



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 2.0-18.0	2.0-18.0 2.0-18.0 2.0-18.0	.001-2.0 2.0-4.0 4.0-6.0		7.5 8.0 8.5	9.5 10.0 11.0	
Isolation (dB)							
LO-RF	2.0-18.0	2.0-18.0		15	20		
LO-RF	4.0-18.0	4.0-18.0		18	23		
LO-IF	2.0-18.0	2.0-18.0			25		
RF-IF	2.0-18.0	2.0-18.0			20		
Input 1 dB Compression (dBm)	2.0-18.0	2.0-18.0			+5 +8 +11 +14		L (+10 to +13) M (+13 to +16) N (+16 to +19) H (+19 to +22)
Input Two-Tone Third Order Intercept Point (dBm)	2.0-18.0	2.0-18.0			+15 +18 +21 +24		L (+10 to +13) M (+13 to +16) N (+16 to +19) H (+19 to +22)

Part Number Options

Please specify diode level and package style by adding to model number.	
Package Style(s) ^{1,2}	Example
A, B, C, E, ZZ, P	M2-0218 <u>L</u> <u>A</u>

¹Connectorized test fixtures available for most carrier and surface mount 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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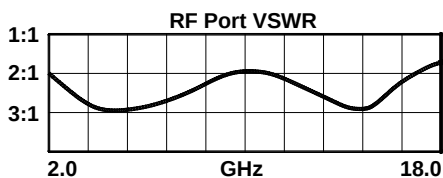
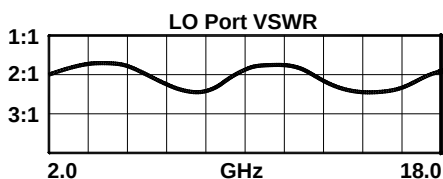
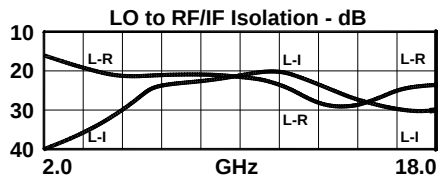
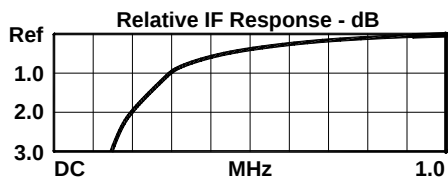
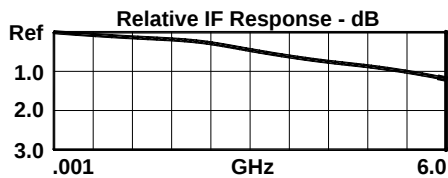
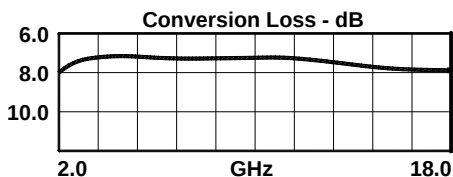
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IF .001 to 6.0 GHz

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](#)

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