

High-Level Double-Balanced Mixer

5 - 4000 MHz

MD-525-4

V2.00

Features

- Broadband Frequency Range
- +17 dBm Typical Third Order Intercept Point

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	RF, LO Ports	5-4000 MHz	
	IF Port	5-1900 MHz	
Conversion Loss	5-2000 MHz	9 dB Max	
	2000-4000 MHz	10 dB Max	
Isolation	LO to RF	(5-50 MHz)	20 dB Min
		(50-2000 MHz)	25 dB Min
		(200-4000 MHz)	20 dB Min
	LO to IF	(5-50 MHz)	20 dB Min
		(50-2000 MHz)	30 dB Min
		(200-4000 MHz)	25 dB Min
RF to IF	(5-50 MHz)	20 dB Min	
	(50-2000 MHz)	25 dB Min	
	(200-4000 MHz)	20 dB Min	

Operating Characteristics

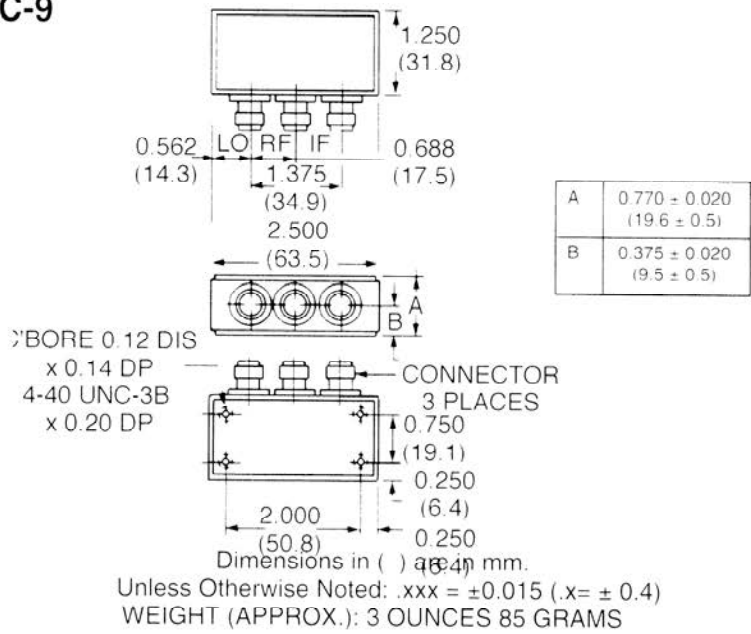
Impedance	50 Ohms Nominal	
Maximum Input	Total Power	600 mW Max @ 25°C
		Derated to 85°C @ 3.2 mW/°C
IF Port Current	50 mA Max	
DC Polarity	Negative	
DC Offset	≤ 5 mV Typical	
RF Input	1 dB Compression	+6 dBm Typical
	1 dB Desensitization	+0 dBm Typical
	SSB Noise Figure	Within 1 dB of Conversion Loss Max
Typical Two-Tone IM Ratio: (with -10 dBm input, each input, 60 MHz and 70 MHz IF)	80-430 MHz ≥ 53 dB	
Environmental	MIL-STD-883 screening available.	

* All specifications apply when operated at +10 dBm available I/O power with 50 Ohm source and load impedance.

Ordering Information

Model No.	MD-525-4 SMA	Package	Connectorized
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C-9



Typical Performance

