



## TRIPLE-BALANCED MIXERS

M2-0218

### Features

- ¾ LO/RF 2.0 to 18.0 GHz
- ¾ IF .001 to 6.0 GHz
- ¾ 7.5 dB Typical Conversion Loss
- ¾ 20 dB Typical LO to RF Isolation
- ¾ Ultra-Broadband RF, LO, and IF



### Electrical Specifications

Parameter	LO (GHz)	RF (GHz)	IF (GHz)	Min	Typ	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	2.0-18.0	2.0-18.0	.001-2.0		7.5	9.5	
	2.0-18.0	2.0-18.0	2.0-4.0		8.0	10.0	
	2.0-18.0	2.0-18.0	4.0-6.0		8.5	11.0	
Isolation (dB)	2.0-18.0	2.0-18.0		15	20		
	4.0-18.0	4.0-18.0		18	23		
	2.0-18.0	2.0-18.0			25		
	2.0-18.0	2.0-18.0			20		
Input 1 dB Compression (dBm)	2.0-18.0	2.0-18.0			+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)	2.0-18.0	2.0-18.0			+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) <sup>1,2</sup>	Example
A, B, C, E, ZZ, P	M2-0218 <u>L</u> <u>A</u>

<sup>1</sup>Connectorized test fixtures available for most carrier and surface mount packages. Consult factory.

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

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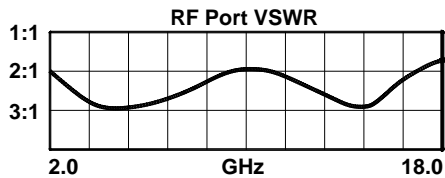
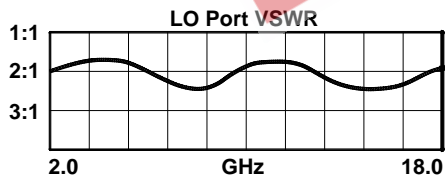
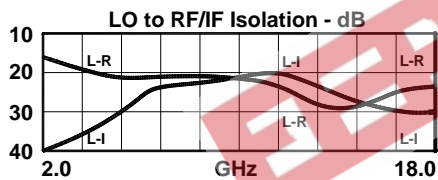
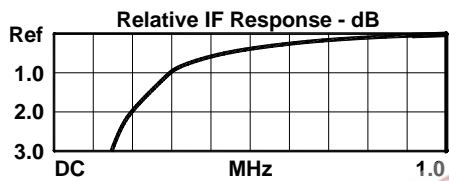
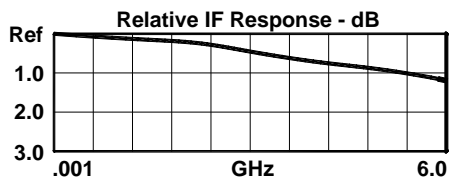
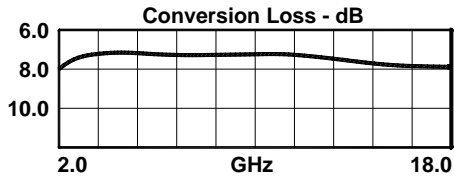


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LO/RF 2.0 to 18.0 GHz  
IF .001 to 6.0 GHz

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



For additional information, please visit the following sections on the Marki Microwave website.

- [Data Sheet Notes](#)
- [Application Notes](#)
- [Package Outlines](#)
- [MTBF Calculations](#)
- [Terms & Conditions of Sale](#)
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