

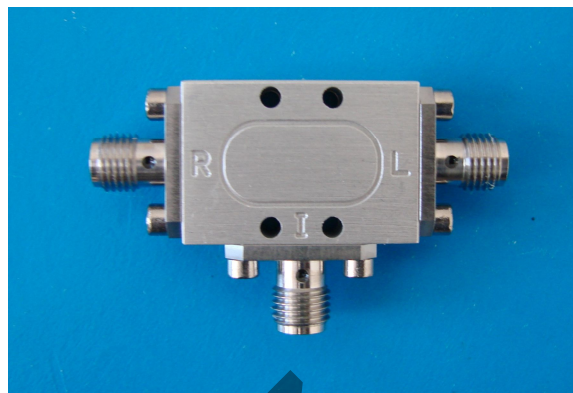
Level 15

10-40GHz Frequency Mixer

Features

- LO/RF: 10–40GHz
- IF: DC–15GHz
- LO Level: +15dBm
- Conversion Loss: 9dB typ.
- RF Input: Up to +10dBm
- Input IP3: +20dBm
- K-2.92mm Female RF/LO Ports
- SMA Female IF Port

Picture



Description

GXR-11 is a passive double balanced mixer with 10 to 40GHz at RF/LO port and DC to 15GHz at IF port. It can be used as down or up converter.

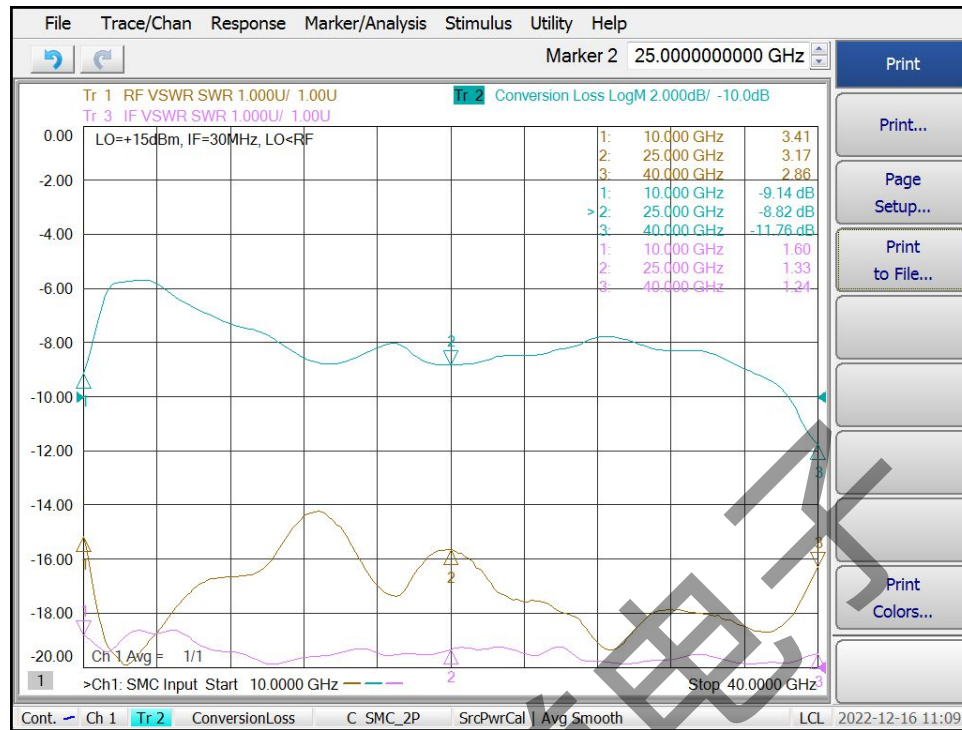
Electrical Specifications @ +25 °C, IF=30MHz, LO=+15dBm, 50 Ω

