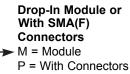
## **Double Balanced Mixer**

### **Communications Band**

### Electrical Specifications:<sup>(1)</sup>

	(	Conditions			Specifications		
Parameter	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max	
SSB Conversion	17.0-24.0	15.0-26.0	DC-2000		7.5 dB	9.5 dB	
loss: <sup>(2) (3)</sup>	17.0-24.0	15.0-26.0	DC-4000		8.5 dB	10.5 dB	
Isolation							
LO to RF:		15.0-26.0		25 dB	38 dB		
LO to IF:		15.0-26.0			30 dB		
RF to IF:	17.0-24.0				40 dB		
Input 1-dB	17.0-24.0	15.0-26.0	DC-4000		+3 dBm		
Compression Point:							
Input Third Order	17.0-24.0	15.0-26.0	DC-4000		+13 dBm		
Intercept Point:							
LO Power: <sup>(4)</sup>	17.0-24.0	15.0-26.0	DC-4000		+10 dBm		

Model MC134xN-3



RF to IF Isolation-dB

10 20

#### Notes:

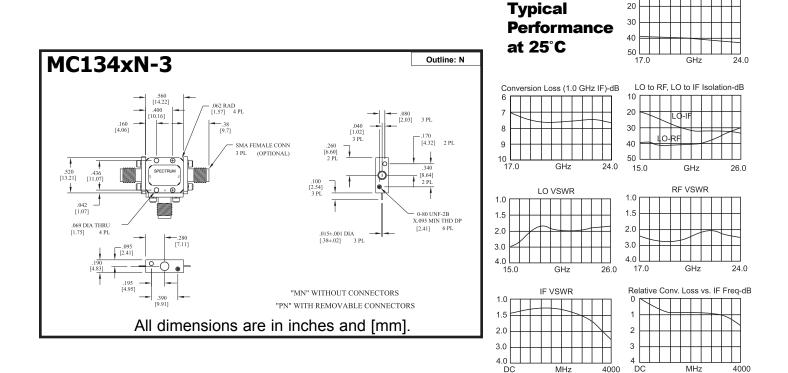
1. Specifications are guaranteed when tested as a downconverter in a 50 Ohm system at +25°C with the

nominal LO power. Specifications indicated as typical are not guaranteed.

2. Noise figure is typically within  $\pm 0.5$  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.





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# Model MC134xN-3

RF 17.0 to 24.0 GHz