

TRIPLE-BALANCED MIXERS

M2B-0226

Features

- LO/RF 2.0 to 26.0 GHz
- IF 1.0 to 15.0 GHz
- 7.5 dB Typical Conversion Loss
- 15 dB Typical LO to RF Isolation
- 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)	2.0-18.0	2.5-18.0	1.0-10.0		7.5	9.5	
	2.0-26.0	2.0-18.0	2.0-12.0		8.0	10.5	
	2.0-20.0	2.0-20.0	1.0-15.0		9.0	11.5	
	20.0-26.0	20.0-26.0	1.0-12.0 1.0-15.0 (F _L <F _R)		11.0	13.5	
Isolation (dB)							
LO-RF	2.0-3.0	2.0-3.0		18	20		
LO-RF	3.0-26.0	3.0-26.0		13	15		
LO-IF	2.0-7.0	2.0-7.0		18	20		
LO-IF	7.0-26.0	7.0-26.0		13	15		
RF-IF	2.0-26.0	2.0-26.0			20		
Input 1 dB Compression (dBm)	2.0-26.0	2.0-26.0			+5		L (+10 to +13)
Input Two-Tone Third Order Intercept Point (dBm)	2.0-26.0	2.0-26.0			+15		L (+10 to +13)

Part Number Options

<i>Please specify diode level and package style by adding to model number.</i>	
Package Style(s)	Example
P	M2B-0226LP

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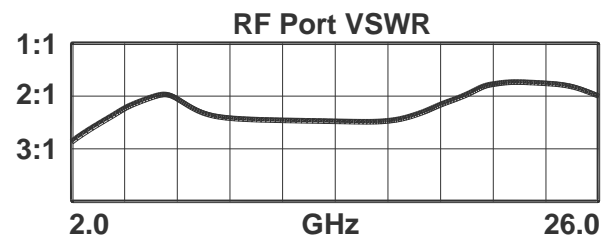
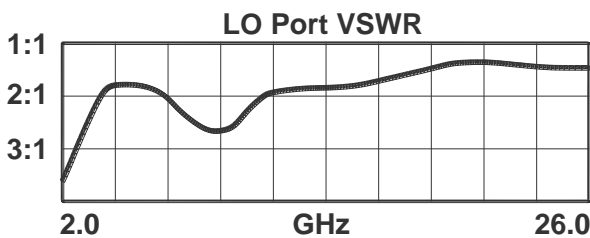
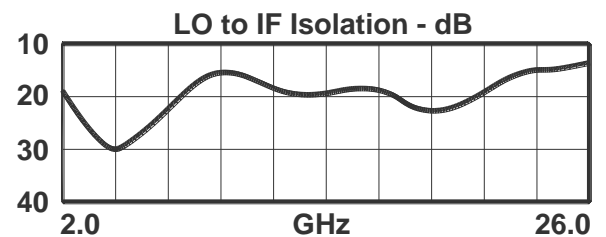
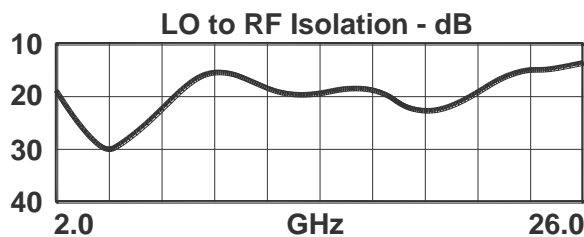
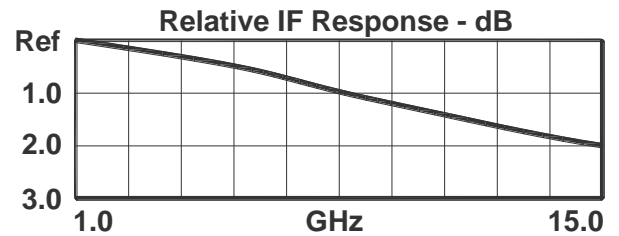
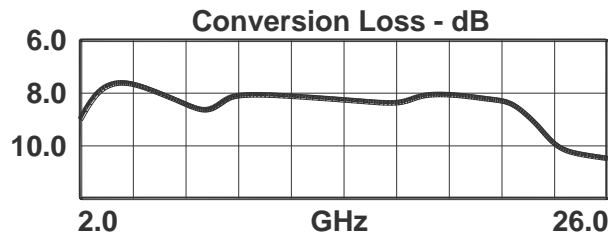
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Page 2

M2B-0226

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IF 1.0 to 15.0 GHz

Typical Performance



DATA SHEET NOTES:

1. Mixer Conversion Loss Plot IF frequency is 1 GHz.
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, B, and C 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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215 Vineyard Court, Morgan Hill, CA 95037 | Ph: 408.778.4200 | Fax 408.778.4300 | info@markimicrowave.com

www.markimicrowave.com