

## Level 13

## 4.5-9.0GHz Frequency Mixer

### Features

- LO/RF: 4.5 – 9.0GHz
- IF: DC – 2.5GHz
- LO Level: +13dBm
- Conversion Loss: 8.5dB
- RF Input: Up to +10dBm
- IP3: +21dBm
- SMA Connector

### Picture



### Description

MXR-90M is a passive double balanced mixer operates with LO drive level range of +9dBm to +17dBm.

### Electrical Specifications @ +25 °C, LO= +13dBm

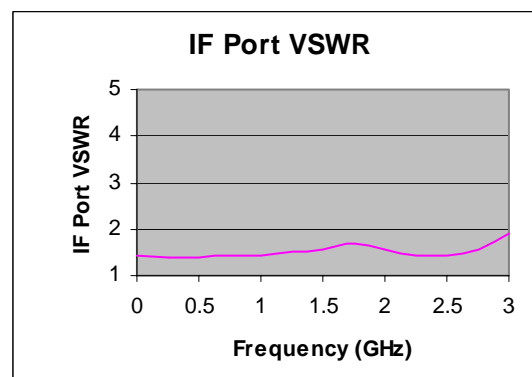
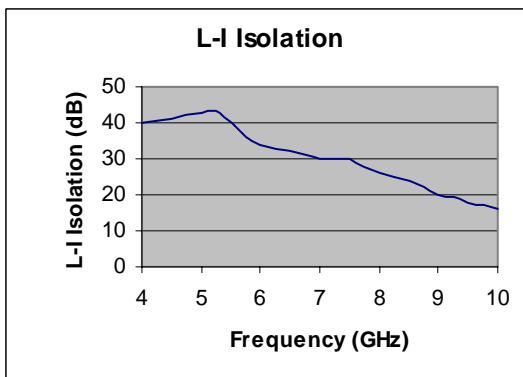
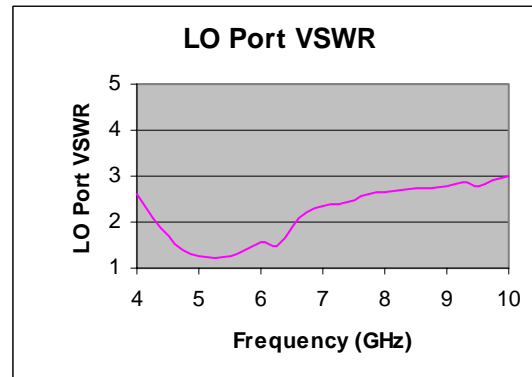
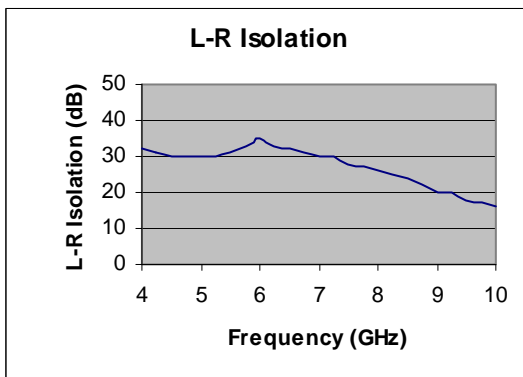
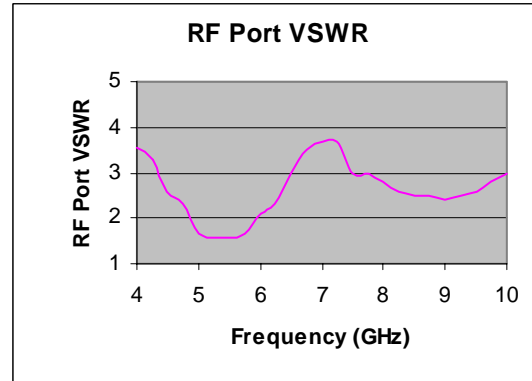
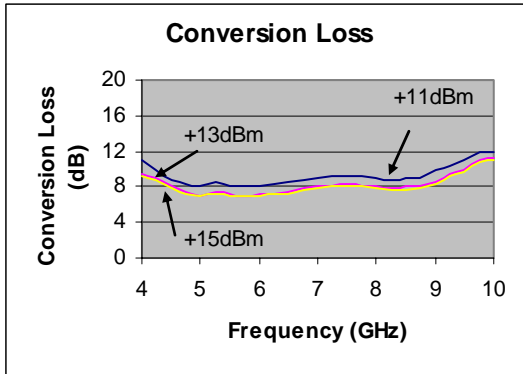
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range				
LO/RF	GHz	4.5		9.0
IF	GHz	DC		2.5
Conversion Loss	dB		8.5	10
LO-RF Isolation				
4.5 – 9.0 GHz	dB	17	25	
LO-IF Isolation				
4.5 – 9.0GHz	dB	17	25	
RF Input Power up to	dBm	+7	+10	
IP3 (Center Band)	dBm	+15	+21	

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### Typical Performance @ +25 °C

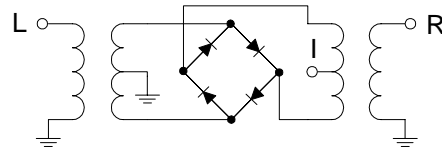
LO = +13dBm



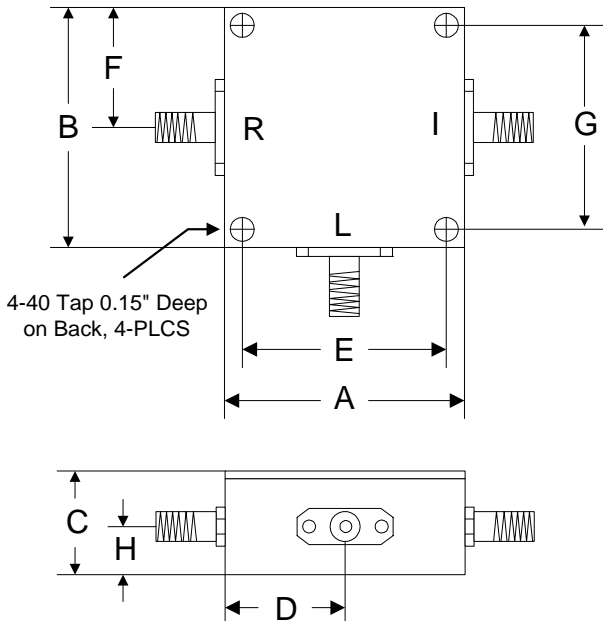
### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF/IF Power	+13dBm
LO Power	+27dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °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