

Level 13

10-1200MHz Frequency Mixer

Features

- LO/RF: 10-1200MHz
- IF: DC-1200MHz
- LO Level: +13dBm
- Conversion Loss: 8.0dB
- RF Input: Up to +9dBm
- IP3: +22dBm
- SMA Connector

Picture



Description

MXR-12M is a passive double balanced mixer operates with LO drive level range of +10dBm to +16dBm.

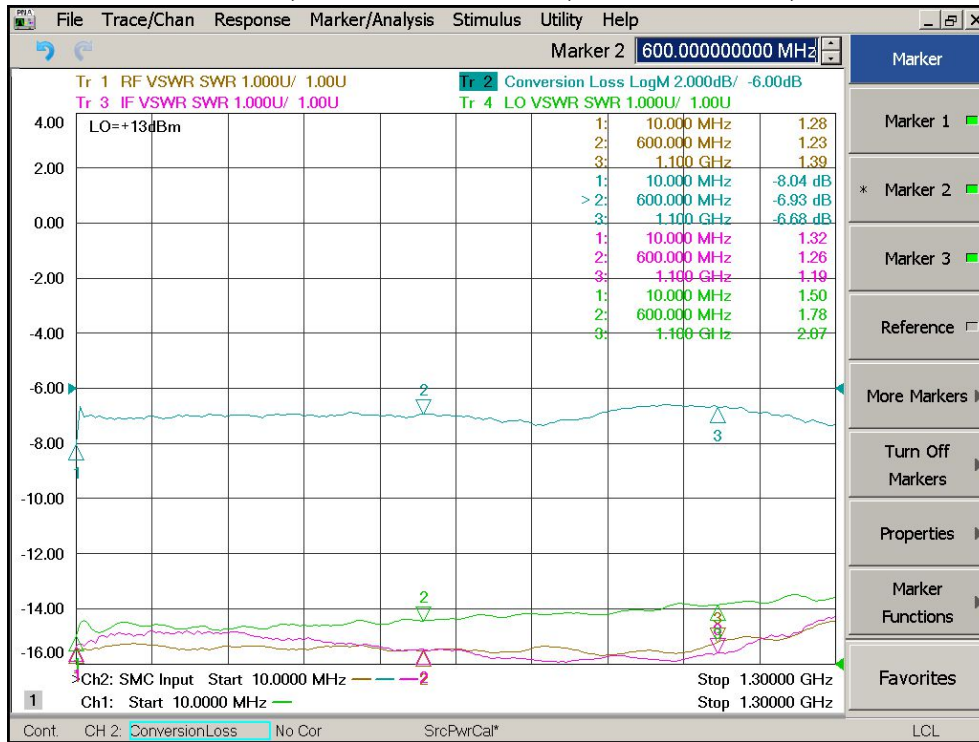
Electrical Specifications @ +25 °C, IF=10MHz, LO= +13dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range				
LO/RF	MHz	10		1200
IF	MHz	DC		1200
Conversion Loss	dB		8.0	9.0
LO-RF Isolation				
10-100 MHz	dB	45	62	
100-600MHz	dB	32	45	
600-1200MHz	dB	26	40	
LO-IF Isolation				
10-100MHz	dB	40	68	
100-600MHz	dB	27	42	
600-1200MHz	dB	20	30	
RF VSWR			1.5:1	2.0:1
IF VSWR			1.5:1	2.0:1
RF Input Power up to	dBm	+7	+9	
IP3 (Center Band)	dBm	+19	+22	

