

Double Balanced Mixer RF Band

Model M57
RF 10 to 1500 MHz

Electrical Specifications ⁽¹⁾:

Parameter	Conditions			Specifications		
	RF(MHz)	LO(MHz)	IF(MHz)	Min	Typical	Max
SSB Conversion loss: ⁽²⁾	10-1000 10-1500	10-1000 10-1500	DC-500 DC-1000		7.5 dB 8.5 dB	8.0 dB 9.5 dB
Isolation						
LO to RF:		10-500 500-1500		35 dB 30 dB		
LO to IF:		10-500 500-1500		30 dB 25 dB		
Input 1-dB Compression Point:	10-1500	10-1500	DC-1000		+17 dBm	
Desensitization Point:	10-1500	10-1500	DC-1000		+15 dBm	
Input Third Order Intercept Point:	10-1500	10-1500	DC-1000		+27 dBm	
LO Power: ⁽³⁾	10-1500	10-1500	DC-1000		+23 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

