Double Balanced Mixer — Model M53T

RF Band — RF 10 to 1500 MHz

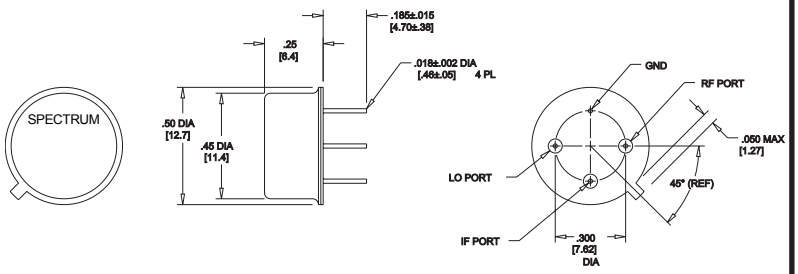
Electrical Specifications [1]:

Parameter	Conditions RF (MHz)	LO(MHz)	IF (MHz)	Specifications Min	Typical	Max
SSB Conversion loss: [2][3]	10-1500	10-1500	DC-800		7.0 dB	8.5 dB
Isolation						
LO to RF:		10-500		30 dB		
		500-900		28 dB		
		900-1500		30 dB		
LO to IF:		10-500		28 dB		
		500-1500		25 dB		
Input 1-dB Compression Point:	10-1500	10-1500	DC-800		+3.5 dBm	
Desensitization Point:	10-1500	10-1500	DC-800		+1.5 dBm	
Input Third Order Intercept Point:	10-1500	10-1500	DC-800		+13 dBm	
LO Power: [3]	10-1500	10-1500	DC-800		+7 dBm	

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

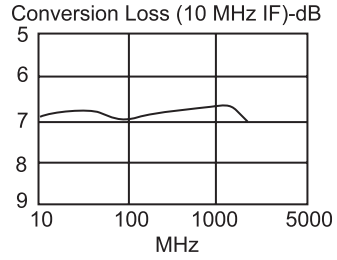
M53T

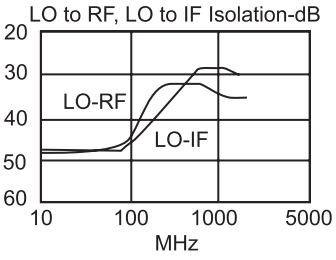
Outline: TO-8

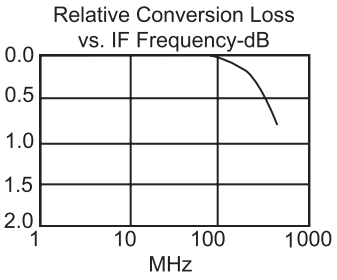


All dimensions are in inches and [mm].

Typical Performance at 25˚C







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