

Double Balanced Mixer

Model MM9xxG-6

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	6.0-18.0	DC-1000		6.5 dB	7.5 dB
	6.0-18.0	6.0-18.0	DC-2500		7.0 dB	8.0 dB
Isolation						
	LO to RF:	6.0-18.0		25 dB	30 dB	
	LO to IF:	6.0-18.0		25 dB	30 dB	
RF to IF:	6.0-18.0		18 dB	20 dB		
Input 1 dB Compression Point:	6.0-18.0	6.0-18.0	DC-2500	+1 dBm +3 dBm +7 dBm +12 dBm	MM93 MM94 MM96 MM97	
Input Third Order Intercept Point:	6.0-18.0	6.0-18.0	DC-2500	+11 dBm +13 dBm +16 dBm +23 dBm	MM93 MM94 MM96 MM97	
LO Power: ⁽⁴⁾	6.0-18.0	6.0-18.0	DC-2500	+7 dBm +10 dBm +13 dBm +19 dBm	MM93 MM94 MM96 MM97	

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LO Power ←

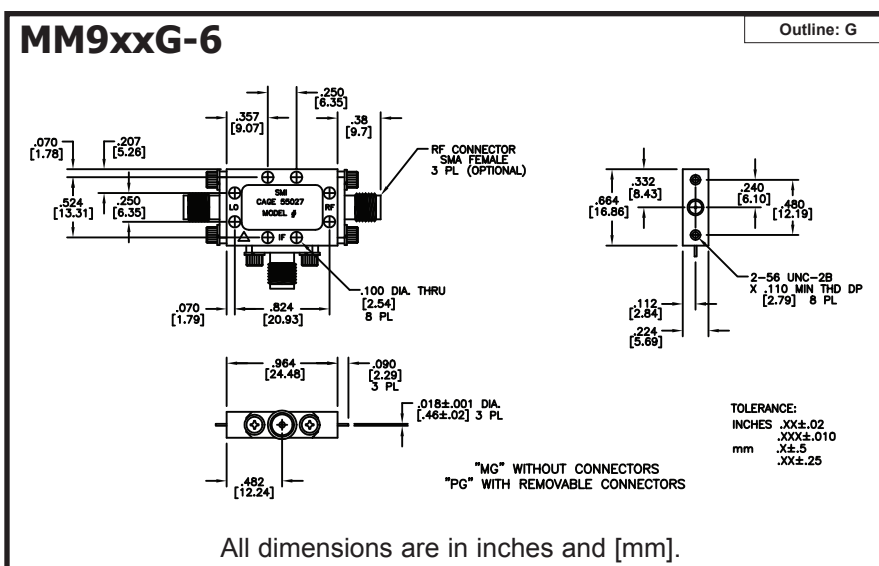
3 = +7 dBm
4 = +10 dBm
6 = +13 dBm
7 = +19 dBm

Drop-In Module or With SMA(F) Connectors

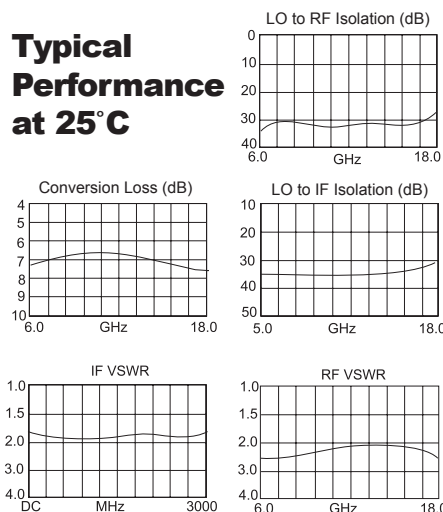
M = Module
P = With Connectors

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



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