

Double Balanced Mixer

Model MM9xxG-30

Multi-Octave Band

RF 6.0 to 18.0 GHz

Electrical Specifications:⁽¹⁾

Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max
SSB Conversion loss: ⁽²⁾ ⁽³⁾	6.0-18.0	4.0-18.0	DC-2000		5.5 dB	7.5 dB
	6.0-18.0	4.0-18.0	DC-3000		6.0 dB	8.0 dB
	7.0-16.0	7.0-18.0	DC-4000		6.2 dB	8.0 dB
	6.0-18.0	4.0-18.0	DC-4000		6.5 dB	8.5 dB
Isolation						
	LO to RF:		4.0-16.0	25 dB	40 dB	
	LO to IF: RF to IF:	6.0-18.0	4.0-18.0	20 dB	38 dB	
Input 1 dB Compression Point:						
	6.0-18.0	4.0-18.0	DC-4000		+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-4000		+11 dBm +14 dBm +18 dBm +23 dBm	MM93 MM94 MM96 MM97
LO Power: ⁽⁴⁾						
	6.0-18.0	4.0-18.0	DC-4000		+7 dBm +10 dBm +14 dBm +19 dBm	MM93 MM94 MM96 MM97

Model MM9xxG-30

LO Power ←

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

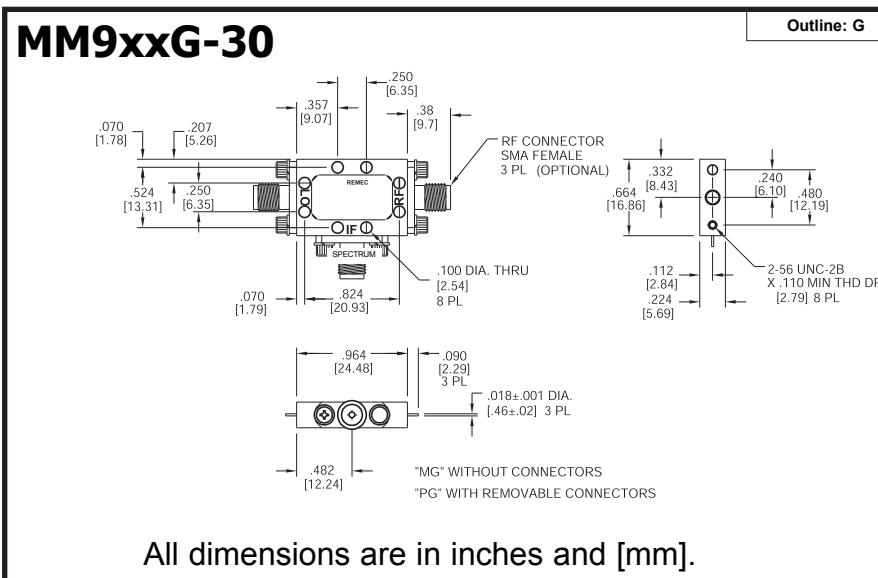
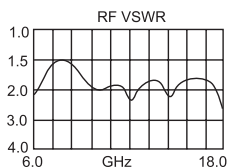
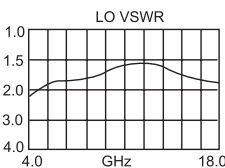
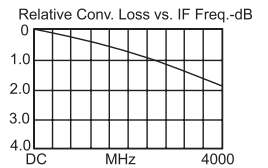
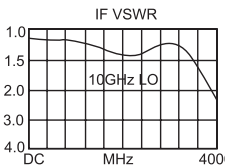
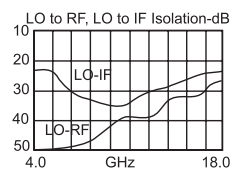
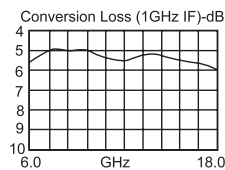
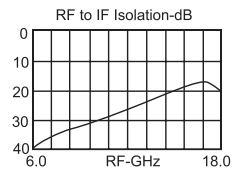
→ **Drop-In Module or With SMA(F) Connectors**

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 ±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



All dimensions are in inches and [mm].

