Double Balanced Mixer

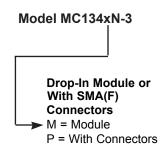
Model MC134xN-3

Communications Band

RF 17.0 to 24.0 GHz

Electrical Specifications:(1)

	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: ^{(2) (3)}	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: (4)	17.0-24.0	15.0-26.0	DC-4000		+10 dBm	



Notes:

- 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 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.

Typical Performance at 25°C