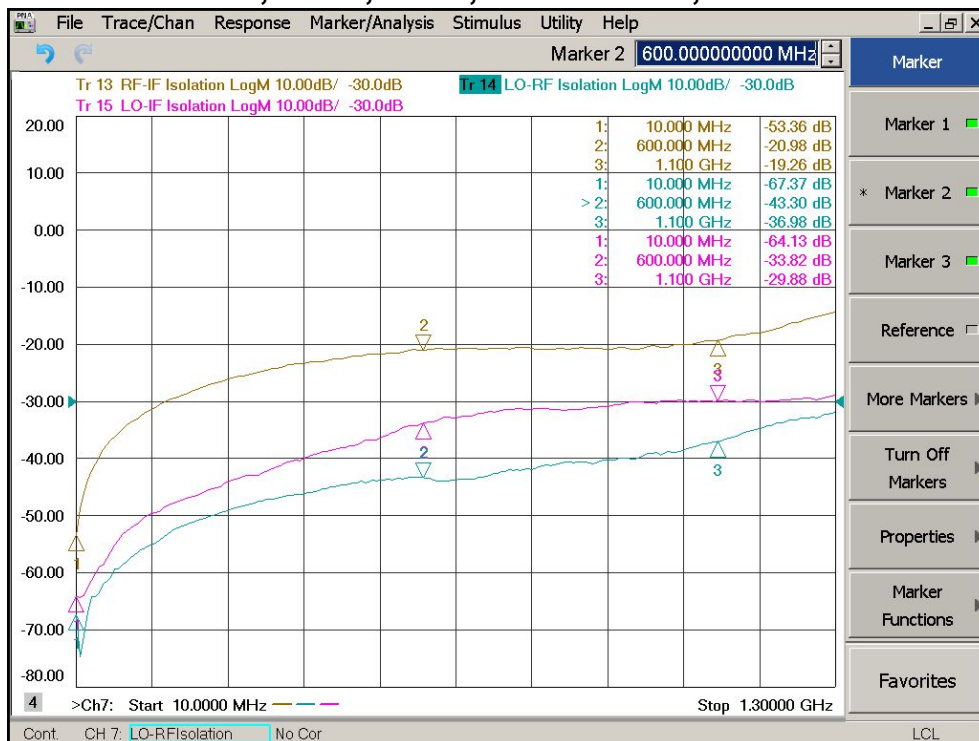
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Conversion Loss, RF/IF/LO VSWR, LO=+13dBm, IF=10MHz



Isolation LO-RF, LO-IF, RF-IF, LO=+13dBm, IF=10MHz



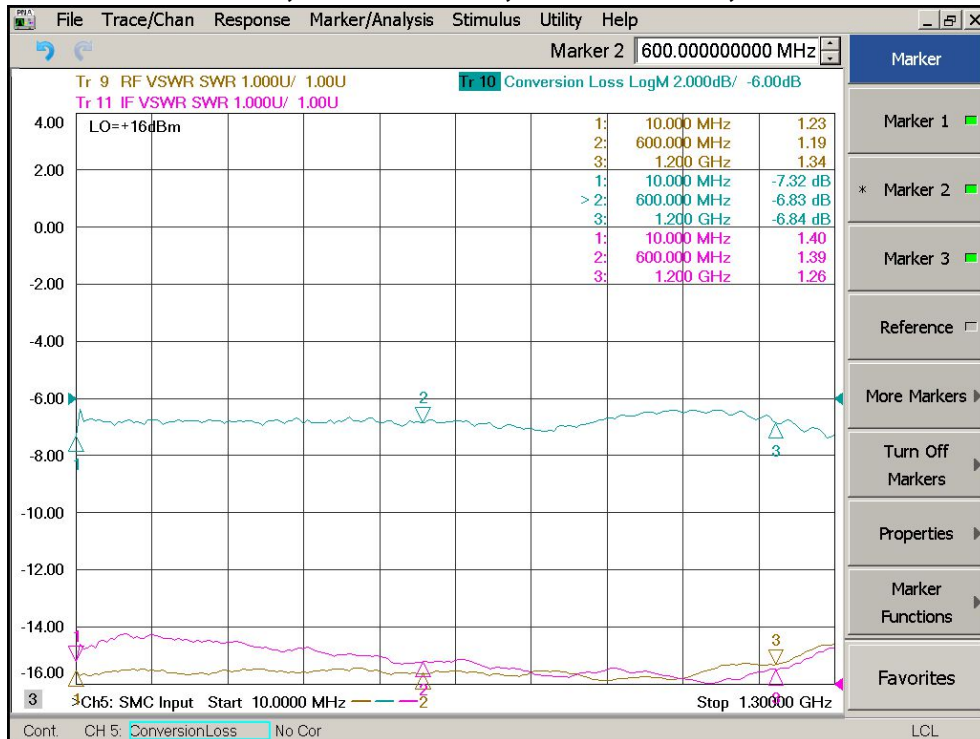
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Conversion Loss, RF/IF VSWR, LO=+10dBm, IF=10MHz



