

Level 13

5-1000MHz Frequency Mixer

Features

- LO/RF: 5-1000MHz
- IF: DC-1000MHz
- LO Level: +13dBm
- Conversion Loss: 7.0dB
- RF Input: Up to +9dBm
- IP3: +22dBm
- SMA Connector

Picture



Description

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

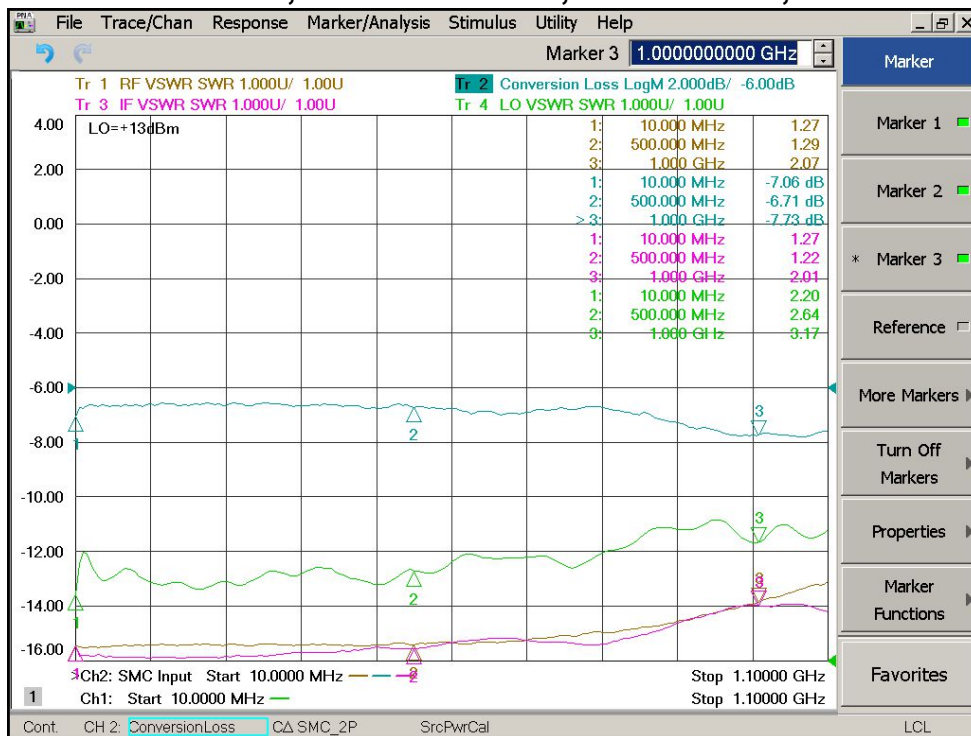
Electrical Specifications @ +25 °C, IF=10MHz, LO= +13dBm, 50 Ω

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range				
LO/RF	MHz	5		1000
IF	MHz	DC		1000
Conversion Loss	dB		7.0	9.5
LO-RF Isolation				
5-50 MHz	dB	40	55	
50-500MHz	dB	20	39	
500-1000MHz	dB	16	22	
LO-IF Isolation				
5-50MHz	dB	35	52	
50-500MHz	dB	27	30	
500-1000MHz	dB	12	18	
RF VSWR			1.5:1	2.5:1
IF VSWR			1.5:1	2.5:1
RF Input Power up to	dBm	+7	+9	
Input IP3 (Center Band)	dBm	+19	+22	

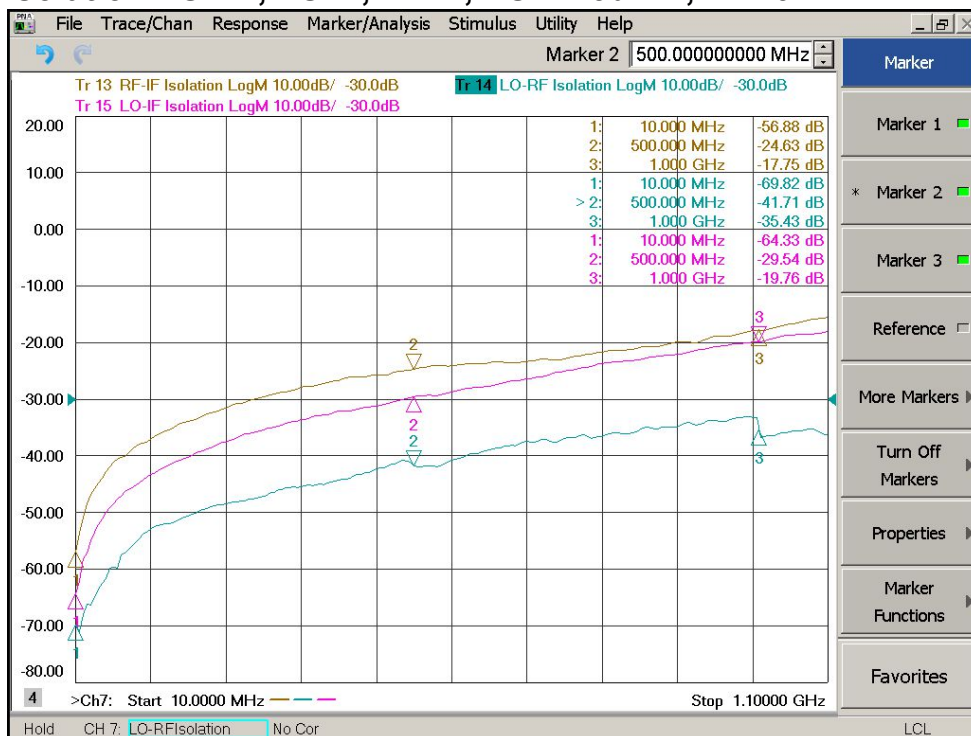
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Conversion Loss, RF/IF/LO VSWR, LO=+13dBm, IF=10MHz



