



DOUBLE-BALANCED MIXERS

M9-4262



Features

- RF 42.0 to 62.0 GHz
- LO 40.0 GHz
- IF 2.0 to 22.0 GHz
- 12 dB Typical Conversion Loss
- 30 dB Typical LO to RF Isolation
- 2.92 mm LO Connector
- 2.40 mm RF Connector
- Available with 2.40 mm Connector on both RF and LO

Electrical Specifications - Specifications guaranteed from -55 to +100°C, measured in a 50-Ohm system.

Parameter	LO (GHz)	RF (GHz)	IF (GHz)	Min	Typ	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	40.0 40.0	42.0-62.0 59.0-61.0	2.0-22.0 19.0-21.0		12.0 13.0	18.0 17.0	
Isolation (dB)							
LO-RF	39.0-41.0	39.0-41.0		20	30		
LO-IF	39.0-41.0	39.0-41.0			30		
RF-IF	42.0-62.0	42.0-62.0			25		
Input 1 dB Compression (dBm)	40.0	42.0-62.0			+0 +5		L (+9 to +13) I (+16 to +19)
Input Two-Tone Third Order Intercept Point (dBm)	40.0	42.0-62.0			+10 +15		L (+9 to +13) I (+16 to +19)

Part Number Options

Please specify diode level and package style by adding to model number.

Package Style(s)	Example
NVR , NVM	M9-4262 <u>L</u> NVR

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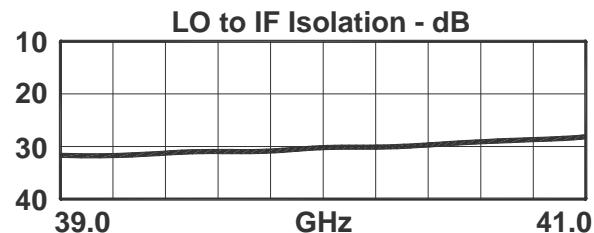
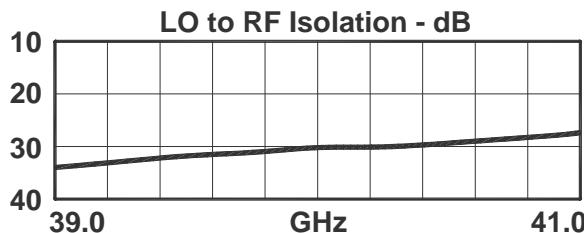
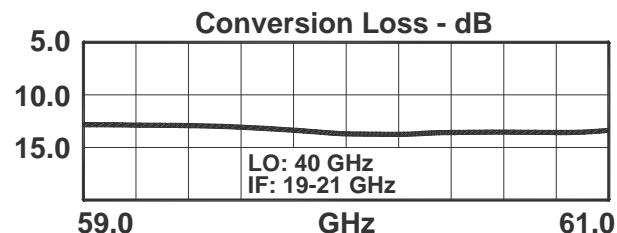
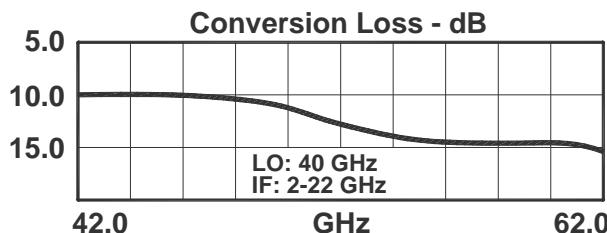
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**RF 42.0 to 62.0 GHz
LO 40.0 GHz
IF 2.0 to 22.0 GHz**

Typical Performance



DATA SHEET NOTES:

1. Mixer Noise Figure typically measures within +0.5 dB of conversion loss for IF frequencies greater than 5 MHz.
2. Conversion Loss typically degrades less than 0.5 dB for LO drives 2 dB below the lowest and 3 dB above highest nominal LO drive levels.
3. Conversion Loss typically degrades less than 0.5 dB at +100°C and improves less than 0.5 dB at -55°C.
4. Maximum input power is +23 dBm at +25°C, derated linearly to +20 dBm at +100°C.
5. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.
6. Catalog mixer circuits are continually improved. Configuration control requires custom mixer model numbers and specifications.

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