Double Balanced Mixer — Model MO6xxN

Octave Band — RF 6.0 to 12.5 GHz

Electrical Specifications: (1)

Parameter	Conditions RF (GHz)	LO (GHz)	IF (MHz)	Specifications Min	Typical	Max
SSB Conversion loss: (2) (3)	6.0-12.5 6.0-12.5	5.0-15.0 5.0-15.0	DC-1000 DC-2500		4.5 dB 5.5 dB	6.5 dB 7.5 dB
Isolation **LO to RF:** **LO to IF:** **RF to IF:**	 6.0-12.5	 5.0-15.0 5.0-15.0	 	 25 dB 25 dB	 37 dB 41 dB 22 dB	
Input 1-dB Compression Point:	6.0-12.5	5.0-15.0	DC-2500		+1 dBm +4 dBm +8 dBm +12 dBm	MO63 MO64 MO66 MO67
Input Third Order Intercept Point:	6.0-12.5	5.0-15.0	DC-2500		+11 dBm +14 dBm +18 dBm +22 dBm	MO63 MO64 MO66 MO67
LO Power: (4)	6.0-12.5	5.0-15.0	DC-2500		+7 dBm +10 dBm +14 dBm +19 dBm	MO63 MO64 MO66 MO67

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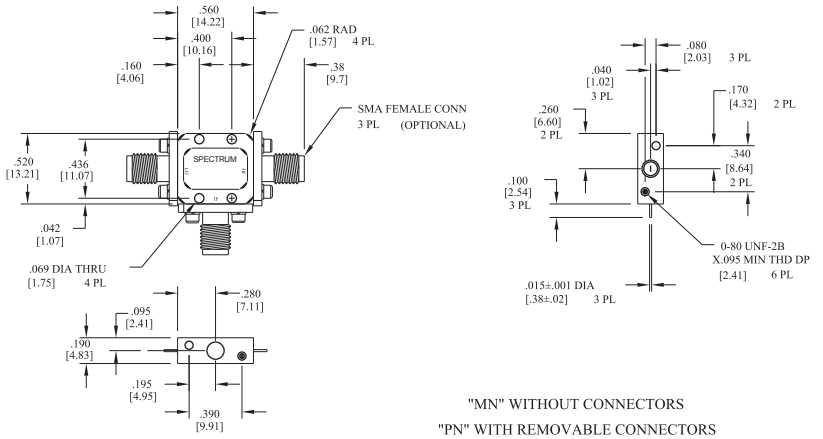
LO Power
3 = +7 dBm
4 = +10 dBm
6 = +14 dBm
7 = +19 dBm

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.

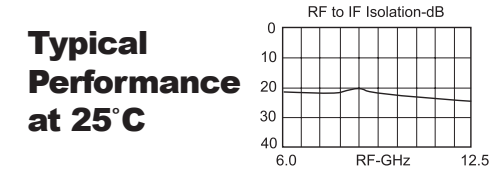
MO6xxN

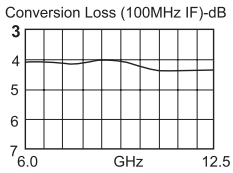
Outline: N

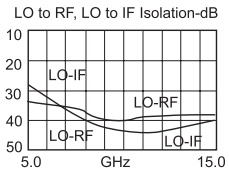


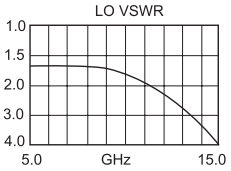
All dimensions are in inches and [mm].

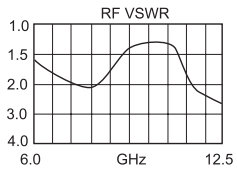
Typical Performance at 25˚C

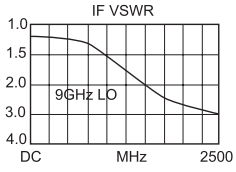


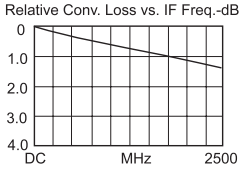












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