

Double Balanced Mixer

Model M56T

RF Band

RF 10 to 1500 MHz

Electrical Specifications ⁽¹⁾:

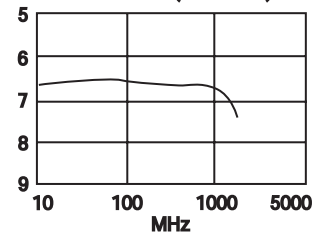
Parameter	Conditions			Specifications		
	RF (MHz)	LO (MHz)	IF (MHz)	Min	Typical	Max
SSB Conversion loss: ⁽²⁾	10-1200	10-1200	DC-100		6.5 dB	7.5 dB
	10-1500	10-1500	DC-800		7.0 dB	8.5 dB
Isolation		10-500 500-1500		30 dB 27 dB		
LO to IF:		10-600 600-1500		27 dB 20 dB		
Input 1-dB Compression Point:	10-1500	10-1500	DC-800		+5.5 dBm	
Desensitization Point:	10-1500	10-1500	DC-800		+3.5 dBm	
Input Third Order Intercept Point:	10-1500	10-1500	DC-800		+16 dBm	
LO Power: ⁽³⁾	10-1500	10-1500	DC-800		+13 dBm	

Notes:

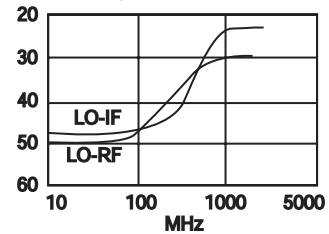
- Specifications are guaranteed when tested as a downconverter in a 50 Ohm system at +25°C with the nominal LO power. Specifications indicated as typical are not guaranteed.
- SSB Noise figure is nominally within ±0.5 dB of the SSB conversion loss for IF frequencies greater than 10 MHz.
- Usable LO drives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

Typical Performance at 25°C

Conversion Loss (10 MHz IF) – dB



LO to RF, LO to IF Isolation – dB



Relative Conversion Loss vs. IF Frequency - dB

