

Miniature Open Substrate Mixers

2902 Series

V2.00

Features

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

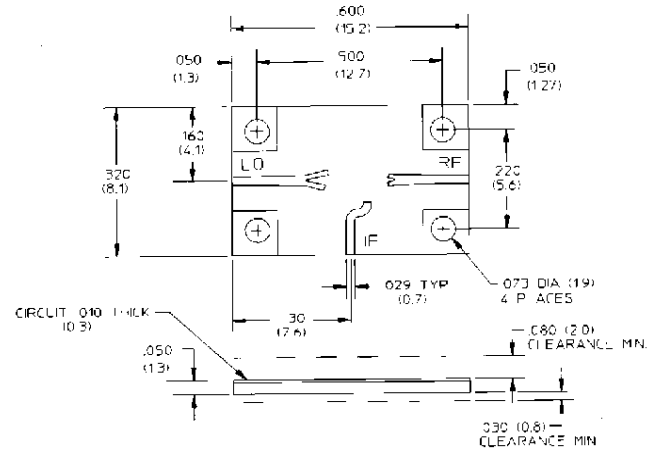
Description

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.

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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 1 dB Compression Pt. (dBm Min.)	Input 3rd Order Intercept Pt. (dBm Min.)	Part Number
2.0-18.0	20	15	0.5-8.0	+7/+11	10.0/7.0	+2	+12	2902-10-DBL
				+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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