Triple Balanced Mixer — Model MM9xxG-3

Ultra-Broadband — RF 2.0 to 18.0 GHz

Electrical Specifications: (1)

Parameter	Conditions RF (GHz)	LO (GHz)	IF (MHz)	Specifications Min	Typical	Max
SSB Conversion loss: (2) (3)	2.0-18.0	2.0-18.0	10-4000		7.3 dB	9.5 dB
Isolation						
LO to RF:		2.0-4.0		15 dB	20 dB	
		4.0-18.0		20 dB	27 dB	
LO to IF:		2.0-18.0		20 dB	28 dB	
RF to IF:	2.0-18.0				22 dB	
Input 1 dB Compression Point:	2.0-18.0	2.0-18.0	10-4000		+2 dBm	MM93
					+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	10-4000		+11 dBm	MM93
					+14 dBm	MM94
					+17 dBm	MM96
					+21 dBm	MM97
					+24 dBm	MM98
LO Power: (4)	2.0-18.0	2.0-18.0	10-4000		+7 dBm	MM93
					+10 dBm	MM94
					+13 dBm	MM96
					+17 dBm	MM97
					+21 dBm	MM98

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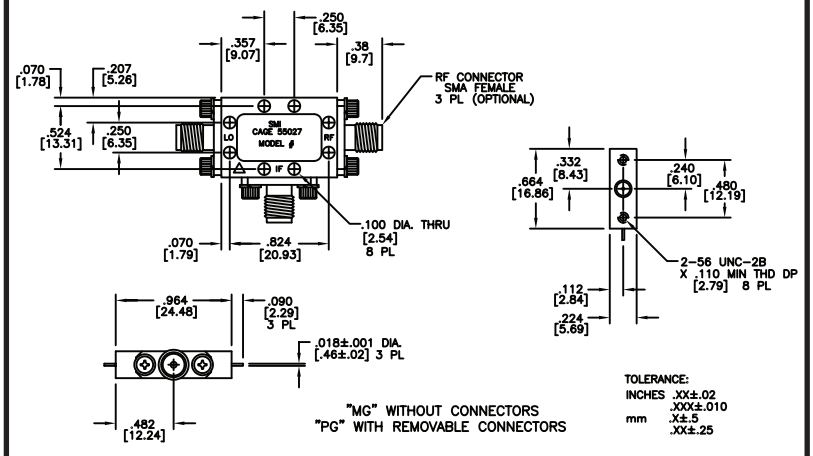
LO Power
3 = +7 dBm
4 = +10 dBm
6 = +13 dBm
7 = +17 dBm
8 = +21 dBm

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.

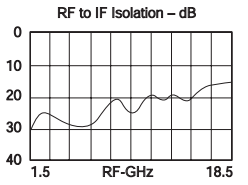
MM9xxG-3

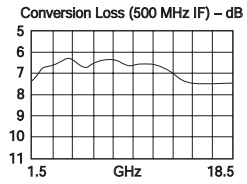
Outline: G

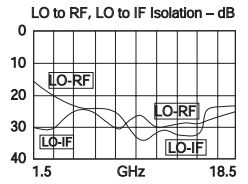


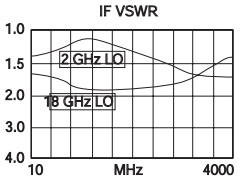
All dimensions are in inches and [mm].

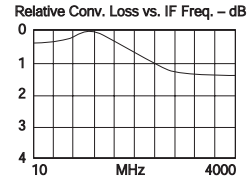
Typical Performance at 25˚C

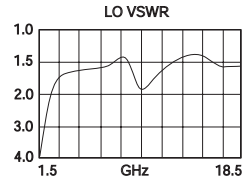


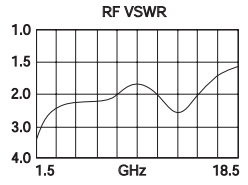












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