



DOUBLE-BALANCED MIXERS

M4-0265



Features

- RF 2.0 to 65.0 GHz
- LO 2.0 to 65.0 GHz
- IF DC to 100 MHz
- 8.0 dB Typical Fundamental Conversion Loss
- 20 dB Typical 3rd Harmonic Loss
- 2.40 mm RF/LO Connectors

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

Parameter	LO (GHz)	RF (GHz)	IF (MHz)	Min	Typ	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	2.0-40.0 2.0-65.0	2.0-40.0 2.0-65.0	DC-100 DC-100		8.0 12.0	12.0 15.0	
Third Harmonic LO Conversion Loss (dB)	6.67-21.67	20.0-65.0	DC-100		20.0	25.0	
Isolation (dB)							
LO-RF	2.0-40.0	2.0-40.0			25		
LO-IF	2.0-40.0	2.0-40.0			25		
RF-IF	2.0-40.0	2.0-40.0			25		
Input 1 dB Compression (dBm)	2.0-40.0	2.0-40.0			+2		L (+10 to +17)
Input Two-Tone Third Order Intercept Point (dBm)	2.0-40.0	2.0-40.0			+12		L (+10 to +17)

Part Number Options

Please specify diode level and package style by adding to model number.	
Package Style(s)	Example
NVM	M4-0265 <u>L</u> <u>NVM</u>

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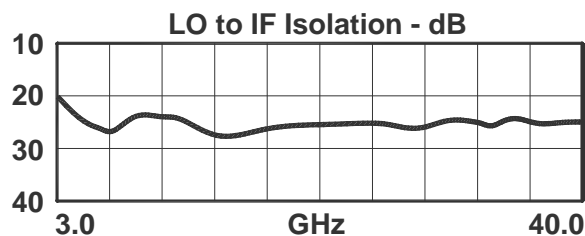
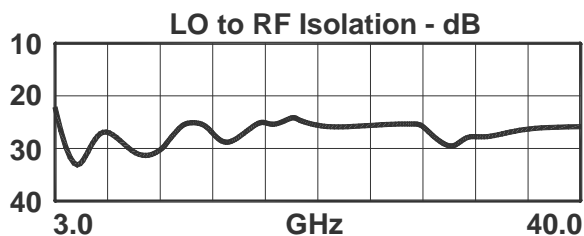
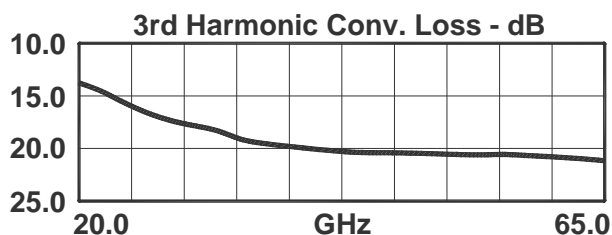
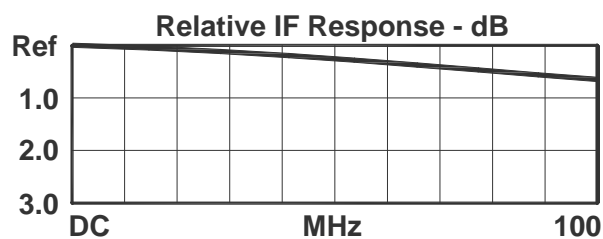
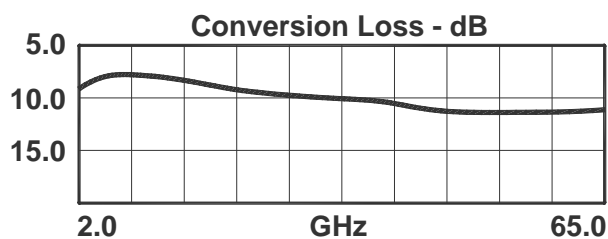
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LO/RF 2.0 to 65.0 GHz
IF DC to 100 MHz

Typical Performance



DATA SHEET NOTES:

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

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