Double Balanced Mixer — Model MO4xxN

Octave Band — RF 4.0 to 8.0 GHz

Electrical Specifications: (1)

Parameter	Conditions RF (MHz)	LO (MHz)	IF (MHz)	Specifications Min	Typical	Max
SSB Conversion loss: (2) (3)	4.0-8.0	3.5-8.5	DC-500		5.5 dB	7.0 dB
	4.0-8.0	3.5-8.5	DC-1500		6.0 dB	8.5 dB
	4.0-8.0	3.5-8.5	DC-2000		6.7 dB	9.5 dB
Isolation						
LO to RF:		3.5-8.5		25 dB	33 dB	
LO to IF:		3.5-8.5		15 dB	22 dB	
RF to IF:	4.0-8.0				22 dB	
Input 1 dB Compression Point:	4.0-8.0	3.5-8.5	DC-2000		+1 dBm	MO43
					+4 dBm	MO44
					+8 dBm	MO46
					+12 dBm	MO47
Input Third Order Intercept Point:	4.0-8.0	3.5-8.5	DC-2000		+11 dBm	MO43
					+14 dBm	MO44
					+18 dBm	MO46
					+22 dBm	MO47
LO Power: (4)	4.0-8.0	3.5-8.5	DC-2000		+7 dBm	MO43
					+10 dBm	MO44
					+14 dBm	MO46
					+19 dBm	MO47

Model MO4xxN

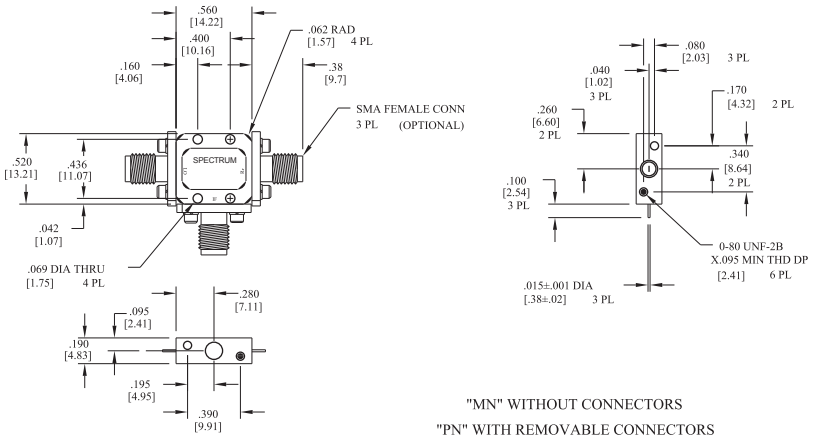
LO Power
3 = +7 dBm
4 = +10 dBm
6 = +14 dBm
7 = +19 dBm

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.

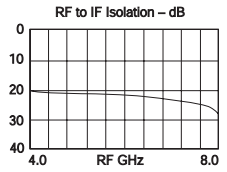
MO4xxN

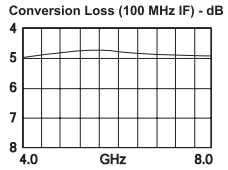
Outline: N

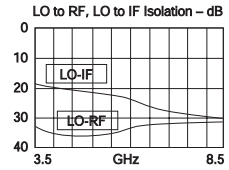


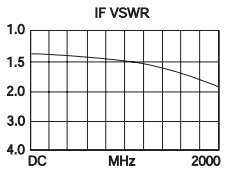
All dimensions are in inches and [mm].

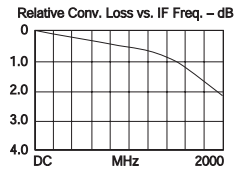
Typical Performance at 25˚C

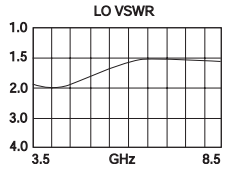


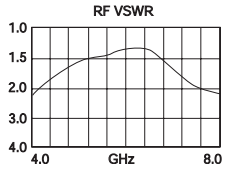












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