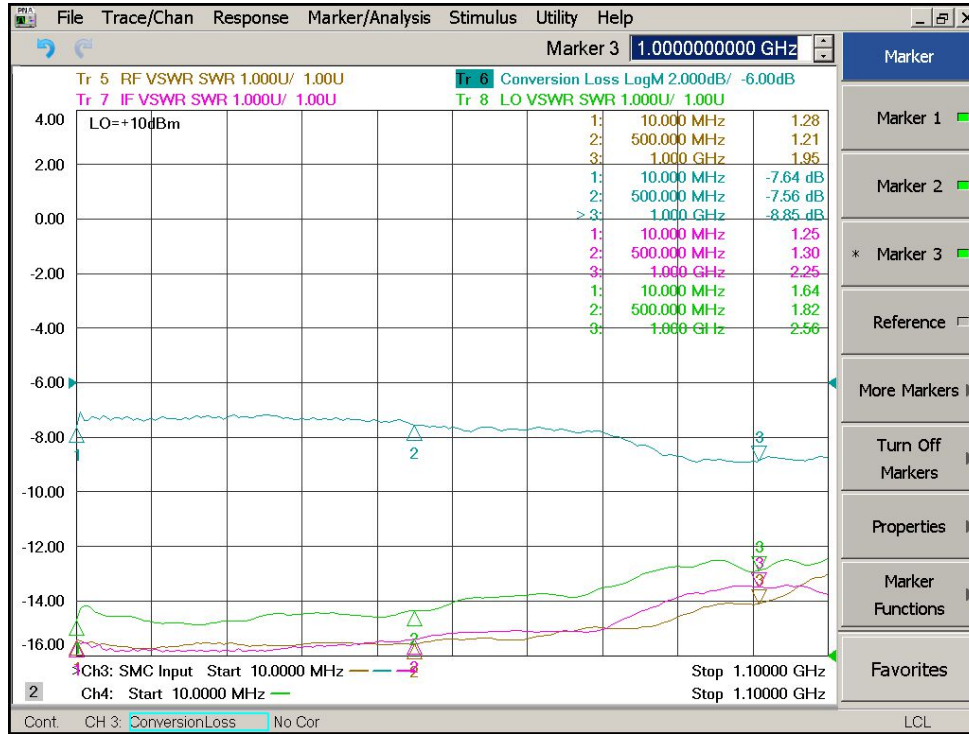
Isolation LO-RF, LO-IF, RF-IF, LO=+13dBm, IF=10MHz



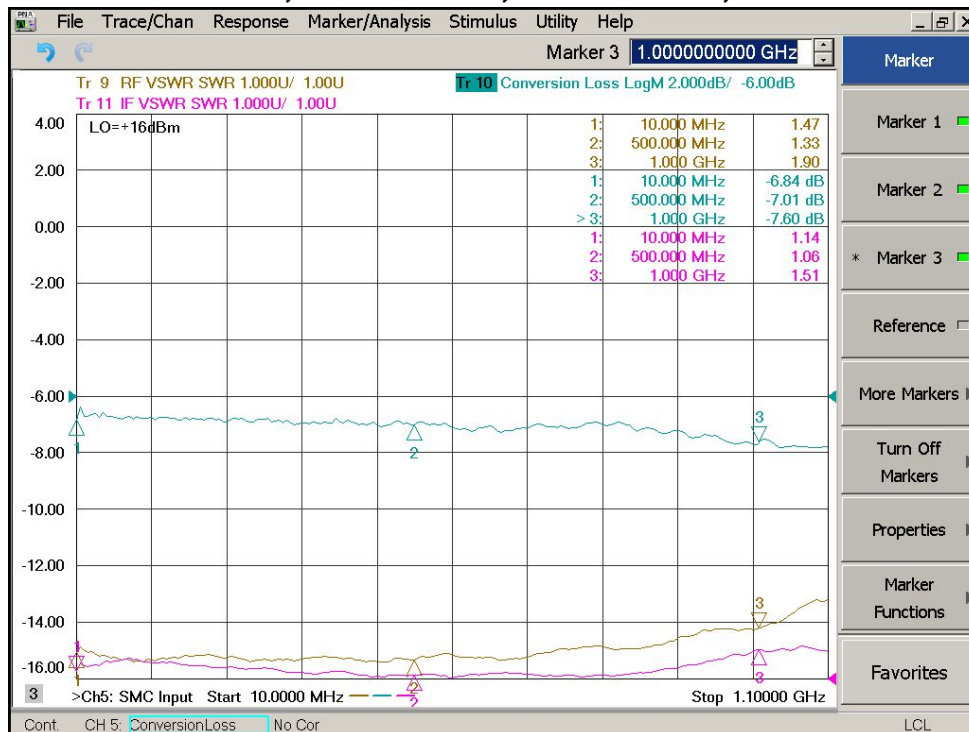
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Conversion Loss, RF/IF VSWR, LO=+10dBm, IF=10MHz



