAAV-008988-PKG003

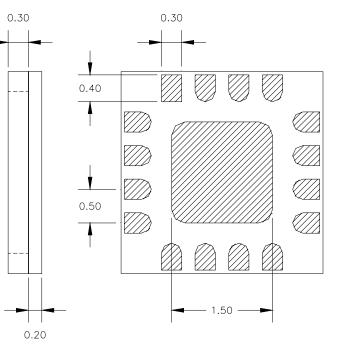


Attenuator, Voltage Variable 2.0—15.5 GHz

M/A-COM Products Advanced: Rev. A

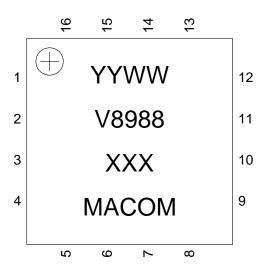
Outline Drawing





Dimensions are in mm

Pin Designations



Pin	Function	Pin	Function
1	NC	9	GND
2	NC	10	RF Out
3	RF In	11	NC
4	GND	12	NC
5	NC	13	NC
6	V1	14	NC
7	V2	15	NC
8	NC	16	NC

Exposed pad on bottom is ground

2

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