

Triple Balanced Mixer

Multi-Octave Band

Model MM4xMS Model MM4xMS-15

RF 1.5 to 9.0 GHz

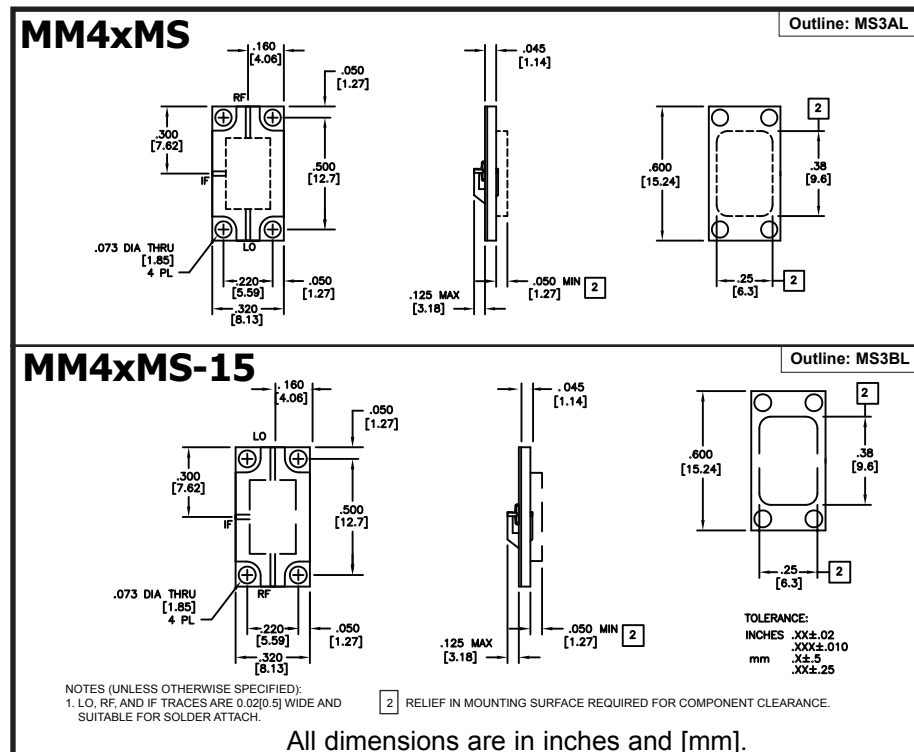
Electrical Specifications:⁽¹⁾

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	10-2000		6.0 dB	7.5 dB	
	1.5-9.0	1.5-9.0	10-4000		6.5 dB	9.0 dB	
Isolation	1.5-9.0	1.5-3.0	10-4000	15 dB	22 dB		
		3.0-9.0		20 dB	27 dB		
		LO to RF:			22 dB		
		LO to IF:			35 dB		
RF to IF:		31 dB					
IF to RF:		42 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: 1. 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.
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.
5. See Application Note M112, for aid in selecting the outline and for mounting and installation information.



All dimensions are in inches and [mm].

Typical Performance at 25°C

