

DOUBLE-BALANCED MIXERS

M1-0218



Features

- LO/RF 2.0 to 18.0 GHz
- IF DC to 2.0 GHz
- 7.0 dB Typical Conversion Loss
- 35 dB Typical LO to RF Isolation
- Ultra-Broadband LO and RF

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

Parameter	LO (GHz)	RF (GHz)	IF (GHz)	Min	Тур	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	2.0-18.0	2.0-18.0	DC-1.0		7.0	9.0	
	2.0-18.0	2.0-18.0	1.0-2.0		8.0	10.0	
Isolation (dB)							
LO-RF	2.0-18.0	2.0-18.0		25	35		
LO-IF	2.0-18.0	2.0-18.0			25		
RF-IF	2.0-18.0	2.0-18.0			25		
Input 1 dB Compression (dBm)	2.0-18.0	2.0-18.0			+3		L (+10 to +13)
					+6		M (+13 to +16)
					+9		N (+16 to +19)
Input Two-Tone Third Order	2.0-18.0	2.0-18.0			+13		L (+10 to +13)
Intercept Point (dBm)					+16		M (+13 to +16)
					+19		N (+16 to +19)

Part Number Options

Please specify diode level by adding to model number.					
Package Styles		Example			
Connectorized	<u>A</u>	M1-0218LA			

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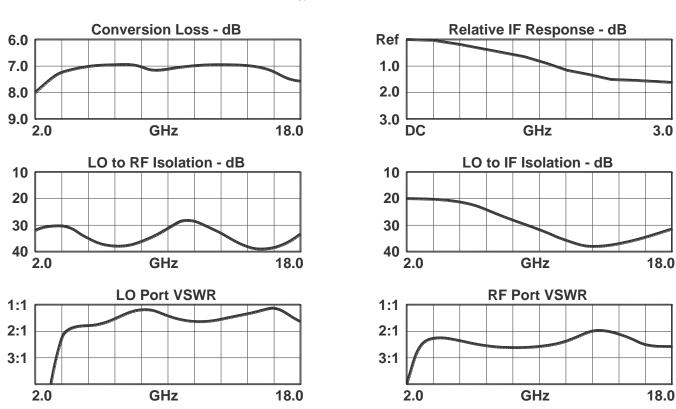
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Page 2

LO/RF 2.0 to 18.0 GHz IF DC to 2.0 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 +23 dBm at +25°C, derated linearly to +20 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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