

# REMEC

## Double Balanced Mixer Multi-Octave Band

RF 6.0-18.0 GHz  
LO 4.0-18.0 GHz  
IF DC-4500 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>	6.0-18.0	5.0-18.0	DC-1000		5.5 dB	7.5 dB
	6.0-18.0	4.0-18.0	DC-3000		6.0 dB	8.0 dB
	6.0-18.0	4.0-18.0	DC-4000		6.5 dB	8.5 dB
	6.0-18.0	4.0-18.0	DC-4500		7.0 dB	9.0 dB
Isolation	6.0-18.0	4.0-14.0		25 dB	40 dB	
		14.0-18.0		22 dB	35 dB	
LO to RF:		4.0-18.0		20 dB	24 dB	
LO to IF:		4.0-18.0			22 dB	
RF to IF:						
Input 1-dB Compression Point:	6.0-18.0	4.0-18.0	DC-4500		+2 dBm +5 dBm +8 dBm +12 dBm	MM93 MM94 MM96 MM97
Input Third Order Intercept Point:	6.0-18.0	4.0-18.0	DC-4500		+11 dBm +14 dBm +18 dBm +23 dBm	MM93 MM94 MM96 MM97
LO Power: <sup>(4)</sup>	6.0-18.0	4.0-18.0	DC-4500		+7 dBm +10 dBm +14 dBm +19 dBm	MM93 MM94 MM96 MM97

## MM9xxN-11

### LO Power

3 = +7 dBm  
4 = +10 dBm  
6 = +14 dBm  
7 = +19 dBm

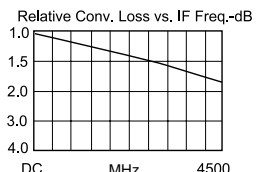
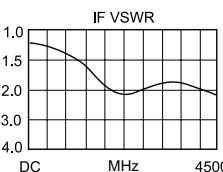
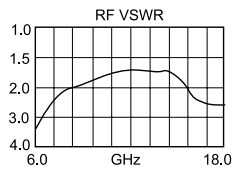
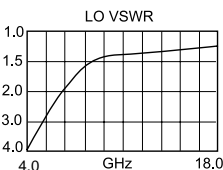
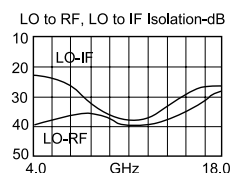
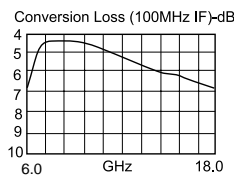
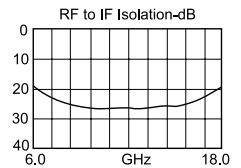
### Drop-In Module or With SMA(F) Connectors

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  $\pm 0.5$  dB of 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



## MM9xxN-11

Outline: N

"MN" WITHOUT CONNECTORS  
"PN" WITH REMOVABLE CONNECTORS

All dimensions are in inches and [mm].

Specifications subject to change without notice.