Parameter		Unit	Minimum	Typical	Maximum
Frequency Range	LO/RF	GHz	10		40
	IF	GHz	DC		15
LO Power Level		dBm		+15	
Conversion Loss	10-20GHz	dB		8	11
	20-30GHz	dB		9	12
	30-40GHz	dB		10	14
LO-RF Isolation		dB	25	35	
LO-IF Isolation		dB	10	20	
RF-IF Isolation		dB	10	25	
RF Input P _{1dB}		dBm		+10	
Input IP3		dBm		+20	

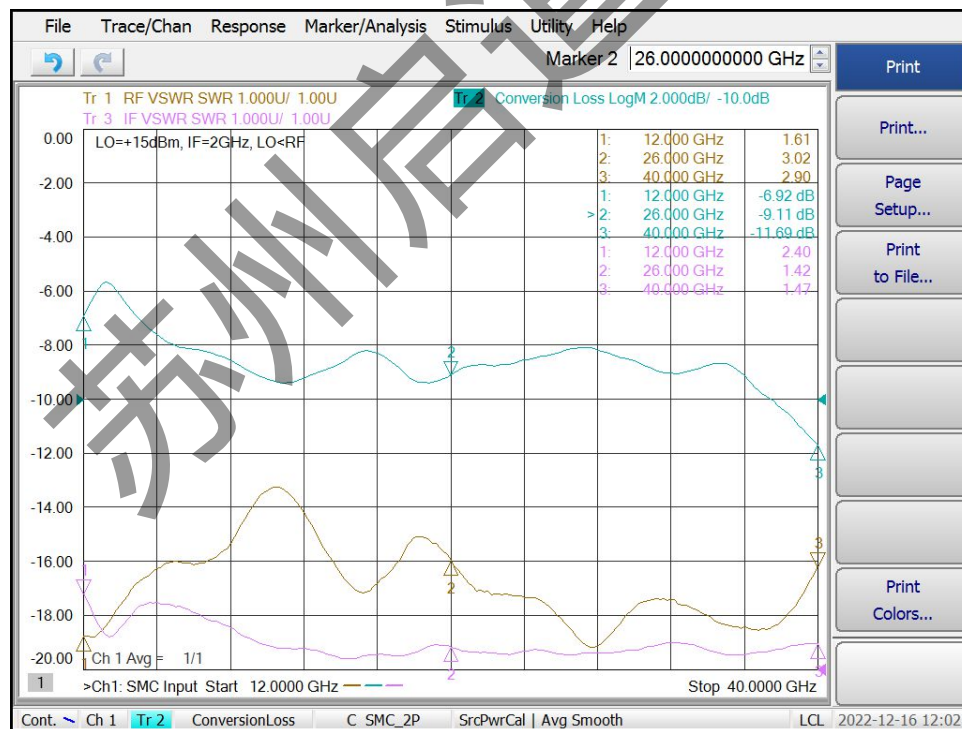
