

Level 13

5-4200MHz Frequency Mixer

Features

- LO/RF: 5-4200MHz
- IF: 5-3500MHz
- LO Level: +13dBm
- Conversion Loss: 9.0dB
- RF Input: Up to +9dBm
- IP3: +17dBm
- SMA Connector

Picture



Description

MXR-42M is a passive double balanced mixer operates with LO drive level range of +10dBm to +16dBm.

Electrical Specifications @ +25 °C, LO= +13dBm, IF=30MHz, 50Ω

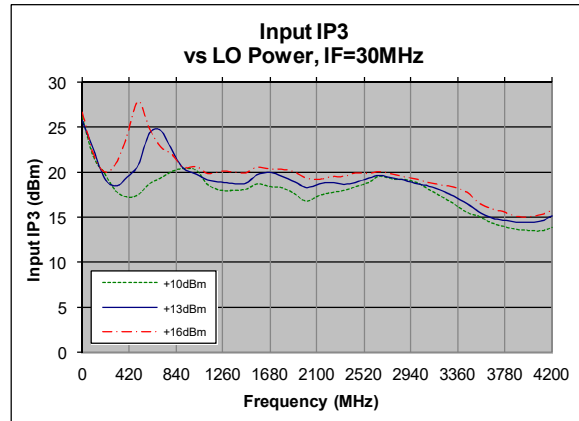
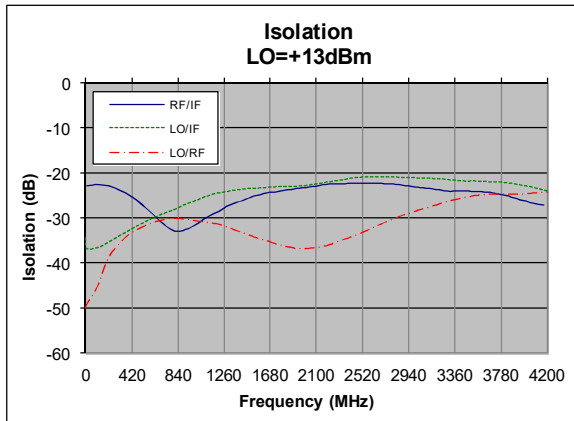
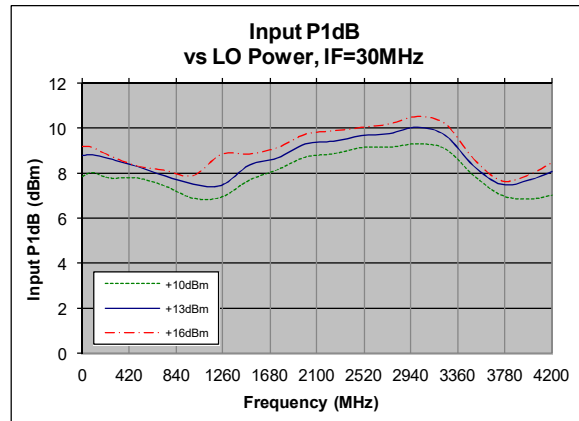
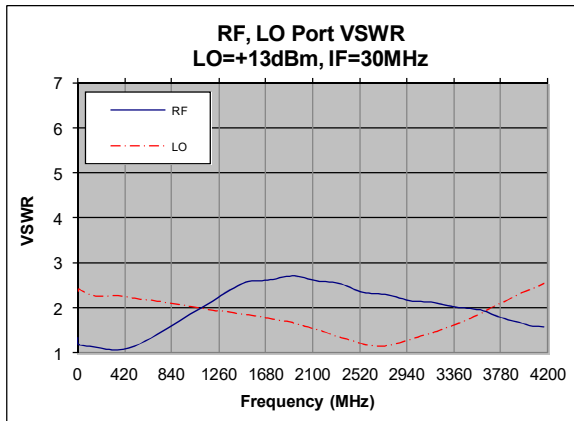
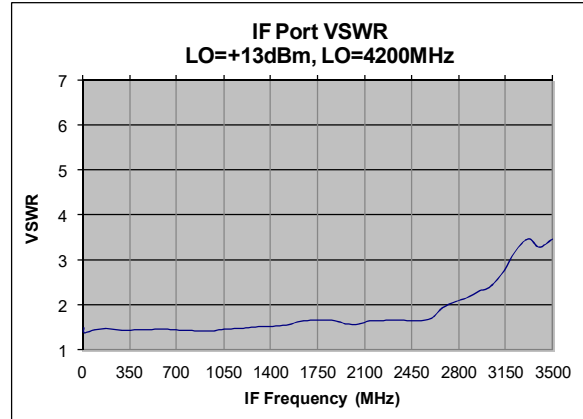
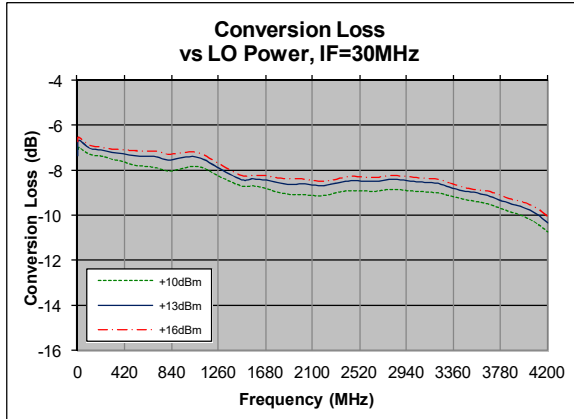
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range				
LO/RF	MHz	5		4200
IF	MHz	5		3500
Conversion Loss	dB		9.0	11.8
LO-RF Isolation				
5-50 MHz	dB	28	47	
50-2100MHz	dB	20	29	
2100-4200MHz	dB	15	30	
LO-IF Isolation				
5-50MHz	dB	23	34	
50-2100MHz	dB	17	26	
2100-4200MHz	dB	17	23	
RF Input Power up to	dBm		+9	
IP3 (Center Band)	dBm		+17	

