

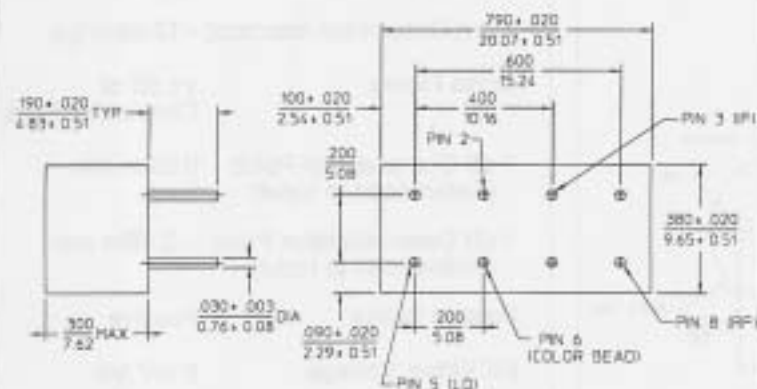
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**PRINCIPAL SPECIFICATIONS**

Model Number	RF/LO Freq., MHz	IF Freq., MHz	Conversion Loss, dB, Max.		Isolation, dB, L - R Ports		Isolation, dB, L - X Ports		Isolation, dB, R - X Ports	
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
DMS-2-50	.02 - 100	DC - 100	7.5	.02 - .10	45	.02 - 100	45	.02 - 25	30	.02 - 10
			6.5	.10 - 100	45	.02 - 100	35	25 - 100	20	10 - 100
DMS-2-250	1 - 500	DC - 500	7.0	1 - 400	40	1 - 100	35	1 - 100	30	1 - 25
			8.0	400 - 500	30	100 - 500	25	100 - 500	20	25 - 500

All specifications are as measured in a 50Ω system, at nominal LO Power, in a down converter application.

**Package Outline**



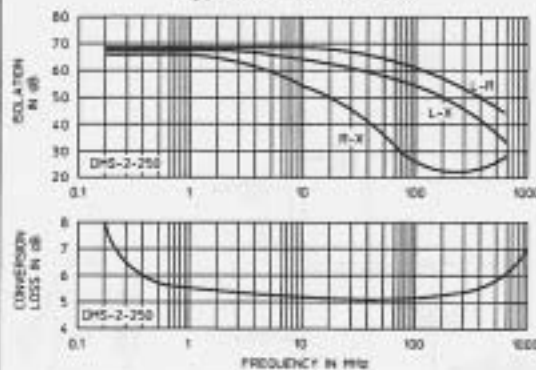
- NOTES: 1. Tolerance on 3 place decimals ±0.10(.25) except as noted.  
 2. Dimensions in inches over millimeters.  
 3. Pins 3 & 7 must be externally connected to form IF Port.  
 4. Pins 1, 2, 4 & 6 must be externally grounded.

**General Notes:**

The DMS-2 series of Double Balanced Mixers covers the frequency range of 20 kHz to 500 MHz using a four diode ring modulator configuration for general purpose applications emphasizing low cost and minimum size.

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**Typical of DMS-2 Series**



**GENERAL SPECIFICATIONS**

- Impedance: 50 Ω nom.
- Third Order Input Int: +12 dBm typ.
- Noise Figure: Within ±1 dB of Conversion Loss
- Maximum Input Power: 300 mW @ 25°C (derate linearly to 0 mW @125°C)
- LO Drive: +7 dBm nom.
- 1 dB Compress. Point: 0 dBm typ. (ref Input)
- 1 dB Desens. Level: -2 dBm typ. (ref Input)
- DC Offset Voltage: 2 mV typ.
- DC Polarity: Positive
- Weight, nominal: 0.25 oz (9 g)
- Operating Temperature: -55° to +85°C