

Level 7

2-500MHz Frequency Mixer

Features

- LO/RF: 2-500MHz
- IF: DC-500MHz
- LO Level: +7dBm
- Conversion Loss: 6dB
- RF Input: Up to +1dBm
- IP3: +16dBm
- SMA Connector

Picture



Description

MXR-5E is a passive double balanced mixer operates with LO drive level range of +4dBm to +10dBm.

Electrical Specifications @ +25 °C, LO= +7dBm, IF=30MHz, 50Ω

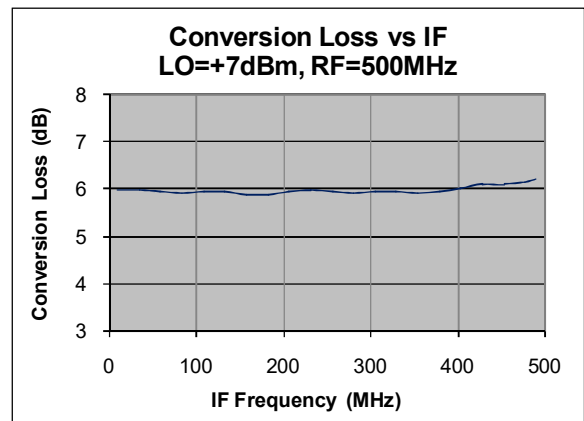
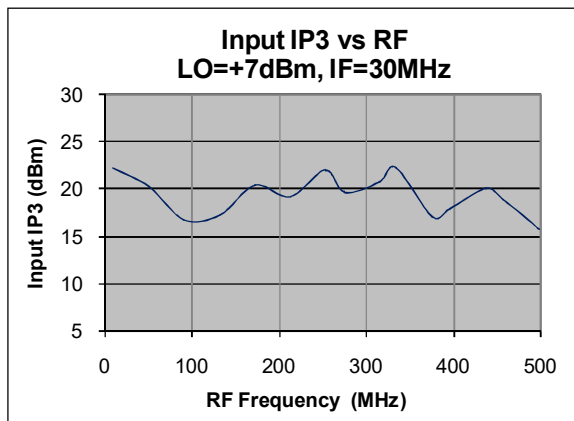
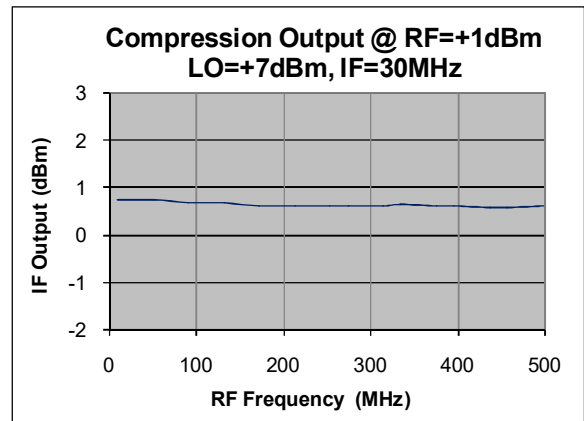
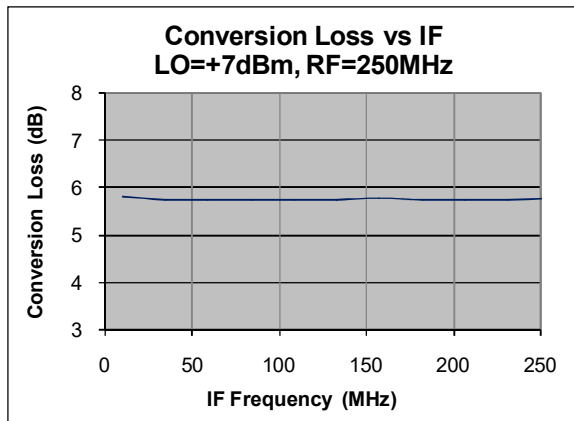
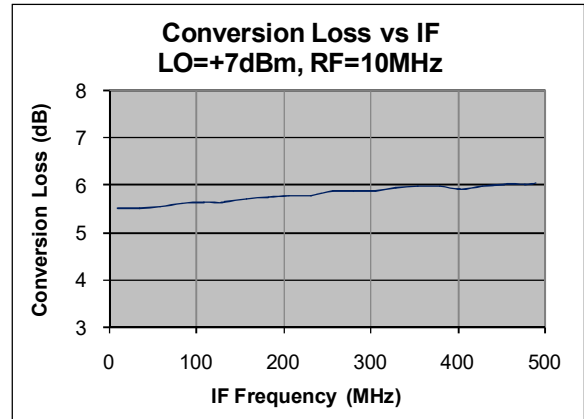
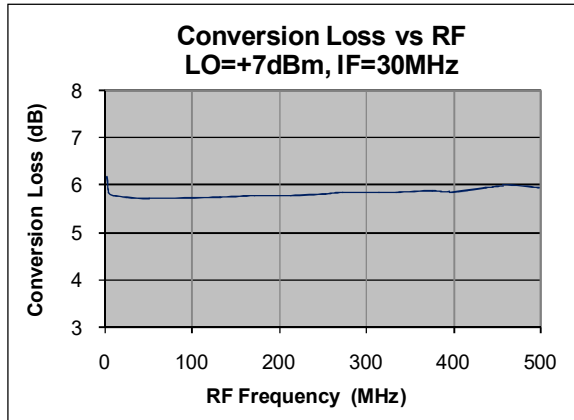
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range				
LO/RF	MHz	2		500
IF	MHz	DC		500
Conversion Loss	dB		6.0	8.0
LO-RF Isolation				
2-20MHz	dB	50	55	
20-250MHz	dB	30	45	
250-500MHz	dB	25	40	
LO-IF Isolation				
2-20MHz	dB	45	55	
20-250MHz	dB	25	45	
250-500MHz	dB	20	30	
RF Input Power up to	dBm		+1	
Input IP3 (Center Band)	dBm		+16	

