

# Double Balanced Mixer

# Model MM6xxG-10

Multi-Octave Band

RF 2.0 to 12.0 GHz

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

Parameter	Conditions			Specifications						
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max				
<b>SSB Conversion loss:</b> <sup>(2) (3)</sup>	2.0-12.0	2.0-12.0	DC-500		6.0 dB					
	2.0-12.0	2.0-12.0	DC-1200		7.0 dB	9.5 dB				
	2.0-12.0	2.0-12.0	DC-1500		7.5 dB	10.0 dB				
<b>Isolation</b>		2.0-7.5 7.5-12.0		25 dB 20 dB	39 dB 30 dB					
							<b>LO to RF:</b>	2.0-3.0	18 dB	25 dB
							<b>LO to IF:</b>	3.0-12.0	20 dB	35 dB
<b>RF to IF:</b>	2.0-12.0				22 dB					
<b>Input 1-dB Compression Point:</b>	2.0-12.0	2.0-12.0	DC-1500		+1 dBm +4 dBm +8 dBm +12 dBm	MM63 MM64 MM66 MM67				
<b>Input Third Order Intercept Point:</b>	2.0-12.0	2.0-12.0	DC-1500		+11 dBm +14 dBm +18 dBm +22 dBm	MM63 MM64 MM66 MM67				
<b>LO Power:</b> <sup>(4)</sup>	2.0-12.0	2.0-12.0	DC-1500		+7 dBm +10 dBm +14 dBm +19 dBm	MM63 MM64 MM66 MM67				

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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)**

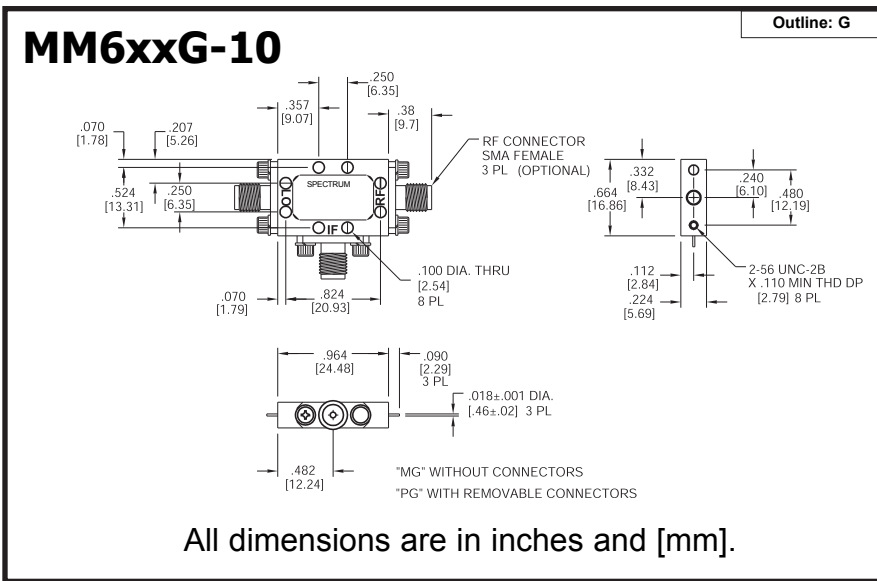
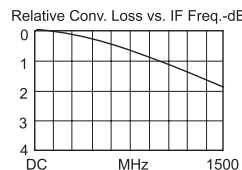
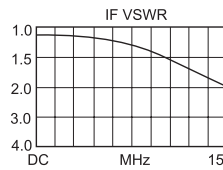
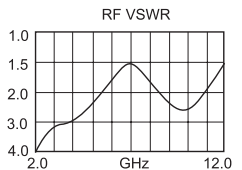
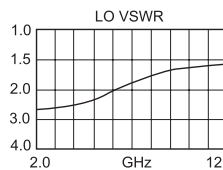
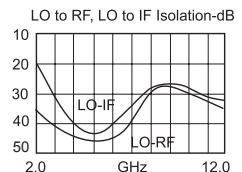
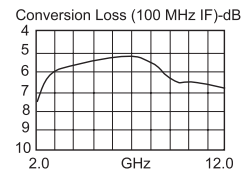
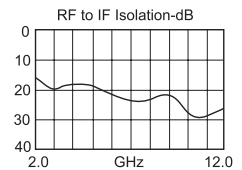
**Connectors**

- M = Module
- P = With Connectors

**Notes:**

- 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.

## Typical Performance at 25°C



All dimensions are in inches and [mm].



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