Flange Mounted Double-Balanced Mixers

DM Series

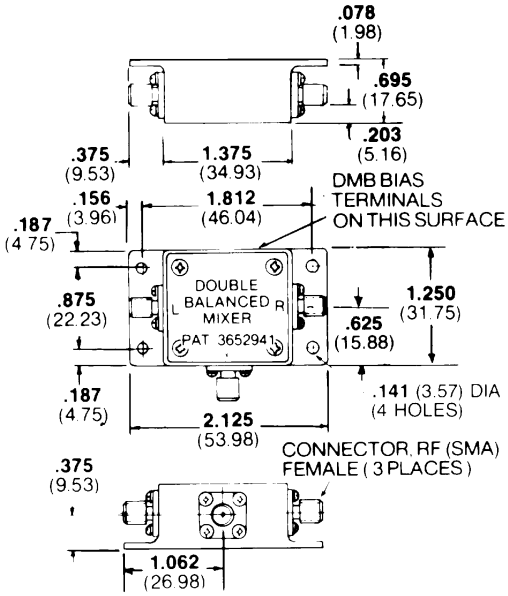
V2.00

Features

- 5.0 dB Midband Conversion Loss
- 28 dB Midband L-R Isolation

Description

This series of mixers is typically specified as down converters. They also function well as up converters, third harmonic mixers or phase detectors.



Environmental

Parameter	
Operating Temp. Max.	-55°C to +85°C
Storage Temp. Max.	-65°C to +125°C
Humidity	95% non-condensing
Vibration	7G's rms, 50 to 2000 cps, per MIL-STD-810-B, Method 514, Proced. 5

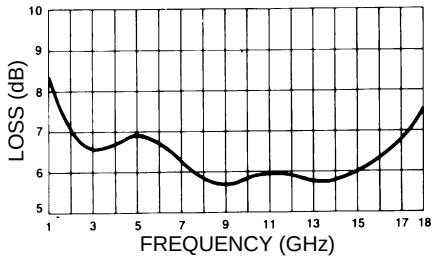
Specifications 25°C[1]

RF Frequency Range (GHz)	L-R Isolation (dB)	L-I Isolation (dB)	3dB IF Bandwidth (GHz)	LO Range (dBm) Min.\Max.	Conversion Loss (dB)[2] Typ./Max.	Input I dB Compr. Pt. (dBm)	Noise Figure SSB (dB Max.)	Part Number
1.0-18.0	22	18	dc-0.5	7/11	6.0/9.5	+3	10.0	DMI-18A

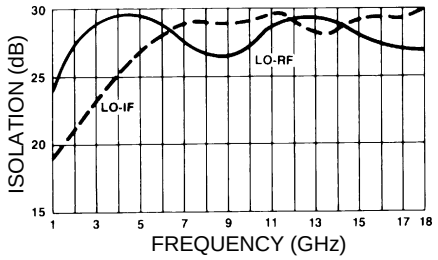
Notes:
1. Specifications apply when operated at +8 dBm available LO power with 50 ohm source and load impedance.
2. For IF frequencies of 100 MHz and RF power of -10 dBm or lower.

Typical Performance 25° DMI - 18A

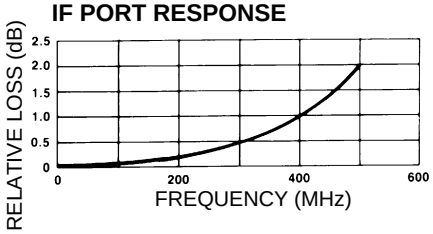
CONVERSION LOSS



ISOLATION



IF PORT RESPONSE



North America: Tel. (800) 366-2266 Fax (800) 618-8883 ■ Asia/Pacific: Tel. +81 (03) 3226-1671 Fax +81 (03) 3226-1451 ■ Europe: Tel. +44 (1344) 869 595 Fax +44 (1344) 300 020