Unless otherwise noted, all measurements performed as a downconverter

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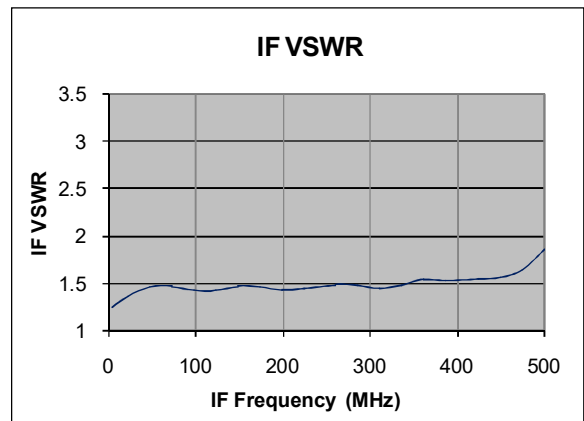
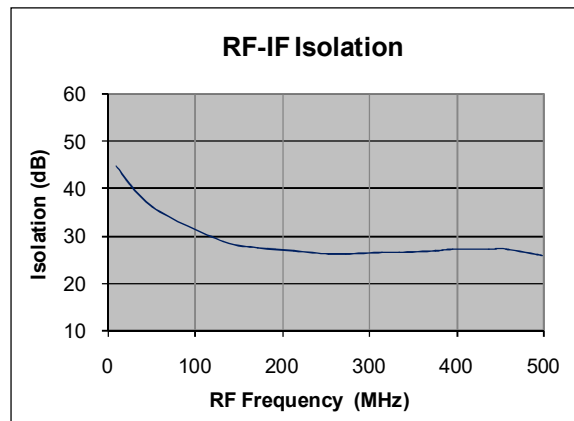
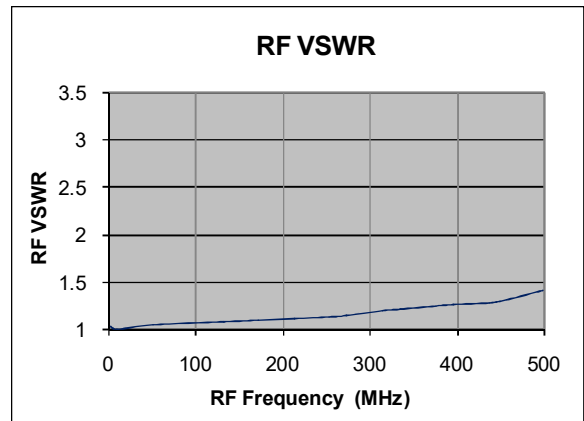
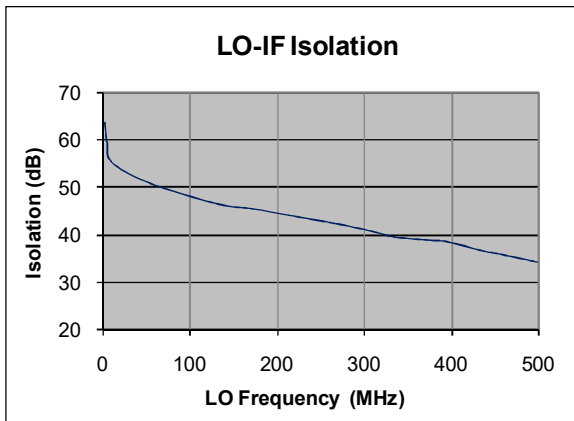
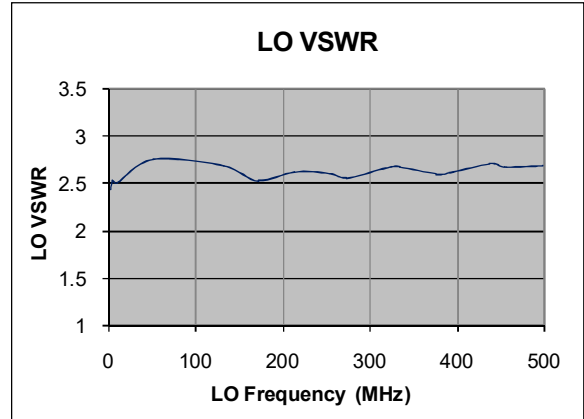
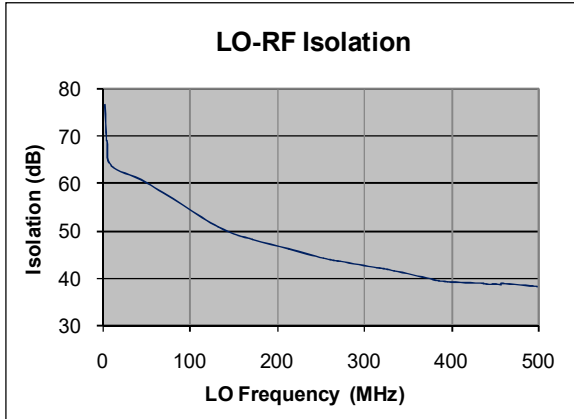
Typical Performance @ +25 °C



