

Double Balanced Mixer

Model MM6xxG-10

Multi-Octave Band

RF 2.0 to 12.0 GHz

Electrical Specifications:⁽¹⁾

Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max
SSB Conversion loss: ^{(2) (3)}	2.0-12.0	2.0-12.0	DC-500		6.0 dB	8.0 dB
	2.0-12.0	2.0-12.0	DC-1200		7.0 dB	9.5 dB
	2.0-12.0	2.0-12.0	DC-1500		7.5 dB	10.0 dB
Isolation						
	LO to RF:	2.0-7.5		25 dB	39 dB	
		7.5-12.0		20 dB	30 dB	
LO to IF:		2.0-3.0		18 dB	25 dB	
		3.0-12.0		20 dB	35 dB	
RF to IF:	2.0-12.0				22 dB	
Input 1-dB Compression Point:	2.0-12.0	2.0-12.0	DC-1500		+1 dBm	MM63
					+4 dBm	MM64
					+8 dBm	MM66
					+12 dBm	MM67
Input Third Order Intercept Point:	2.0-12.0	2.0-12.0	DC-1500		+11 dBm	MM63
					+14 dBm	MM64
					+18 dBm	MM66
					+22 dBm	MM67
LO Power: ⁽⁴⁾	2.0-12.0	2.0-12.0	DC-1500		+7 dBm	MM63
					+10 dBm	MM64
					+14 dBm	MM66
					+19 dBm	MM67

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LO Power ←

3 = +7 dBm

4 = +10 dBm

6 = +14 dBm

7 = +19 dBm

→ **Drop-In Module or With SMA(F)**

Connectors

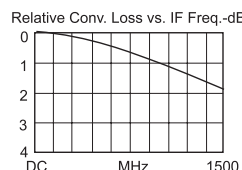
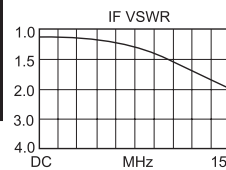
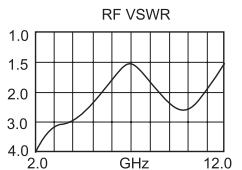
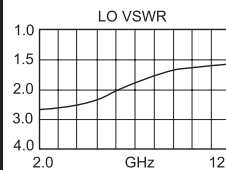
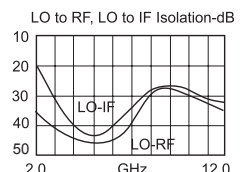
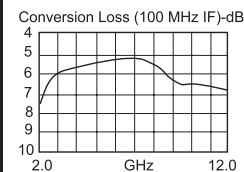
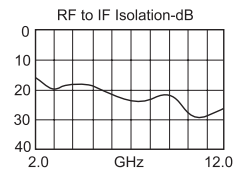
M = Module

P = With Connectors

Notes:

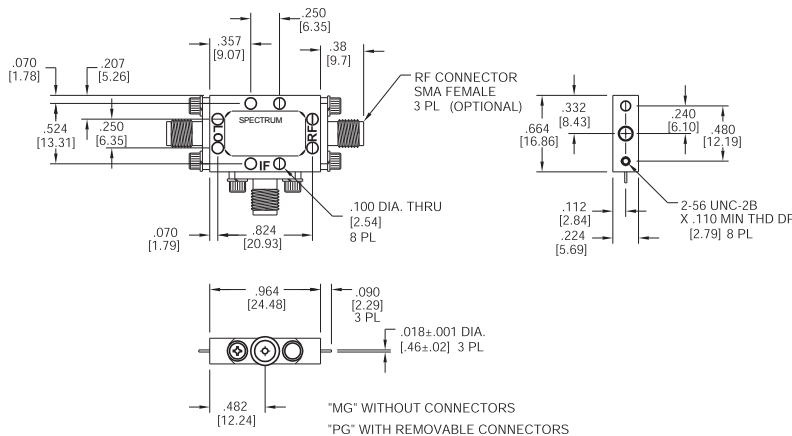
- Specifications are guaranteed when tested as a downconverter in a 50 Ohm system from -55°C to +100°C with the nominal LO power. Specifications indicated as typical are not guaranteed.
- Noise figure is typically within ±0.5 dB of conversion loss for IF frequencies greater than 10 MHz.
- Conversion 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



MM6xxG-10

Outline: G



All dimensions are in inches and [mm].



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