

Triple Balanced Mixer

Model MM9xxG-3

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 | | 2.0-4.0 | | 15 dB | 20 dB | |
| | | 4.0-18.0 | | | 27 dB | |
| | | 2.0-18.0 | | | 28 dB | |
| LO to RF: | | | | | 22 dB | |
| LO to IF: | 2.0-18.0 | | | | | |
| RF to IF: | | | | | | |
| Input 1 dB Compression Point: | 2.0-18.0 | 2.0-18.0 | 10-4000 | | +2 dBm +5 dBm +8 dBm +12 dBm | MM93 MM94 MM96 MM97 |
| Input Third Order Intercept Point: | 2.0-18.0 | 2.0-18.0 | 10-4000 | | +11 dBm +14 dBm +17 dBm +21 dBm | MM93 MM94 MM96 MM97 |
| LO Power: ⁽⁴⁾ | 2.0-18.0 | 2.0-18.0 | 10-4000 | | +7 dBm +10 dBm +13 dBm +17 dBm | MM93 MM94 MM96 MM97 |

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LO Power ←

3 = +7 dBm
4 = +10 dBm
6 = +13 dBm
7 = +17 dBm

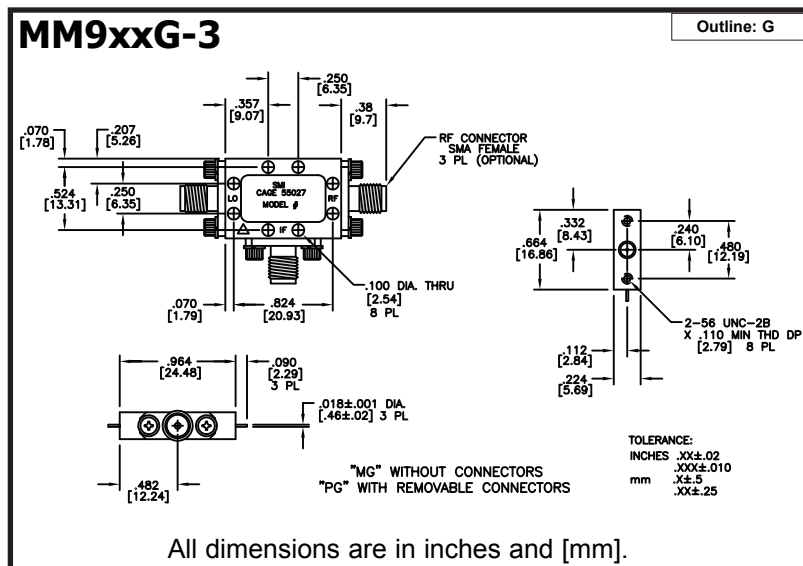
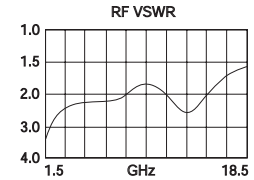
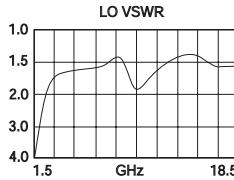
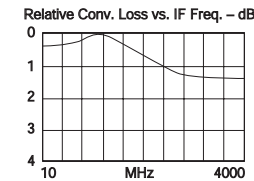
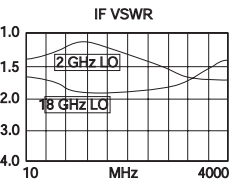
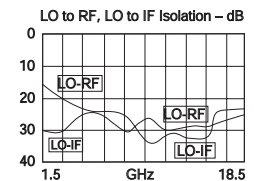
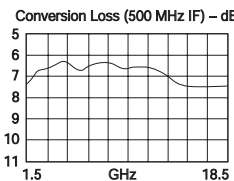
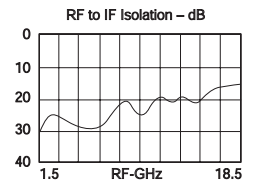
Drop-In Module or With SMA(F) Connectors

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.
- 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.
- Revision July 25, 2022

Typical Performance at 25°C



All dimensions are in inches and [mm].



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