

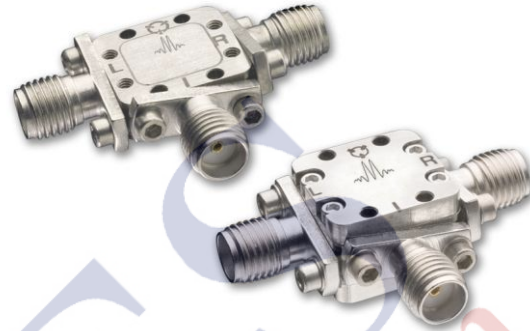


TRIPLE-BALANCED MIXERS

M2-0219

Features

- LO/RF 2.0 to 19.0 GHz
- IF .001 to 6.0 GHz
- 7.0 dB Typical Conversion Loss
- 25 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)	2.0-19.0	2.0-19.0	.001-1.0		7.0	9.5	
	2.0-19.0	2.0-19.0	1.0-3.0		7.5	10.0	
	2.0-19.0	2.0-19.0	3.0-6.0		8.0	10.5	
Isolation (dB)							
LO-RF	2.0-4.0	2.0-4.0		12	20		
LO-RF	4.0-19.0	4.0-19.0		16	25		
LO-IF	2.0-19.0	2.0-19.0			25		
RF-IF	2.0-19.0	2.0-19.0			30		
Input 1 dB Compression (dBm)	2.0-19.0	2.0-19.0			+5		L (+10 to +13)
					+8		M (+13 to +16)
					+11		N (+16 to +19)
					+14		H (+19 to +22)
Input Two-Tone Third Order Intercept Point (dBm)	2.0-19.0	2.0-19.0			+15		L (+10 to +13)
					+18		M (+13 to +16)
					+21		N (+16 to +19)
					+24		H (+19 to +22)

Part Number Options

Please specify diode level and package style by adding to model number.	
Package Style(s) ¹	Example
R , S , Z	M2-0219 L R

¹Connectorized test fixtures available for most carrier and surface mount packages. Consult factory.

Marki Microwave reserves the right to make changes to the product(s) or information contained herein without notice. Marki Microwave makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Marki Microwave assume any liability whatsoever arising out of the use of or application of any product.

215 Vineyard Court, Morgan Hill, CA 95037 | Ph: 408.778.4200 | Fax 408.778.4300 | info@markimicrowave.com



TRIPLE-BALANCED MIXERS

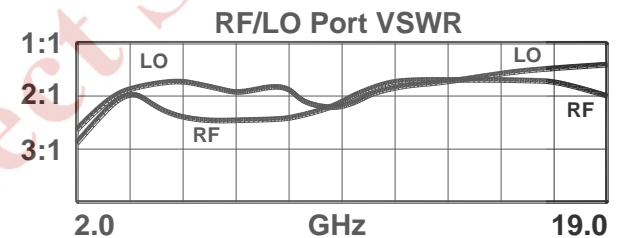
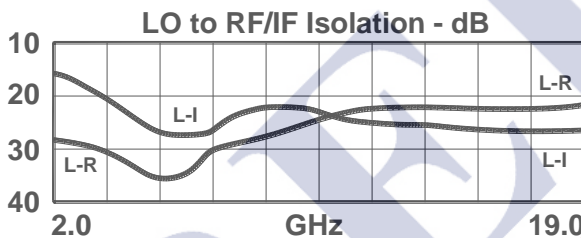
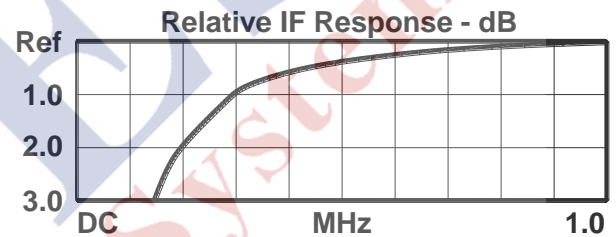
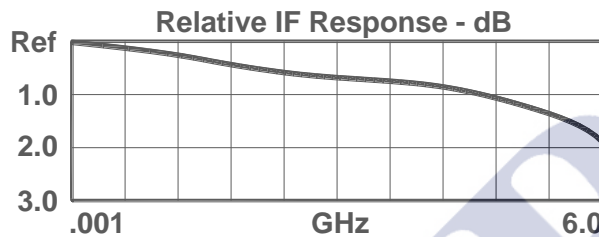
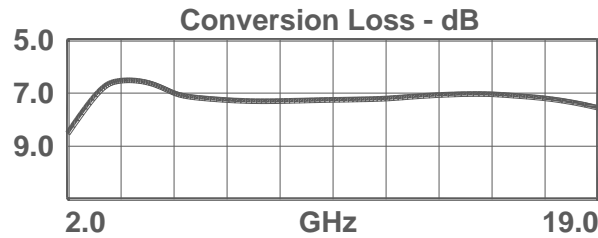
Page 2

M2-0219

LO/RF 2.0 to 19.0 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. Catalog mixer circuits are continually improved. Configuration control requires custom mixer model numbers and specifications.

Marki Microwave reserves the right to make changes to the product(s) or information contained herein without notice. Marki Microwave makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does Marki Microwave assume any liability whatsoever arising out of the use or application of any product.

© Marki Microwave, Inc.



215 Vineyard Court, Morgan Hill, CA 95037 | Ph: 408.778.4200 | Fax 408.778.4300 | info@markimicrowave.com

www.markimicrowave.com