

# Miniature Open Substrate Mixers

## 2902 Series

### Features

- Triple-Balanced 4-18 GHz
- Miniature Drop-In Carrier
- High Reliability

### Description

Miniature broadband triple-balanced mixers on an open substrate configuration for direct integration into microstrip circuitry. Rugged construction designed for use in high-rel military system environments. Contact factory for mounting details.

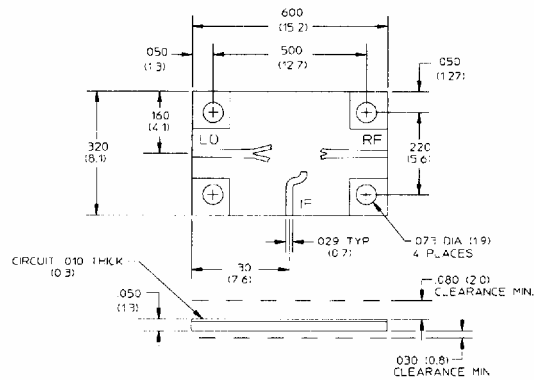
### Environmental

These devices are designed to meet the following conditions:

Test	MIL-STD	Method	Cond
Mechanical Shock	202	213B	C
Constant Acceleration	883	2001	A
Thermal Cycle	883	1010	B
Vibration, HF	202	204D	D

### Maximum Ratings

Parameter	LO Drive Level	
	Low Medium (L, M Suffix)	High (H Suffix)
Operating Temp. Max.	-55°C to +100°C	-55°C to +100°C
Storage Temp. Max.	-65°C to +125°C	-65°C to +125°C
RF Input Power Max.	100 mW	200 mW



Specifications Subject to Change Without Notice.

M/A-COM Inc. ■ 1011 Pawtucket Boulevard, Lowell, MA 01853 USA

■ Telephone: 800-366-2266

## Specifications\* 25° C

RF/LO Frequency Range (GHz)	L-R Isolation (dB min.)	L-I Isolation (dB min.)	3 dB IF Bandwidth (GHz min.)	LO Range (dBm) Min./Max.	Conversion Loss (dB) Max./Typ.	Input 1dB Compression Pt. (dBm Min.)	Input 3 <sup>rd</sup> Order Intercept Pt. (dBm Min.)	Part Number
				+7/+11	10.0/7.0	+2	+12	2902-10-DBL
2.0-18.0	20	15	0.5-8.0	+11/+15	10.0/7.0	+5	+15	2902-10-DBM
				+15/+18	10.5/7.5	+8	+18	2902-10-DBH

## Notes:

1. All measurements performed in a 50 ohm system.
2. Available in phase and amplitude matched sets; consult factory for details.
3. Low-cost test fixture available. Consult factory for details.

\* Consult the factory for typical performance over frequency.

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