Double Balanced Mixer — Model MM6xxL-10

Multi-Octave Band — RF 2.0 to 12.0 GHz

Electrical Specifications:[1]

Parameter	Conditions RF (GHz)	LO (GHz)	IF (MHz)	Specifications Min	Typical	Max
SSB Conversion loss:[2][3]	2.5-12.0	2.0-12.0	DC-500		6.4 dB	8.0 dB
	2.0-12.0	2.0-12.0	DC-1200		7.0 dB	9.5 dB
	2.0-12.0	2.0-12.0	DC-1500		7.5 dB	10.0 dB
Isolation						
LO to RF:		2.0-7.5		25 dB	39 dB	
		7.0-12.0		20 dB	30 dB	
LO to IF:		2.0-3.0		18 dB	25 dB	
		3.0-12.0		25 dB	35 dB	
RF to IF:	2.0-12.0				22 dB	
Input 1-dB Compression Point:	2.0-12.0	2.0-12.0	DC-1500		+1 dBm	MM63
					+4 dBm	MM64
					+8 dBm	MM66
					+12 dBm	MM67
Input Third Order Intercept Point:	2.0-12.0	2.0-12.0	DC-1500		+11 dBm	MM63
					+14 dBm	MM64
					+18 dBm	MM66
					+22 dBm	MM67
LO Power:[4]	2.0-12.0	2.0-12.0	DC-1500		+7 dBm	MM63
					+10 dBm	MM64
					+14 dBm	MM66
					+19 dBm	MM67

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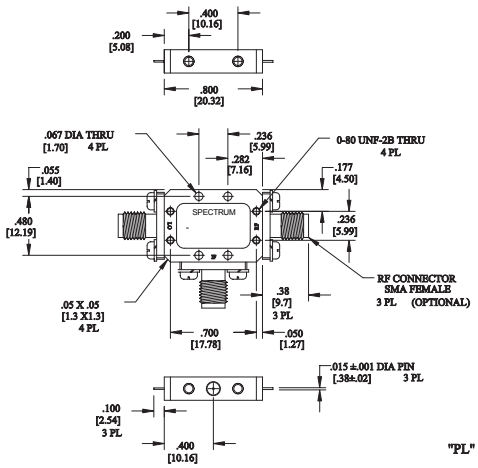
LO Power
3 = +7 dBm
4 = +10 dBm
6 = +14 dBm
7 = +19 dBm

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.

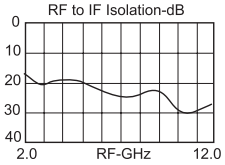
MM6xxL-10

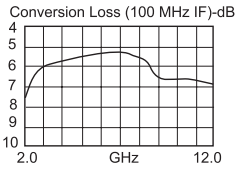
Outline: L1

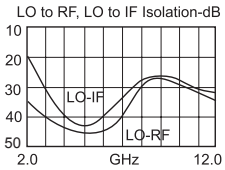


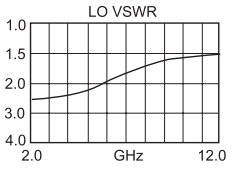
All dimensions are in inches and [mm].

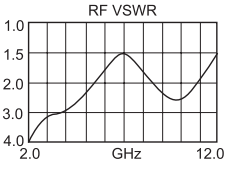
Typical Performance at 25˚C

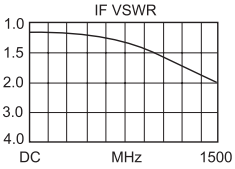


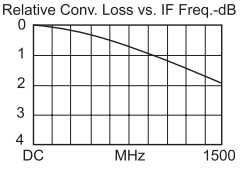












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