

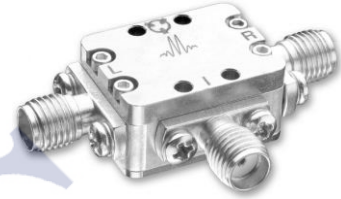


TRIPLE-BALANCED MIXERS

M2-0026

Features

- LO/RF .01 to 26.5 GHz
- IF .001 to 6.0 GHz
- 8.0 dB Typical Conversion Loss
- Ultra-Broadband RF, LO, and IF



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)	.01-26.5	.01-26.5	.001-6.0		8.0		
Isolation (dB)							
LO-RF	.01-26.5	.01-26.5			30		
LO-IF	.01-26.5	.01-26.5			30		
RF-IF	.01-26.5	.01-26.5			30		
Input 1 dB Compression (dBm)	.01-26.5	.01-26.5			+5		L (+15 to +18)
Input Two-Tone Third Order Intercept Point (dBm)	.01-26.5	.01-26.5			+15		L (+15 to +18)

Part Number Options

Please specify diode level and package style by adding to model number.						
Package Options			Examples			
Connectorized	<u>P</u>		M2-0026LP			
Package Options Not Recommended for New Designs			Examples			
Microstrip ^{1,2}	<u>E</u>		M2-0026 (Model)	<u>L</u> (Diode Option)	<u>E</u> (Package)	<u>-2</u> (I-Port Configuration)

¹Connectorized test fixtures available for most microstrip packages. Consult factory.

²For non-connectorized packages, specify I-port configuration by adding -1 or -2 suffix to model number. Default is -2 configuration when not specified.

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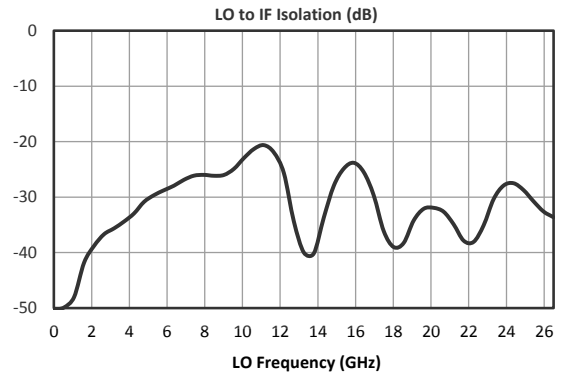
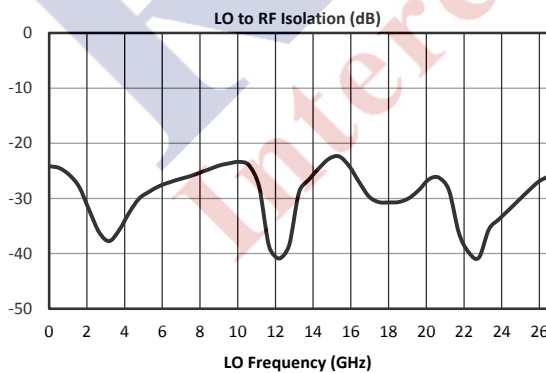
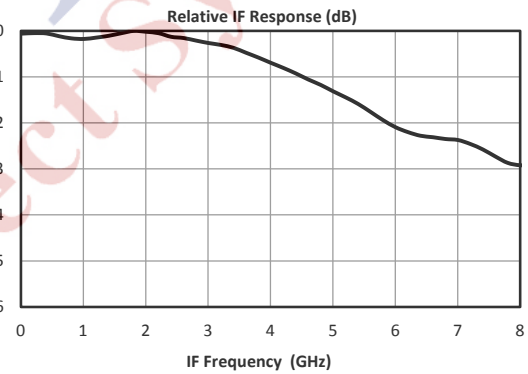
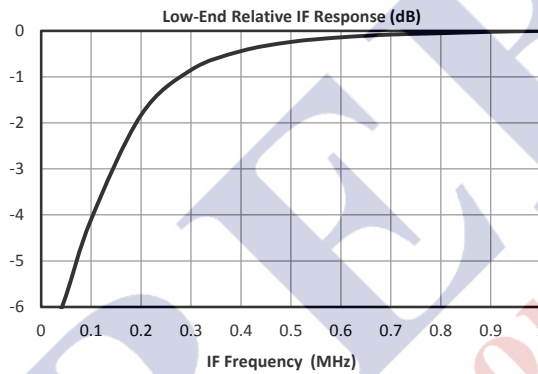
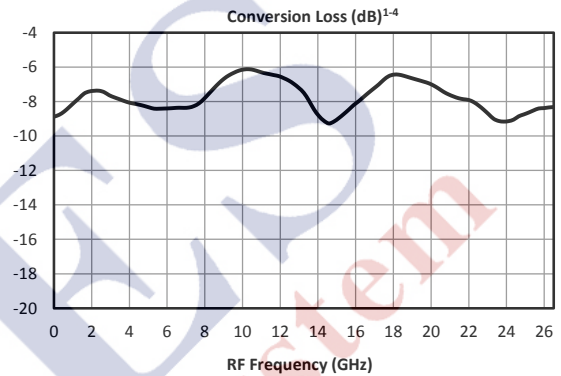
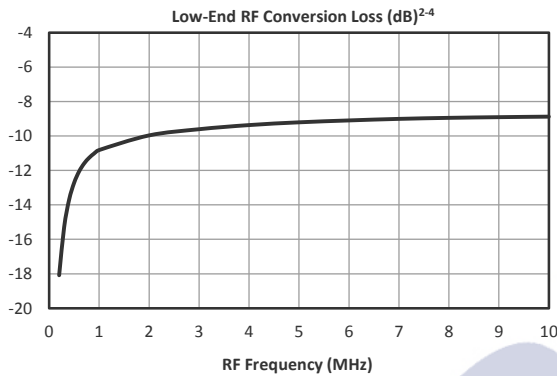
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LO/RF .01 to 26.5 GHz

