Triple Balanced Mixer — Model MM9xxG-2

Ultra-Broadband — RF 2.0 to 18.0 GHz

Electrical Specifications:[1]

Parameter	Conditions RF (GHz)	LO (GHz)	IF (GHz)	Specifications Min	Typical	Max
SSB Conversion loss:[2][3]	2.0-18.0	2.0-18.0	1.0-12.0		7.0 dB	9.5 dB
Isolation						
LO to RF:		2.0-4.0		17 dB	23 dB	
		4.0-18.0		22 dB	30 dB	
LO to IF:		2.0-18.0		17 dB	23 dB	
RF to IF:	2.0-18.0				28 dB	
IF to RF:			1.0-12.0		25 dB	
Input 1 dB Compression Point:	2.0-18.0	2.0-18.0	1.0-12.0		+5 dBm	MM94
					+8 dBm	MM96
					+12 dBm	MM97
					+15 dBm	MM98
Input Third Order Intercept Point:	2.0-18.0	2.0-18.0	1.0-12.0		+14 dBm	MM94
					+17 dBm	MM96
					+21 dBm	MM97
					+24 dBm	MM98
LO Power:[4]	2.0-18.0	2.0-18.0	1.0-12.0		+10 dBm	MM94
					+13 dBm	MM96
					+17 dBm	MM97
					+21 dBm	MM98

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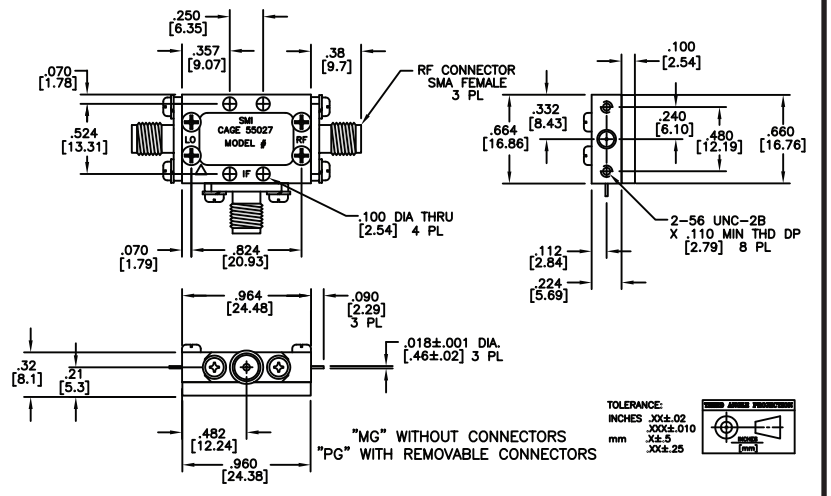
LO Power
4 = +10 dBm
6 = +13 dBm
7 = +17 dBm
8 = +21 dBm

Drop-In Module or With SMA(F) Connectors
M = Module
P = With Connectors

Notes:
1. 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.
2. Noise figure is typically within ±0.5 dB of conversion loss.
3. Conversion loss typically degrades less than 0.5 dB at +100˚C and improves less than 0.5 dB at -55˚C.
4. Usable LO drives are up to 2 dB below and 3 dB above nominal.

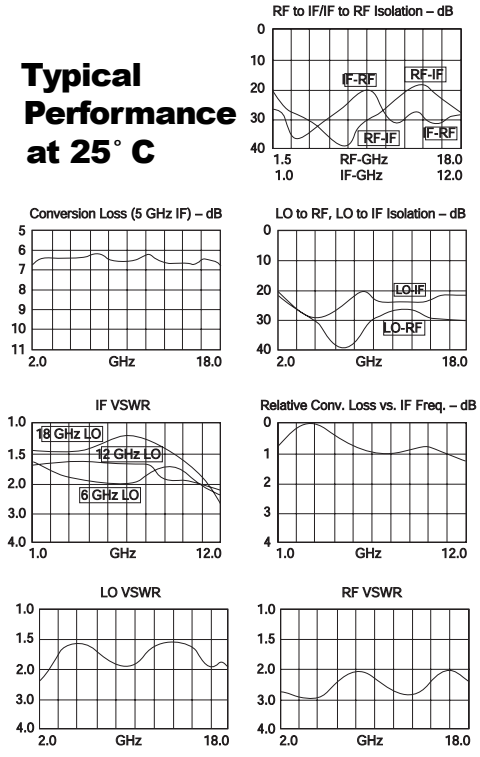
MM9xxG-2

Outline: G1



All dimensions are in inches and [mm].

Typical Performance at 25˚ C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, FL 32905 · PH (888) 553-7531 · Fax (888) 553-7532
www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, PA 19154 · PH (215) 464-4000 · Fax (215) 464-4001

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