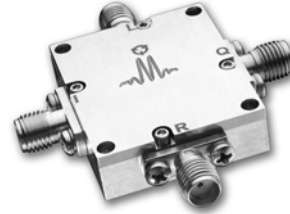


IMAGE REJECT DOUBLE-BALANCED MIXERS

IR-1545



Features

- LO/RF 1.5 to 4.5 GHz
- IF 50 to 90 MHz
- 5.5 dB Typical Conversion Loss
- 43 dB Typical LO to RF Isolation
- 25 dB Typical Image Rejection
- Open Carrier or Connectorized

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

Parameter	LO (GHz)	RF (GHz)	IF (MHz)	Min	Typ	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	1.5-4.5	1.5-4.5	50-90		5.5	7.0	
Image Rejection (dB)	1.8-4.5	1.8-4.5	50-90	18	25		
	1.5-4.5	1.5-4.5	50-90	16	25		
Isolation (dB)							
LO-RF	1.5-4.5	1.5-4.5		37	43		
LO-IF	1.5-4.5	1.5-4.5			30		
RF-IF	1.5-4.5	1.5-4.5			30		
Input 1 dB Compression (dBm)	1.5-4.5	1.5-4.5			+4 +6		L (+10 to +13) M (+13 to +16)
Input Two-Tone Third Order Intercept Point (dBm)	1.5-4.5	1.5-4.5			+14 +16		L (+10 to +13) M (+13 to +16)

Part Number Options

<i>Please specify diode level and package style by adding to model number.</i>	
Package Style(s) ^{1,2}	Example
M , MP	IR-1545 <u>L</u> <u>M-2</u>

¹Connectorized test fixtures available for most carrier and surface mount packages. Consult factory.

²-1 = FL < FR; -2 = FL > FR. Higher LO drive levels are available. Many other IF bands are available.

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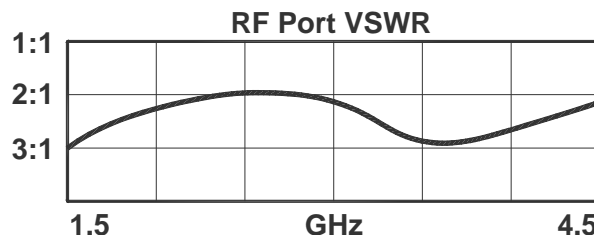
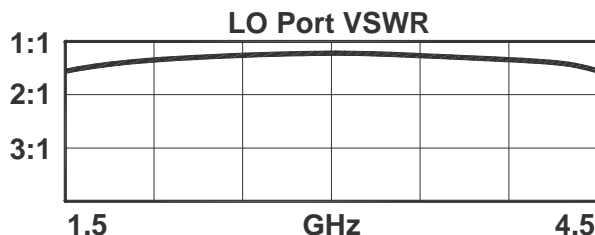
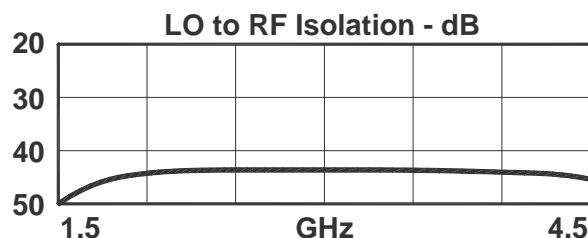
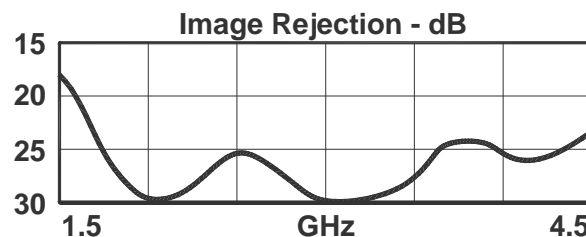
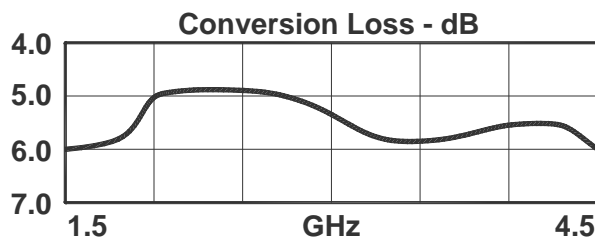
IMAGE REJECT DOUBLE-BALANCED MIXERS

IR-1545

Page 2

LO/RF 1.5 to 4.5 GHz
IF 50 to 90 MHz

Typical Performance



DATA SHEET NOTES:

1. Mixer Conversion Loss Plot IF frequency is 70 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 +26 dBm at +25°C, derated linearly to +23 dBm at +100°C.
6. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.
7. Catalog mixer circuits are continually improved. Configuration control requires custom mixer model numbers and specifications.

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