IF .001 to 6.0 GHz

Typical Performance



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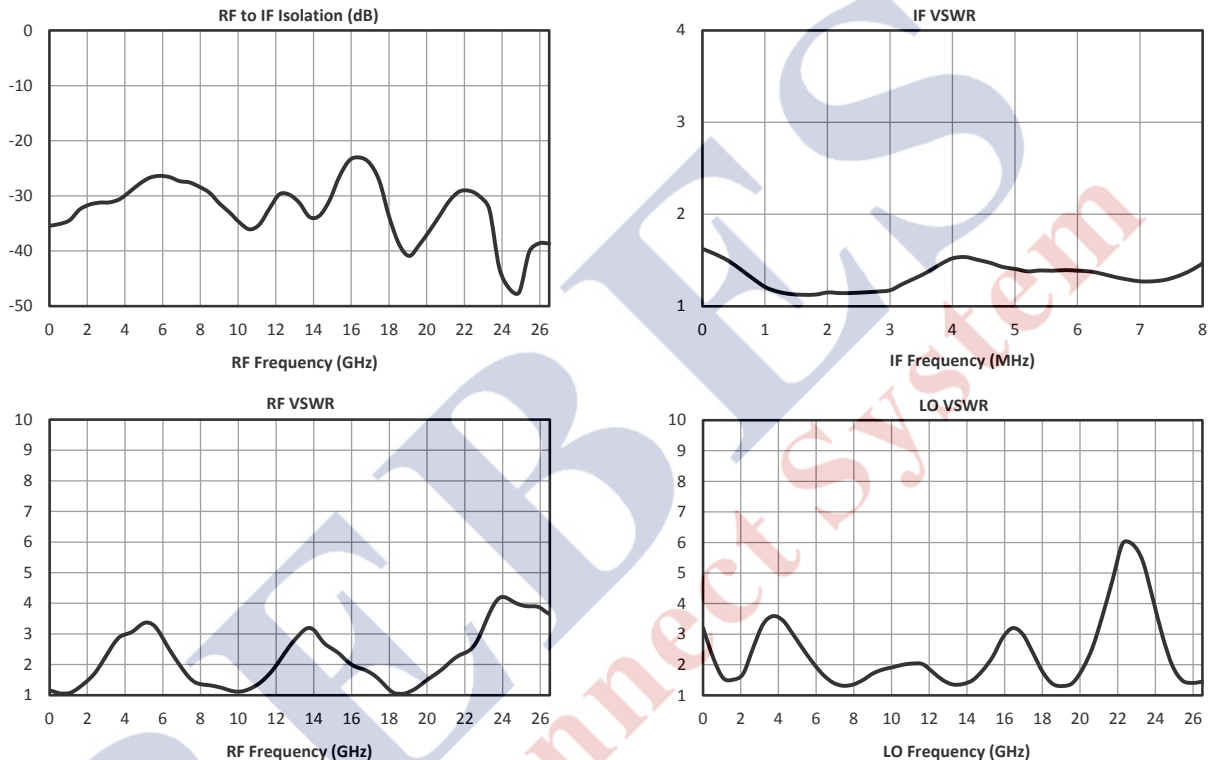
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LO/RF .01 to 26.5 GHz

IF .001 to 6.0 GHz

Typical Performance



DATA SHEET NOTES:

1. Mixer Conversion Loss Plot IF frequency is 100 MHz.
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 +26 dBm at +25°C, derated linearly to +23 dBm at +100°C.
6. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.
7. Standard configuration for A and B outlines are with connectors and bottom spacer.
8. Catalog mixer circuits are continually improved. Configuration control requires custom mixer model numbers and specifications.

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