

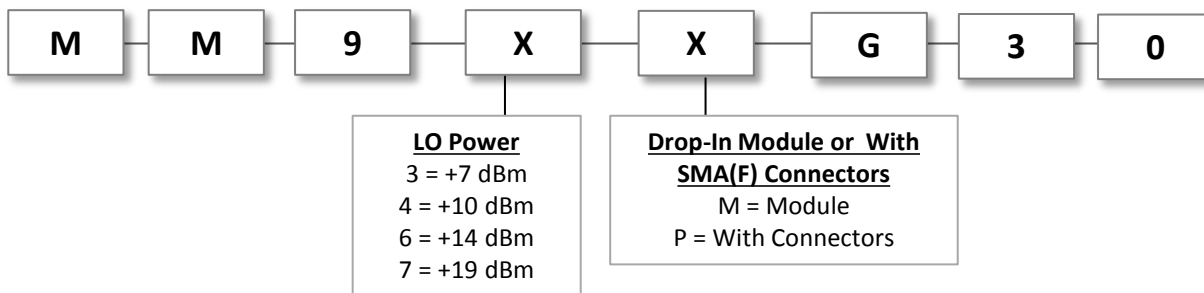
Double Balanced Mixer

Multi-Octave Band: RF 6.0 to 18.0 GHz

Electrical Specifications⁽¹⁾

Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (GHz)	Min	Typical	Max
SSB Conversion loss: ⁽²⁾⁽³⁾	6.0-18.0	4.0-18	DC-2000		5.5 dB	7.5 dB
	6.0-18.0	4.0-18	DC-3000		6.0 dB	8.0 dB
	7.0-16.0	7.0-18.0	DC-4000		6.2 dB	8.0 dB
	6.0-18.0	4.0-18.0	DC-4000		6.5dB	8.5dB
Isolation	6.0-18.0	4.0-18.0		25 dB 20 dB 20 dB	Low to RF:	40 dB
Low to IF:					38 dB	
RF to IF:					27 dB	
					28 dB	
Input 1 dB Compression Point:	6.0-18.0	4.0-18.0	DC-4000		+1 dBm	MM93
					+4 dBm	MM94
					+8 dBm	MM96
					+12 dBm	MM97
Input Third Order Intercept Point:	6.0-18.0	4.0-18.0	DC-4000		+11 dBm	MM93
					+14 dBm	MM94
					+18 dBm	MM96
					+22 dBm	MM97
LO Power: ⁽⁴⁾	6.0-18.0	4.0-18.0	DC-4000		+7 dBm	MM93
					+10 dBm	MM94
					+14 dBm	MM96
					+19 dBm	MM97

Ordering Information

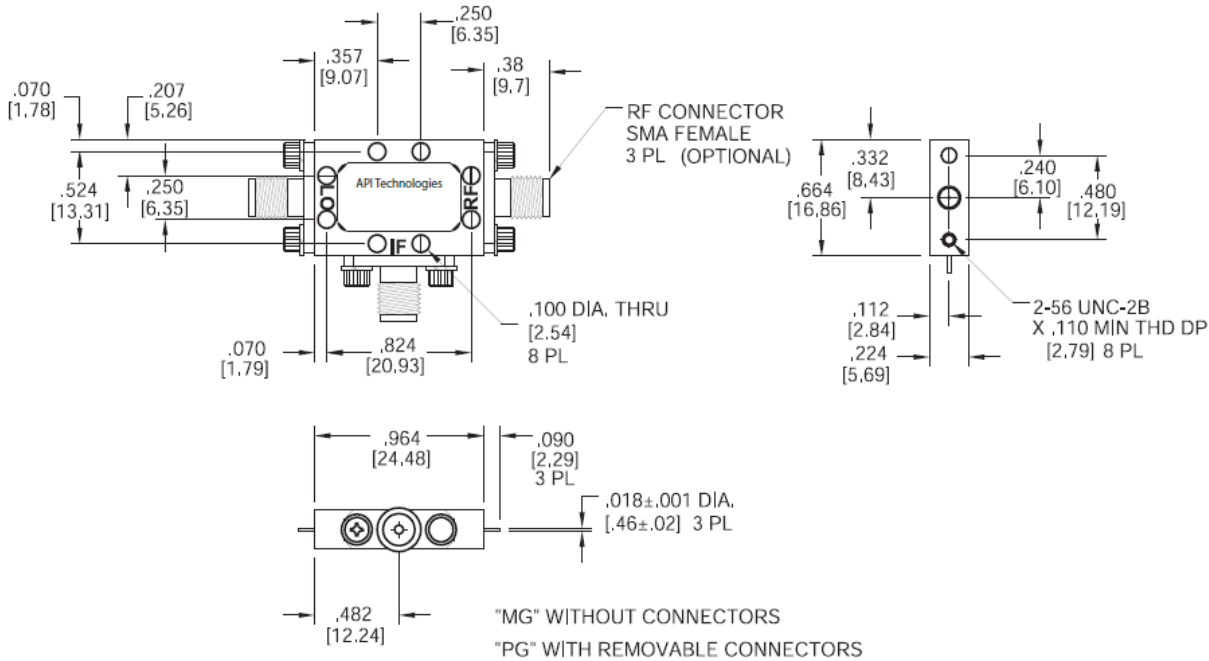


Notes:

- 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.
- Noise figure is typically within ±0.5 dB of conversion loss for IF frequencies greater than 10 MHz.
- Conversion loss typically degrades less than 0.5 dB at +100°C and improves less than 0.5 dB at -55°C.
- Usable LO drives are up to 2 dB below and 3 dB above nominal.

Outline Drawings

All dimensions are in inches and [mm].



Typical Performance at 25°C

