

# REMEC

## Triple Balanced Mixer Ultra-Broadband

RF 2.0-18.0 GHz  
LO 2.0-18.0 GHz  
IF 10-4000 MHz

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

Parameter	Conditions			Specifications		
	RF(GHz)	LO(GHz)	IF(MHz)	Min	Typical	Max
SSB Conversion loss: <sup>(2) (3)</sup>	2.0-18.0	2.0-18.0	10-4000		7.3 dB	9.5 dB
Isolation		LO to RF:	2.0-4.0	15 dB	20 dB	
			4.0-18.0	20 dB	27 dB	
			2.0-18.0	20 dB	28 dB	
	RF to IF:	2.0-18.0			22 dB	
Input 1-dB Compression Point:	2.0-18.0	2.0-18.0	10-4000		+5 dBm +8 dBm +12 dBm +15 dBm	MM94 MM96 MM97 MM98
Input Third Order Intercept Point:	2.0-18.0	2.0-18.0	10-4000		+14 dBm +17 dBm +21 dBm +24 dBm	MM94 MM96 MM97 MM98
LO Power: <sup>(4)</sup>	2.0-18.0	2.0-18.0	10-4000		+10 dBm +13 dBm +17 dBm +21 dBm	MM94 MM96 MM97 MM98

### MM9xxL-1

#### LO Power

4 = +10 dBm  
6 = +13 dBm  
7 = +17 dBm  
8 = +21 dBm

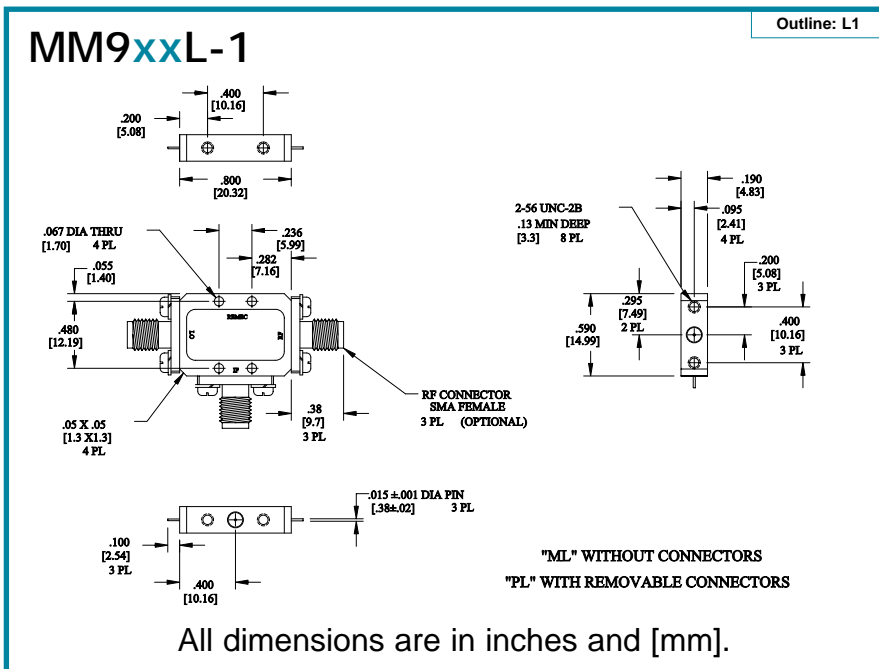
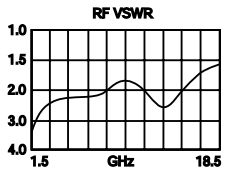
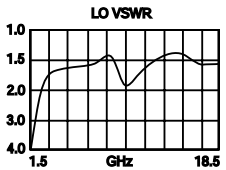
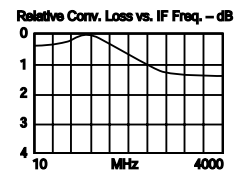
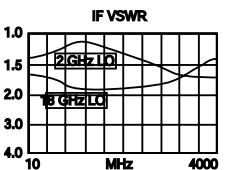
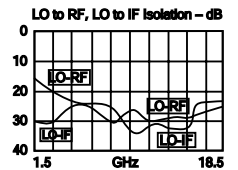
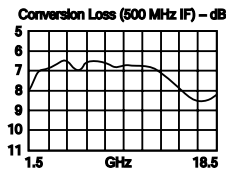
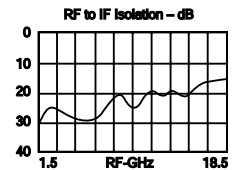
#### Drop-In Module or With SMA(F) Connectors

M = Module  
P = With Connectors

#### Notes:

- Specifications are guaranteed when tested as a downconverter in a 50 Ohm system from -55°C to +100°C with the nominal LO power. Specifications indicated as typical are not guaranteed.
- Noise figure is typically within ±0.5 dB of conversion loss.
- 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



Specifications subject to change without notice.