

Triple Balanced Mixer

Model MM4xMS-1 Model MM4xMS-14

Multi-Octave Band

RF 1.5 to 9.0 GHz

Electrical Specifications:⁽¹⁾

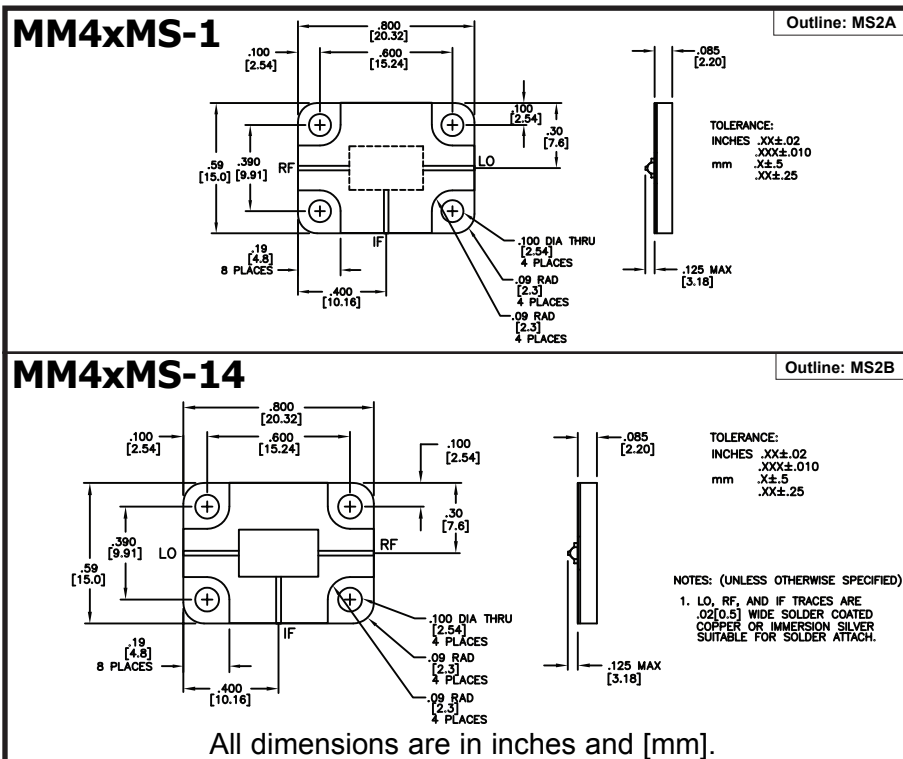
Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max
SSB Conversion loss: ^{(2) (3)}	2.0-9.0	2.0-9.0	10-3000		8.0 dB	9.0 dB
	1.5-9.0	1.5-9.0	10-4000		7.3 dB	9.5 dB
Isolation	LO to RF: LO to IF: RF to IF:	1.5-3.0		15 dB	18 dB	
		3.0-9.0		20 dB	28 dB	
		1.5-9.0		22 dB	32 dB	
Input 1 dB Compression Point:	1.5-9.0	1.5-9.0	10-4000		+5 dBm +8 dBm +12 dBm +15 dBm	MM44 MM46 MM47 MM48
Input Third Order Intercept Point:	1.5-9.0	1.5-9.0	10-4000		+14 dBm +17 dBm +21 dBm +24 dBm	MM44 MM46 MM47 MM48
LO Power: ⁽⁴⁾	1.5-9.0	1.5-9.0	10-4000		+10 dBm +13 dBm +17 dBm +21 dBm	MM44 MM46 MM47 MM48

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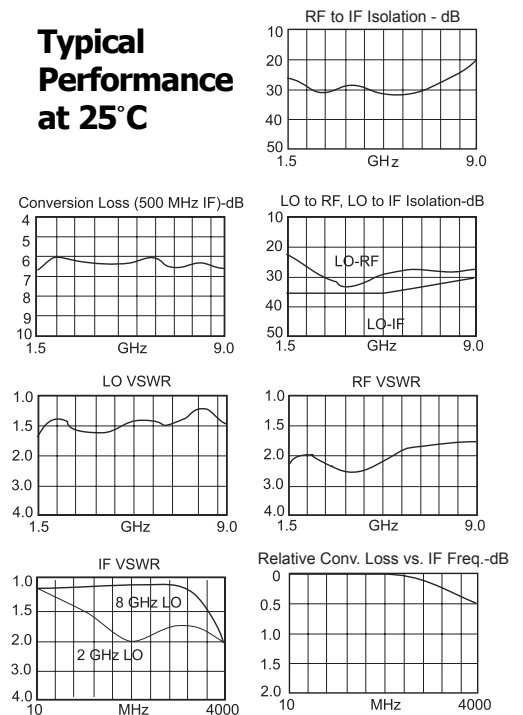
→ **LO Power**
4 = +10 dBm
6 = +13 dBm
7 = +17 dBm
8 = +21 dBm

Notes:

- Specifications are guaranteed when tested as a downconverter in a 50 Ohm system at +25°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 -54°C.
- Usable LO drives are up to 2 dB below and 3 dB above nominal.



Typical Performance at 25°C



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