

# Double Balanced Mixer

# Model M73T

RF Band

RF 0.8 to 2.4 GHz

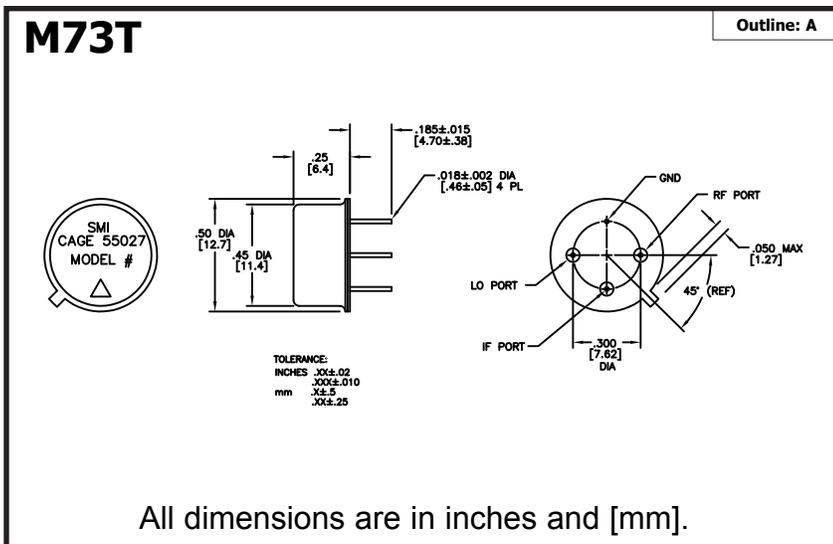
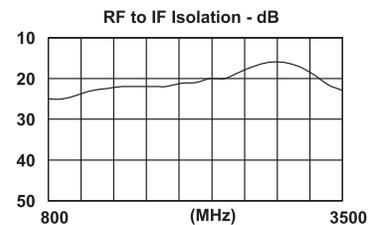
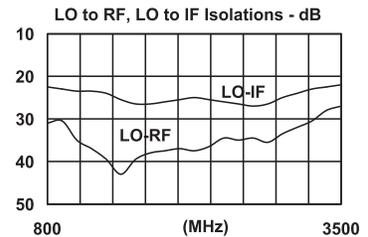
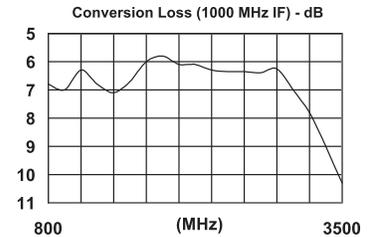
## Electrical Specifications <sup>(1)</sup>:

Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (GHz)	Min	Typical	Max
SSB Conversion loss: <sup>(2)</sup>	0.8-2.4	0.8-3.5	DC-1.5		9.0 dB	10.5 dB
<b>Isolation</b>						
<b>LO to RF:</b>		0.8-2.0		25 dB	36 dB	
<b>LO to IF:</b>		2.0-3.5		20 dB	30 dB	
		0.8-3.5		18 dB	21 dB	
<b>Input 1 dB Compression Point:</b>	0.8-2.4	0.8-3.5	DC-1.5		+0 dBm	
<b>Desensitization Point: (RF2 @ -1 dBm)</b>	0.8-2.4	0.8-3.5	DC-1.5		+1.0 dBm	
<b>Input Third Order Intercept Point:</b>	0.8-2.4	0.8-3.5	DC-1.5		+10 dBm	
<b>LO Power:</b> <sup>(3)</sup>		0.8-3.5			+7 dBm	

**Notes:**

- Specifications are guaranteed when tested as a downconverter in a 50 Ohm system at +25°C with +7dBm LO power. Specifications indicated as typical are not guaranteed.
- SSB Noise figure is nominally within ±0.5 dB of the SSB conversion loss for IF frequencies greater than 10 MHz.
- Usable LO drives are up to 2 dB below and 3 dB above nominal.

## Typical Performance at 25°C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, FL 32905 · PH (888) 553-7531 · Fax (888) 553-7532

www.SpectrumMicrowave.com · Spectrum Microwave · 2707 Black Lake Place · Philadelphia, PA 19154 · PH (215) 464-4000 · Fax (215) 464-4001

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