

Double Balanced Mixer

Model MM4xxG-10

Multi-Octave Band

RF 2.0 to 8.0 GHz

Electrical Specifications:⁽¹⁾

Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max
SSB Conversion loss: ^{(2) (3)}	2.0-8.0	2.0-8.0	DC-500		5.4 dB	7.5 dB
	2.0-8.0	2.0-8.0	DC-1200		6.4 dB	8.5 dB
	2.0-8.0	2.0-8.0	DC-1500		6.7 dB	9.0 dB
Isolation						
	LO to RF:		2.0-8.0	25 dB	33 dB	
	LO to IF:		2.0-3.0	18 dB	24 dB	
			3.0-8.0	25 dB	34 dB	
RF to IF:	2.0-8.0				22 dB	
Input 1 dB Compression Point:	2.0-8.0	2.0-8.0	DC-1500		+1 dBm	MM43
					+4 dBm	MM44
					+8 dBm	MM46
					+12 dBm	MM47
Input Third Order Intercept Point:	2.0-8.0	2.0-8.0	DC-1500		+11 dBm	MM43
					+14 dBm	MM44
					+18 dBm	MM46
					+22 dBm	MM47
LO Power: ⁽⁴⁾	2.0-8.0	2.0-8.0	DC-1500		+7 dBm	MM43
					+10 dBm	MM44
					+14 dBm	MM46
					+18 dBm	MM47
					+19 dBm	MM47

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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**

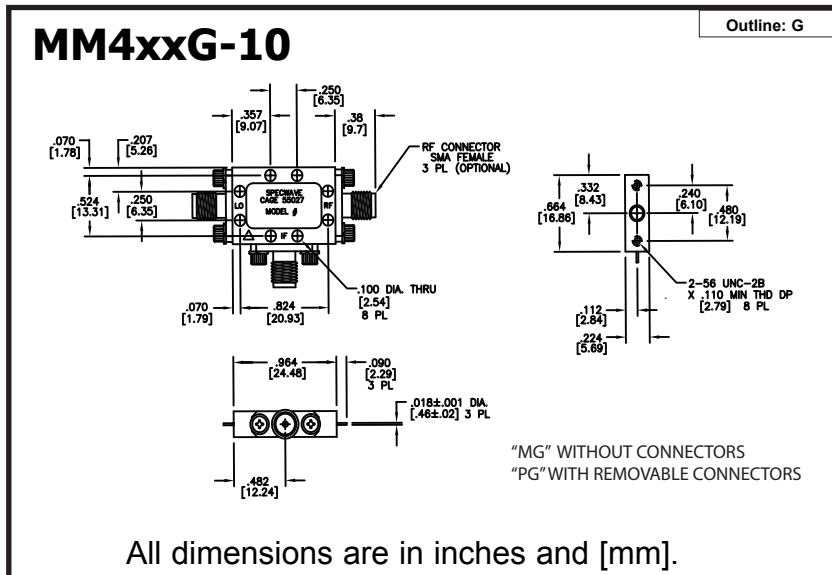
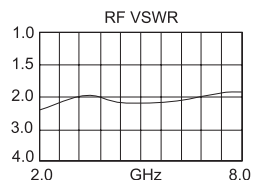
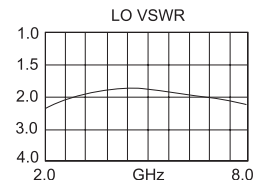
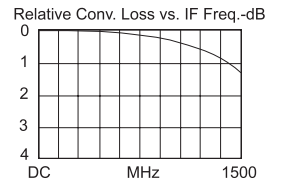
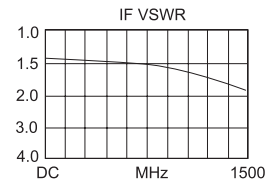
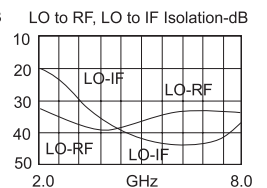
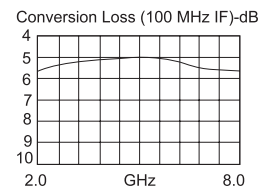
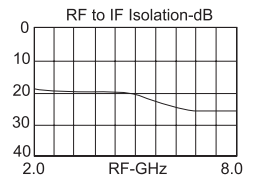
M = Module

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



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