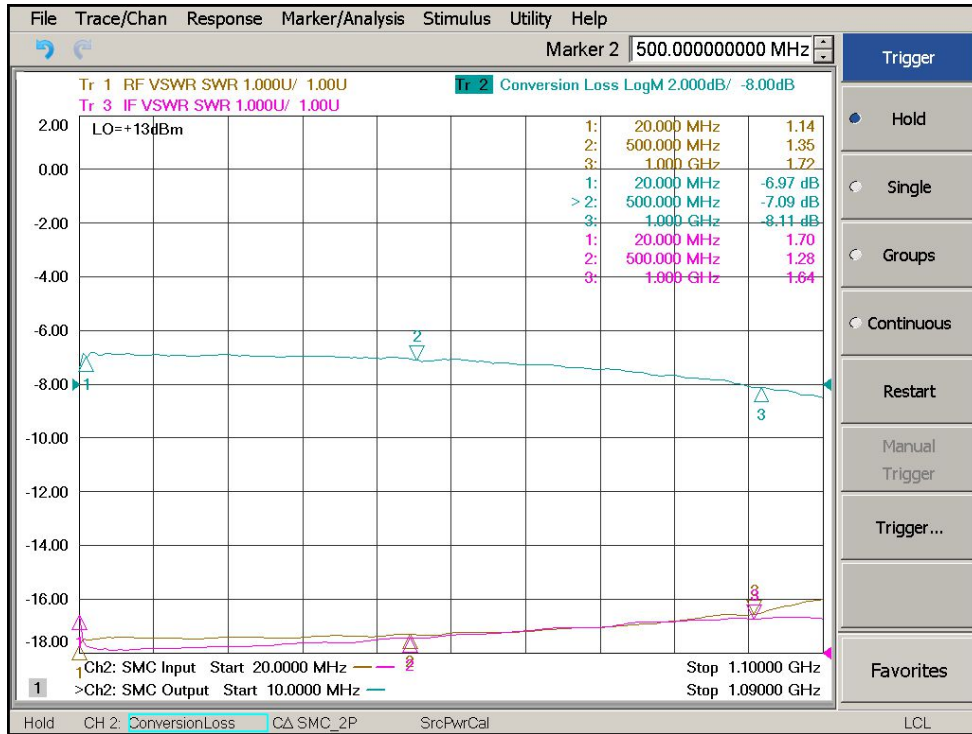
Conversion Loss, RF/IF VSWR, LO=+16dBm, IF=10MHz



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



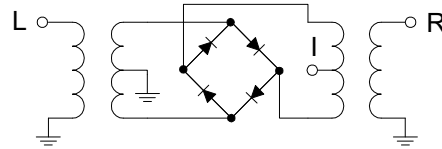
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Absolute Maximum Ratings

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

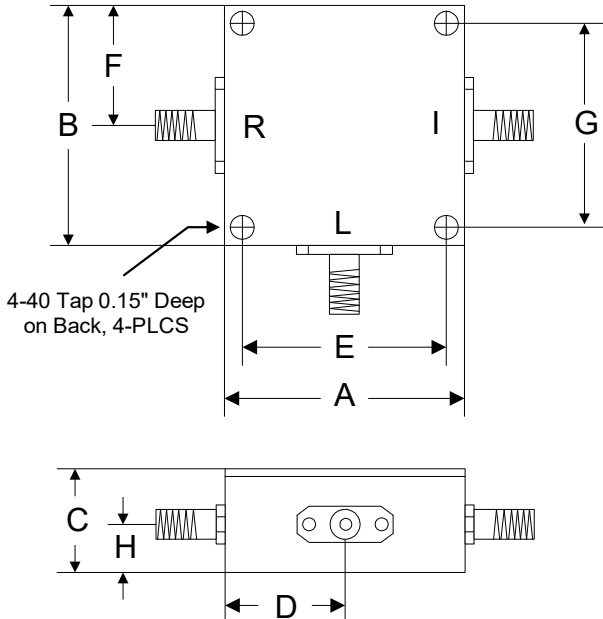
Schematic



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