

# Triple Balanced Mixer

Ultra Broadband

RF 2.0 to 18.0 GHz

Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max
<b>SSB Conversion loss:</b> (2) (3)	2.0-18.0	2.0-18.0	10-4000		7.3 dB	9.5 dB
<b>Isolation</b> <b>LO to RF:</b>  <b>LO to IF:</b> <b>RF to IF:</b>	2.0-18.0	2.0-4.0 4.0-18.0 2.0-18.0		13 dB 20 dB 20 dB	20 dB 27 dB 28 dB 22 dB	
<b>Input 1-dB Compression Point</b>	2.0-18.0	2.0-18.0	10-4000		+2 dBm +5 dBm +8 dBm +12 dBm +15 dBm	MM93 MM94 MM96 MM97 MM98
<b>Input Third Order Intercept Point:</b>	2.0-18.0	2.0-18.0	10-4000		+11 dBm +14 dBm +17 dBm +21 dBm +24 dBm	MM93 MM94 MM96 MM97 MM98
<b>LO Power:</b> (4)	2.0-18.0	2.0-18.0	10-4000		+7 dBm +10 dBm +13 dBm +17 dBm +21 dBm	MM93 MM94 MM96 MM97 MM98

## Model MM9xxL-1

**LO Power**  
 3 = +7 dBm  
 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 11±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