Unless otherwise noted, all measurements performed as a downconverter.

Level 13

5-4200MHz Frequency Mixer

Typical Performance @ +25 °C



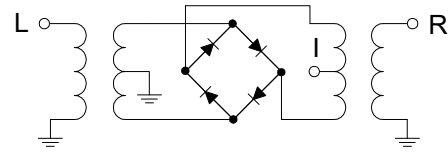
Level 13

5-4200MHz Frequency Mixer

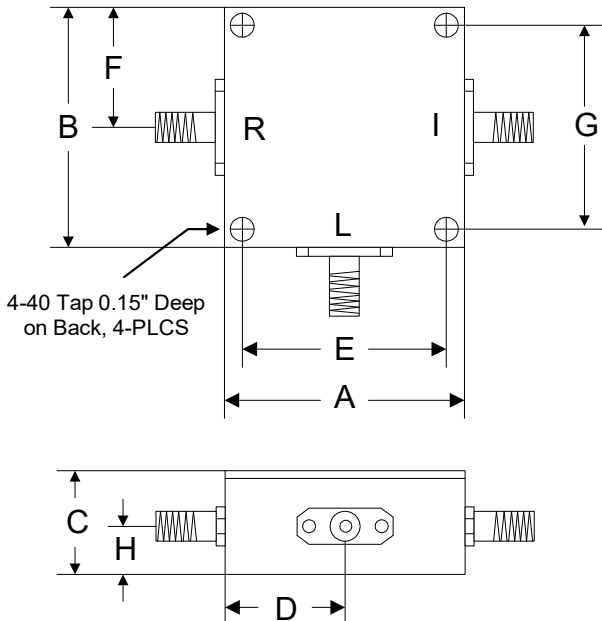
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF/IF Power	+23dBm
LO Power	+23dBm
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