

Double-Balanced Mixer Modules

T-74-13-01

Features

- Double-Balanced 2-18 GHz
- Small Drop-In Module
- Ruggedized Construction Techniques
- Hermetic Seal

Description

Broadband double-balanced mixers in a drop-in module configuration for direct integration into stripline or microstrip circuitry. Designed for use in high-rel military system environments.

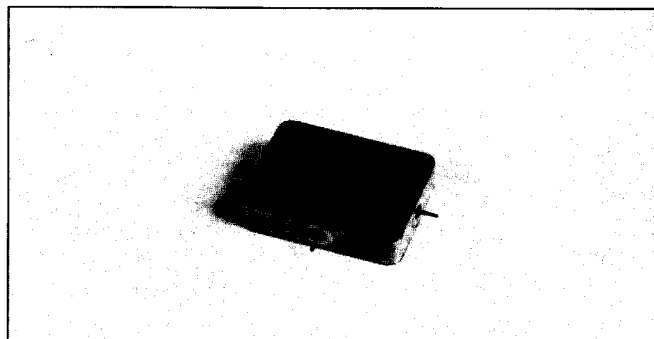
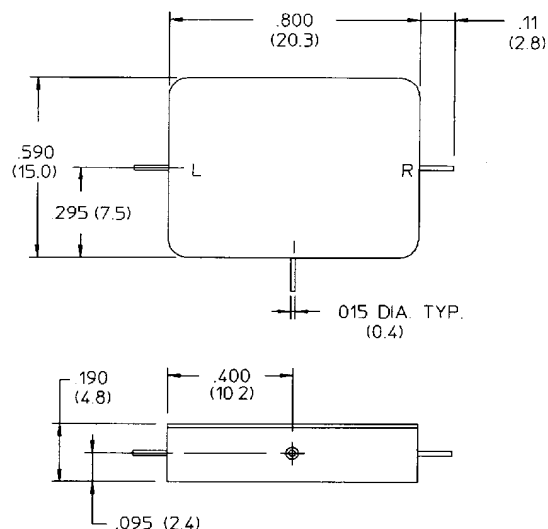
Environmental

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
Moisture Resistance	202	106E	-
Salt Spray	202	101D	A
Solvent Resistance	883	2015	-
Hermeticity	883	1014	Fine & Gross

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

**Mechanical Outline**

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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 3 rd Order Intercept Pt. (dBm Min.)	Part Number
2.0-18.0	20	15	dc-1.0	+7/+11	9.5/6.5	+2	+12	2901-06-DBL
				+11/+15	9.5/6.5	+5	+15	2901-06-DBM
				+15/+18	10.0/7.0	+8	+18	2901-06-DBH
	20	15	.01-6.0	+7/+11	10.0/7.0	+2	+12	2902-06-DBL
				+11/+15	10.0/7.0	+5	+15	2902-06-DBM
				+15/+18	10.5/7.5	+8	+18	2902-06-DBH
	20	15	1.0-9.0	+7/+11	10.0/7.0	+2	+12	2903-06-DBL
				+11/+15	10.0/7.0	+5	+15	2903-06-DBM
				+15/+18	10.5/7.5	+8	+18	2903-06-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.