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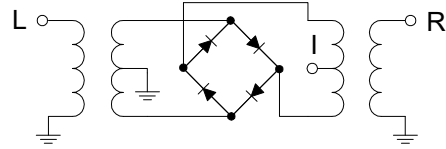
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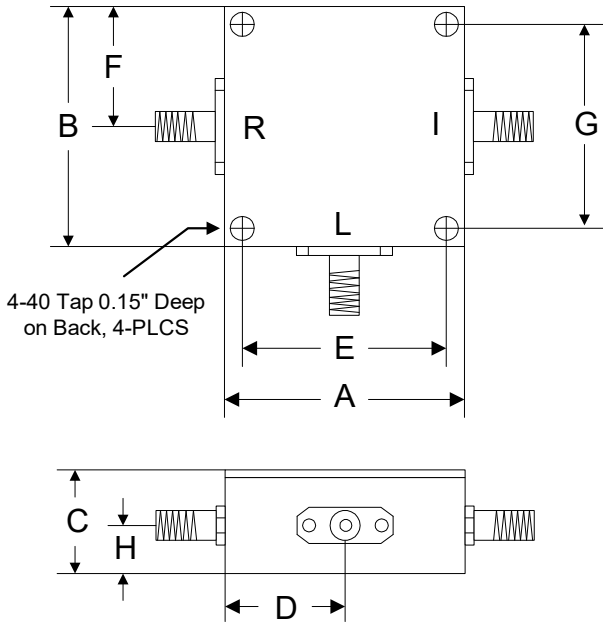
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	+17dBm
Peak IF Current	40mA
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

Schematic



Outline



	A	B	C	D	E	F	G	H
Inch	1.250	1.250	0.563	0.625	1.000	0.625	1.000	0.250
mm	31.75	31.75	14.29	15.88	25.40	15.88	25.40	6.35