

Triple Balanced Mixer

Model MM9xxL-1

Ultra-Broadband

RF 2.0 to 18.0 GHz

Electrical Specifications:⁽¹⁾

Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max
SSB Conversion loss: ^{(2) (3)}	2.0-18.0	2.0-18.0	10-4000		7.3 dB	9.5 dB
Isolation						
LO to RF:		2.0-4.0		15 dB	20 dB	
LO to IF:		4.0-18.0		20 dB	27 dB	
RF to IF:	2.0-18.0	2.0-18.0		20 dB	28 dB	
RF to IF:					22 dB	
Input 1 dB Compression Point:	2.0-18.0	2.0-18.0	10-4000		+5 dBm +8 dBm +12 dBm +15 dBm	MM94 MM96 MM97 MM98
Input Third Order Intercept Point:	2.0-18.0	2.0-18.0	10-4000		+14 dBm +17 dBm +21 dBm +24 dBm	MM94 MM96 MM97 MM98
LO Power: ⁽⁴⁾	2.0-18.0	2.0-18.0	10-4000		+10 dBm +13 dBm +17 dBm +21 dBm	MM94 MM96 MM97 MM98

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LO Power

- 4 = +10 dBm
- 6 = +13 dBm
- 7 = +17 dBm
- 8 = +21 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.
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

