

DOUBLE-BALANCED MIXERS

M4-0150



Features

- LO/RF 1.0 to 50.0 GHz
- IF DC to 400 MHz
- 9.0 dB Typical Conversion Loss
- 27 dB Typical LO to RF Isolation
- Super-Broadband RF and LO



Parameter	LO (GHz)	RF (GHz)	IF (MHz)	Min	Тур	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	1.0-50.0	1.0-50.0	DC-250		9.0	14.0	
	1.0-50.0	1.0-50.0	DC-400		10.0	15.0	
Isolation (dB)							
LO-RF	1.0-50.0	1.0-50.0			27		
LO-IF	1.0-50.0	1.0-50.0			27		
RF-IF	1.0-50.0	1.0-50.0			25		
Input 1 dB Compression (dBm)	1.0-50.0	1.0-50.0			+3		L (+10 to +13)
					+9		H (+16 to +19)
Input Two-Tone Third Order	1.0-50.0	1.0-50.0			+13		L (+10 to +13)
Intercept Point (dBm)	-				+19		H (+16 to +19)

Part Number Options

Please specify diode level and package style by adding to model number.				
Package Style(s)	Example			
<u>KV</u>	M4-0150 <u>L</u> <u>KV</u>			

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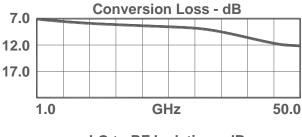
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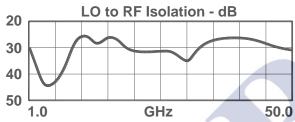
M4-0150

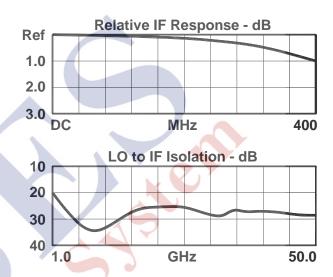
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LO/RF 1.0 to 50.0 GHz IF DC to 400 MHz

Typical Performance







DATA SHEET NOTES:

- 1. Mixer Conversion Loss Plot is done with an IF frequency of 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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