

## DOUBLE-BALANCED MIXERS

M1-0614

### Features

- ¾ LO/RF 6.0 to 14.0 GHz
- ¾ IF DC to 4.0 GHz
- ¾ 5.0 dB Typical Conversion Loss
- ¾ 35 dB Typical LO to RF Isolation
- ¾ Broadband RF and LO



### Electrical Specifications

Parameter	LO (GHz)	RF (GHz)	IF (GHz)	Min	Typ	Max	Diode Option (dBm)
Conversion Loss (dB)	6.0-14.0	6.0-14.0	DC-2.0		5.0	7.0	
	6.0-14.0	6.0-14.0	2.0-4.0		6.5	8.0	
Isolation (dB)				25			
	LO-RF	6.0-14.0	6.0-14.0		35		
	LO-IF	6.0-14.0	6.0-14.0		30		
	RF-IF	6.0-14.0	6.0-14.0		25		
Input 1 dB Compression (dBm)	6.0-14.0	6.0-14.0			+2		L (+7 to +10)
					+5		M (+10 to +13)
					+8		N (+13 to +16)
					+11		H (+16 to +19)
					+14		S (+19 to +22)
Input Two-Tone Third Order Intercept Point (dBm)	6.0-14.0	6.0-14.0			+12		L (+7 to +10)
					+15		M (+10 to +13)
					+18		N (+13 to +16)
					+21		H (+16 to +19)
					+24		S (+19 to +22)

### Part Number Options

<i>Please specify diode level and package style by adding to model number.</i>	
Package Style(s) <sup>1,2</sup>	Example
A, B, C, E, EZ, P	M1-0614 <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 1-port configuration by adding -1 or -2 suffix to model number. Default is -2 configuration when not specified.

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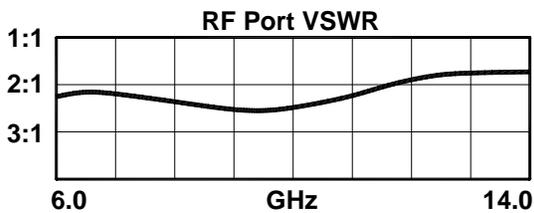
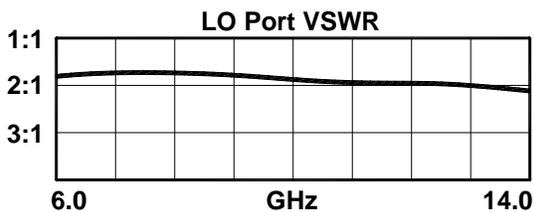
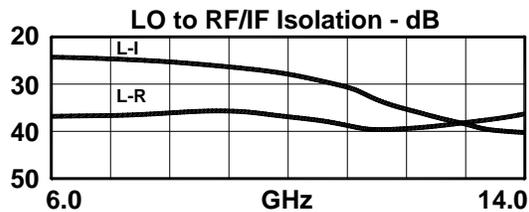
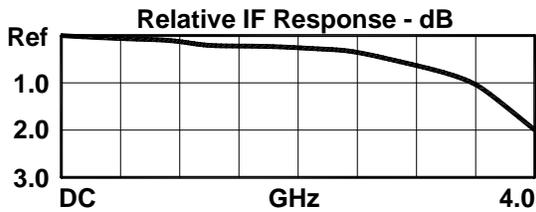
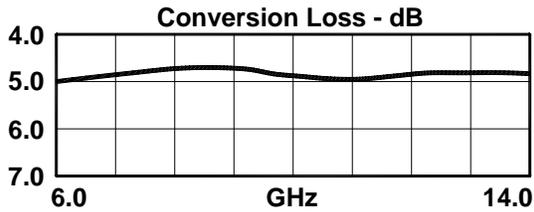
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LO/RF 6.0 to 14.0 GHz  
IF DC to 4.0 GHz

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](#) ▶
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