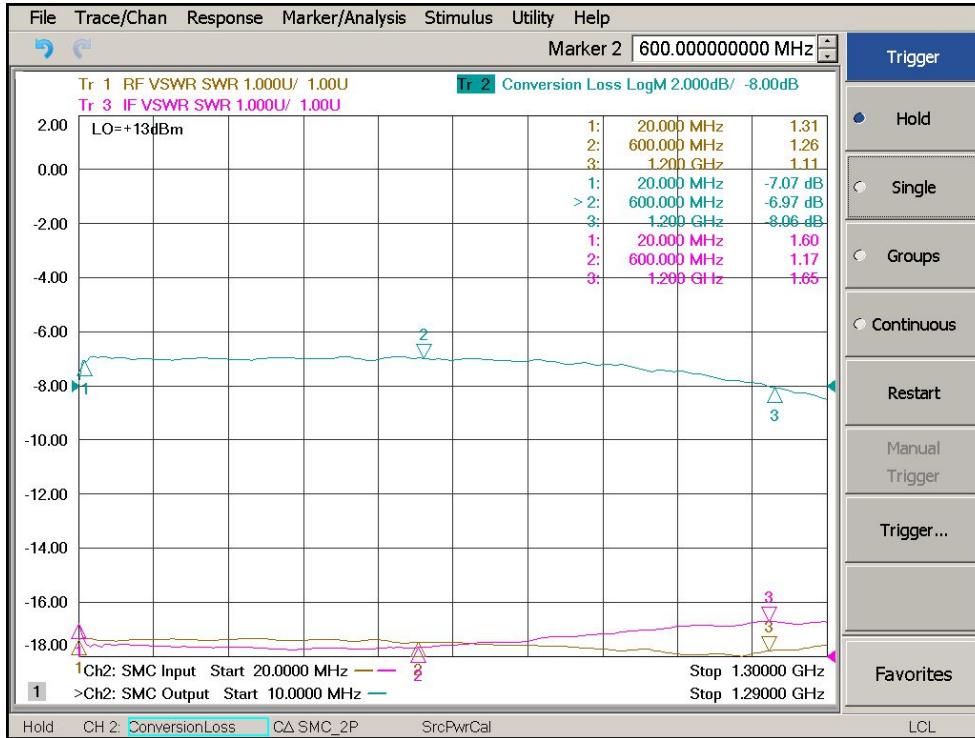
Conversion Loss, RF/IF VSWR, LO=+16dBm, IF=10MHz



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IF Bandwidth, RF/IF VSWR, LO=+13dBm, LO=10MHz



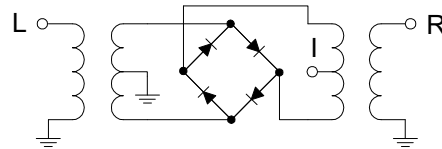
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	+23dBm
Peak IF Current	40mA
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

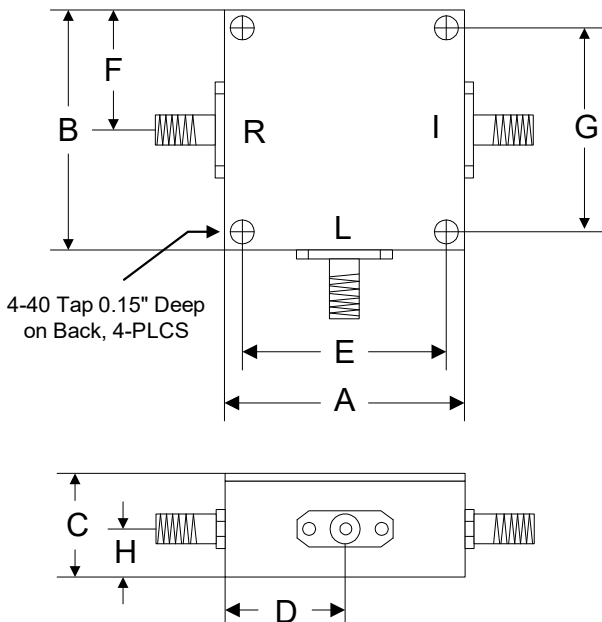
Schematic



ESD Sensitive Material



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