

# Double Balanced Mixer RF Band

# Model M57 RF 10 to 1500 MHz

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

Parameter	Conditions			Specifications		
	RF(MHz)	LO(MHz)	IF(MHz)	Min	Typical	Max
SSB Conversion loss: <sup>(2)</sup>	10-1000	10-1000)	DC-500		7.5 dB	8.0 dB
	10-1500	10-1500)	DC-1000		8.5 dB	9.5 dB
Isolation LO to RF:		10-500		35 dB		
		500-1500		30 dB		
LO to IF:		10-500		30 dB		
		500-1500		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: <sup>(3)</sup>	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

