

Double Balanced Mixer

Model MM6xxG-10

Multi-Octave Band

RF 2.0 to 12.0 GHz

Electrical Specifications:⁽¹⁾

| Parameter | Conditions | | | Specifications | | |
|--|------------------|----------|----------|----------------|--|------------------------------|
| | RF (GHz) | LO (GHz) | IF (MHz) | Min | Typical | Max |
| SSB Conversion loss: ^{(2) (3)} | 2.0-12.0 | 2.0-12.0 | DC-500 | | 6.0 dB | 8.0 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 |
| Isolation | | | | | | |
| | LO to RF: | 2.0-7.5 | | 25 dB | 39 dB | |
| | LO to IF: | 7.5-12.0 | | 20 dB | 30 dB | |
| | | 2.0-3.0 | | 18 dB | 25 dB | |
| | | 3.0-12.0 | | 20 dB | 35 dB | |
| | 2.0-12.0 | | | | 22 dB | |
| Input 1-dB Compression Point: | 2.0-12.0 | 2.0-12.0 | DC-1500 | | +1 dBm +4 dBm +8 dBm +12 dBm | MM63 MM64 MM66 MM67 |
| Input Third Order Intercept Point: | 2.0-12.0 | 2.0-12.0 | DC-1500 | | +11 dBm +14 dBm +18 dBm +22 dBm | MM63 MM64 MM66 MM67 |
| LO Power: ⁽⁴⁾ | 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)**

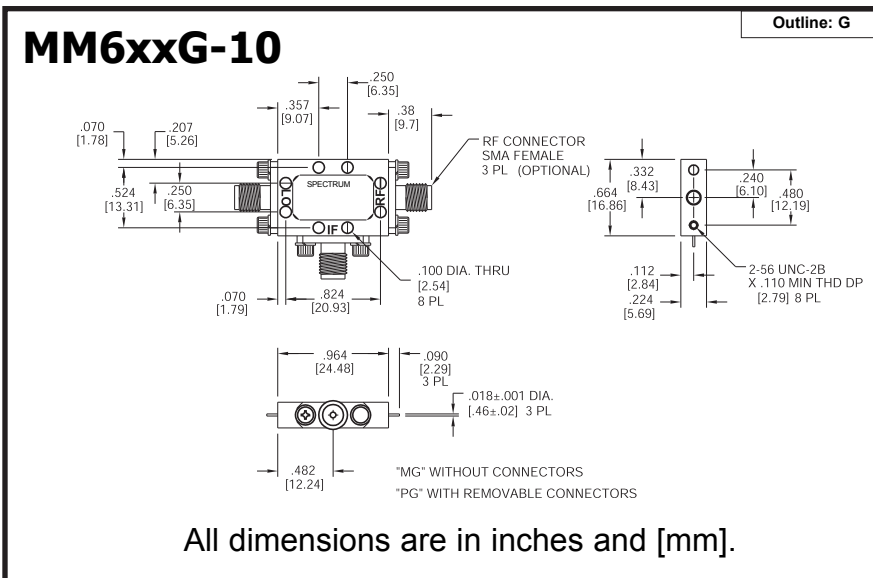
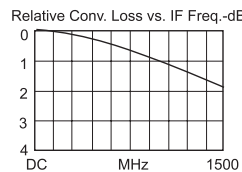
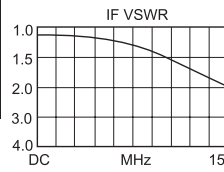
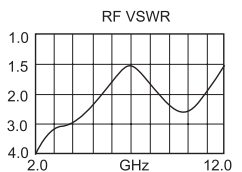
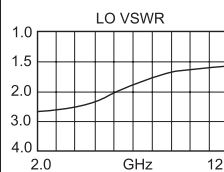
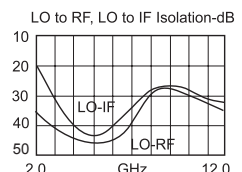
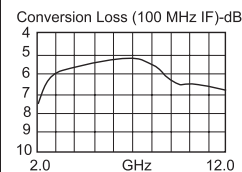
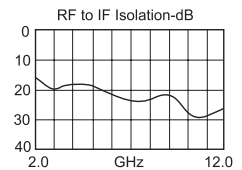
Connectors

- 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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, FL 32905 · PH (888) 553-7531 · Fax (888) 553-7532

www.SpectrumMicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, PA 19154 · PH (215) 464-4000 · Fax (215) 464-4001