

Triple Balanced Mixer

Model M24T

RF Band

RF 1.0 to 3400 MHz

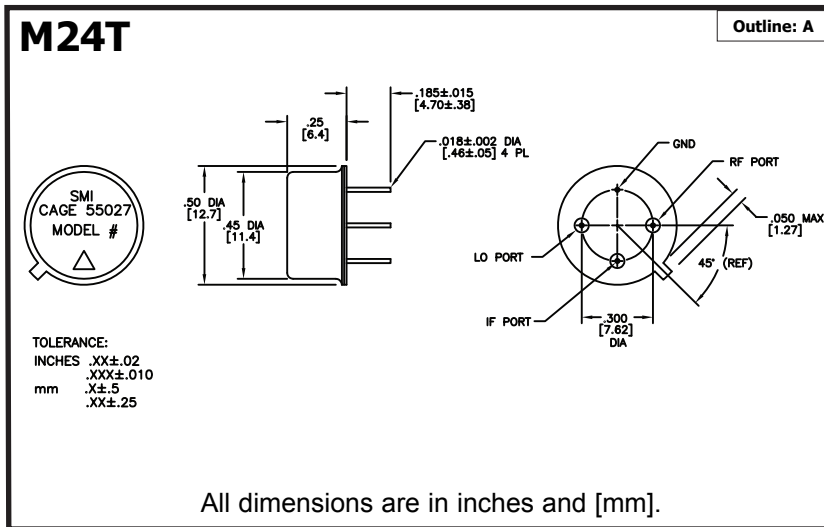
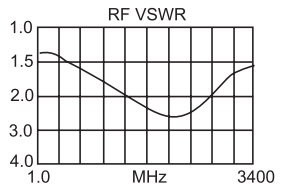
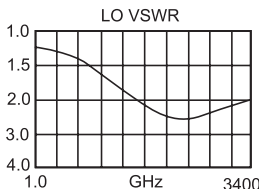
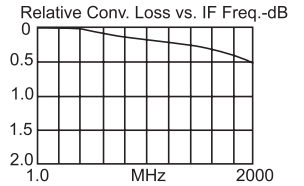
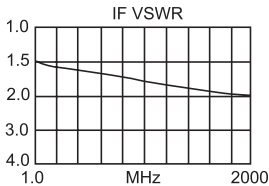
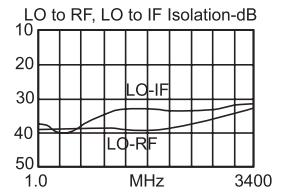
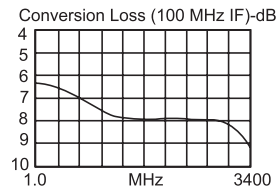
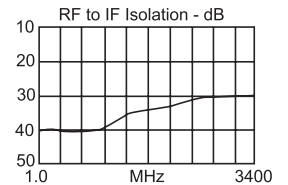
Electrical Specifications ⁽¹⁾:

Parameter	Conditions			Specifications			
	RF (MHz)	LO (MHz)	IF (MHz)	Min	Typical	Max	
SSB Conversion loss: ⁽²⁾⁽³⁾	1.0-1500	1.0-1500	1.0-1000		7.5 dB	9.5 dB	
	1.0-3400	1.0-3400	1.0-2000		8.5 dB	10.5 dB	
Isolation	LO to RF:	1.0-1500	1.0-1500	30 dB	38 dB		
		1.0-3400	1.0-3400	25 dB	35 dB		
	LO to IF:	1.0-1500	1.0-1500	30 dB	35 dB		
		1.0-3400	1.0-3400	25 dB	32 dB		
	RF to IF:	1.0-1500	1.0-1500			30 dB	
		1.0-3400	1.0-3400			30 dB	
Input 1-dB Compression Point:	1.0-3400	1.0-3400	1.0-2000		+1 dBm		
Input Third Order Intercept Point:	1.0-3400	1.0-3400	1.0-2000		+14 dBm		
LO Power: ⁽⁴⁾	1.0-3400	1.0-3400	1.0-2000		+10 dBm		

Notes:

- 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.
- Noise figure is nominally within ±0.5 dB of the SSB conversion loss for IF frequencies greater than 10 MHz.
- Conversion loss typically degrades less than ±0.5 dB at +100°C and improves less than 0.5 dB at -55°C.
- Usable LO drives are up to 2 dB below and 3 dB above nominal.

Typical Performance at 25°C



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