Double Balanced Mixer — Model MM9xxG-21

Ultra-Broadband — RF 2.0 to 18.0 GHz

Electrical Specifications:[1]

Parameter	Conditions RF (GHz)	Conditions LO (GHz)	Conditions IF (MHz)	Specifications Min	Specifications Typical	Specifications Max
SSB Conversion loss:[2] [3]	2.0-18.0	2.0-18.0	DC-150		6.5 dB	8.5 dB
	2.0-18.0	2.0-18.0	DC-300		7.0 dB	9.0 dB
	2.0-18.0	2.0-18.0	DC-500		8.0 dB	10.5 dB
	2.0-18.0	2.0-18.0	DC-600		8.5 dB	11.0 dB
Isolation						
LO to RF:		2.0-18.0		20 dB	27 dB	
LO to IF:		2.0-18.0		17 dB	22 dB	
RF to IF:	2.0-18.0				22 dB	
Input 1 dB Compression Point:	2.0-18.0	2.0-18.0	DC-600		+2 dBm +3 dBm	MM93 MM94
Input Third Order Intercept Point:	2.0-18.0	2.0-18.0	DC-600		+10 dBm +13 dBm	MM93 MM94
LO Power:[4]	2.0-18.0	2.0-18.0	DC-600		+7 dBm +10 dBm	MM93 MM94

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LO Power
3 = +7 dBm
4 = +10 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 for IF frequencies greater than 10 MHz.
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.

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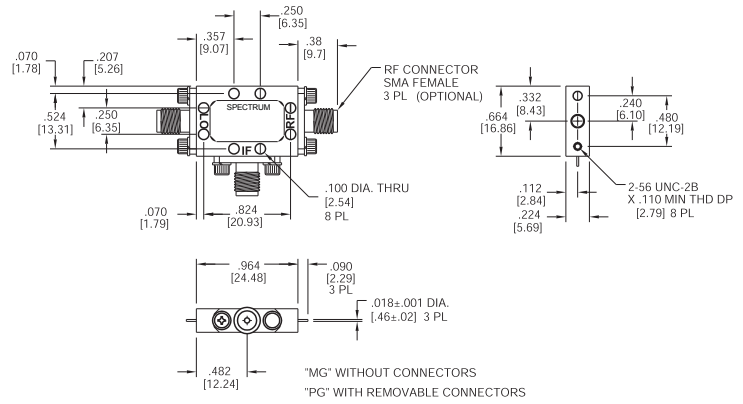
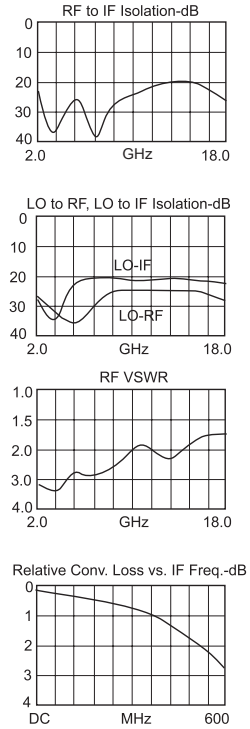
Outline: G



All dimensions are in inches and [mm].

Typical Performance at 25˚C



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