Level 15

10-40GHz Frequency Mixer

Conversion Loss, RF/IF VSWR, LO=+15dBm, IF=30MHz



Conversion Loss, RF/IF VSWR, LO=+15dBm, IF=2GHz



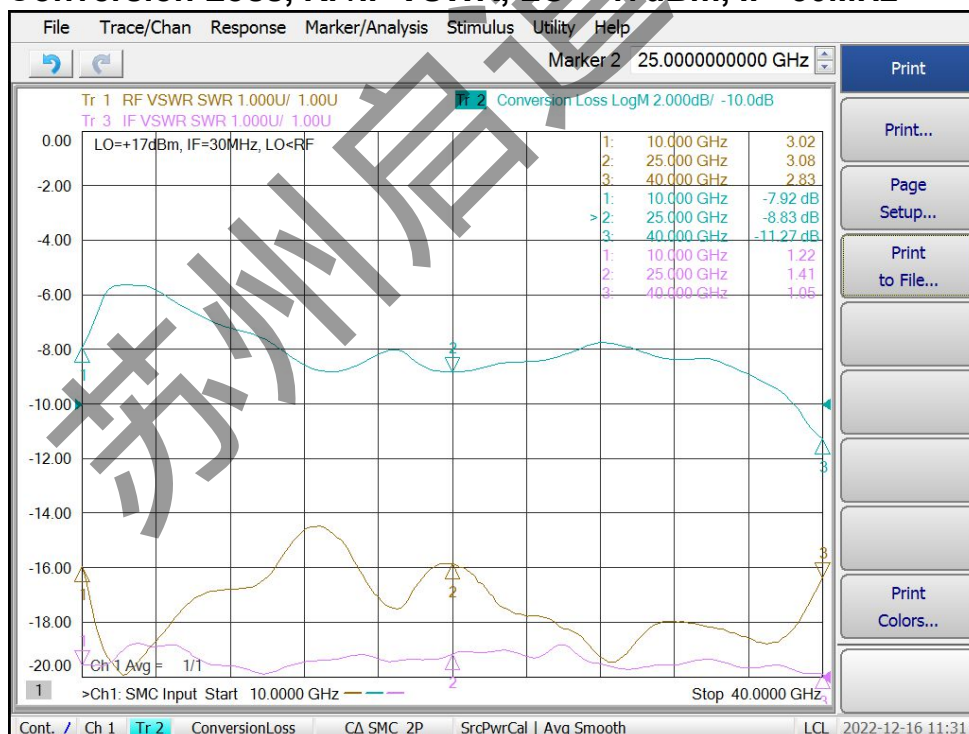
Level 15

10-40GHz Frequency Mixer

Conversion Loss, RF/IF VSWR, LO=+13dBm, IF=30MHz



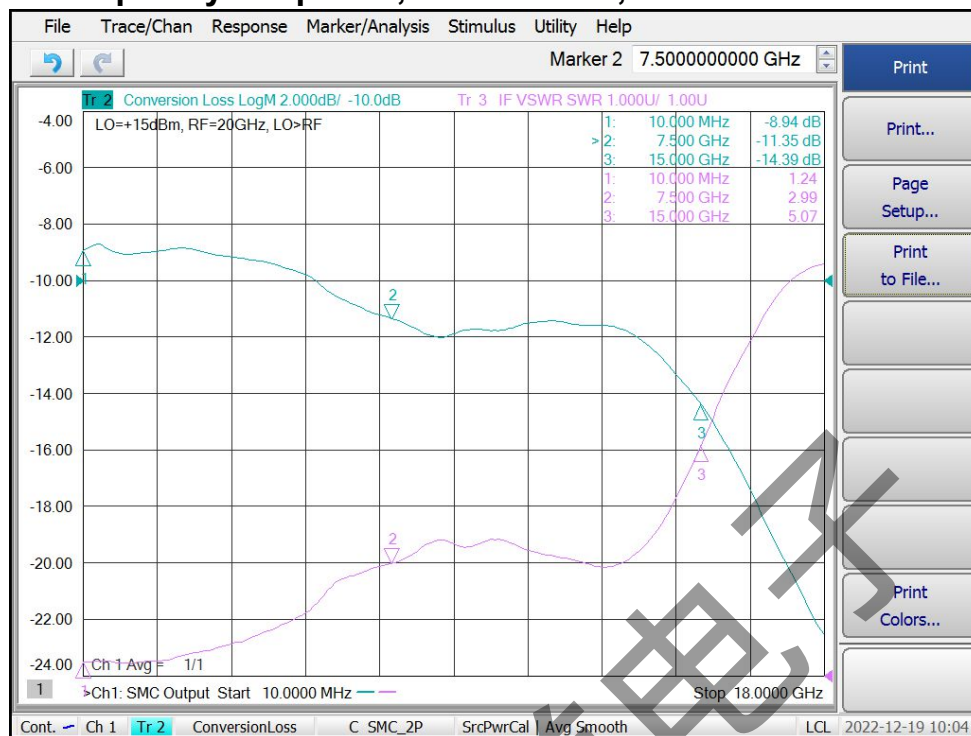
Conversion Loss, RF/IF VSWR, LO=+17dBm, IF=30MHz



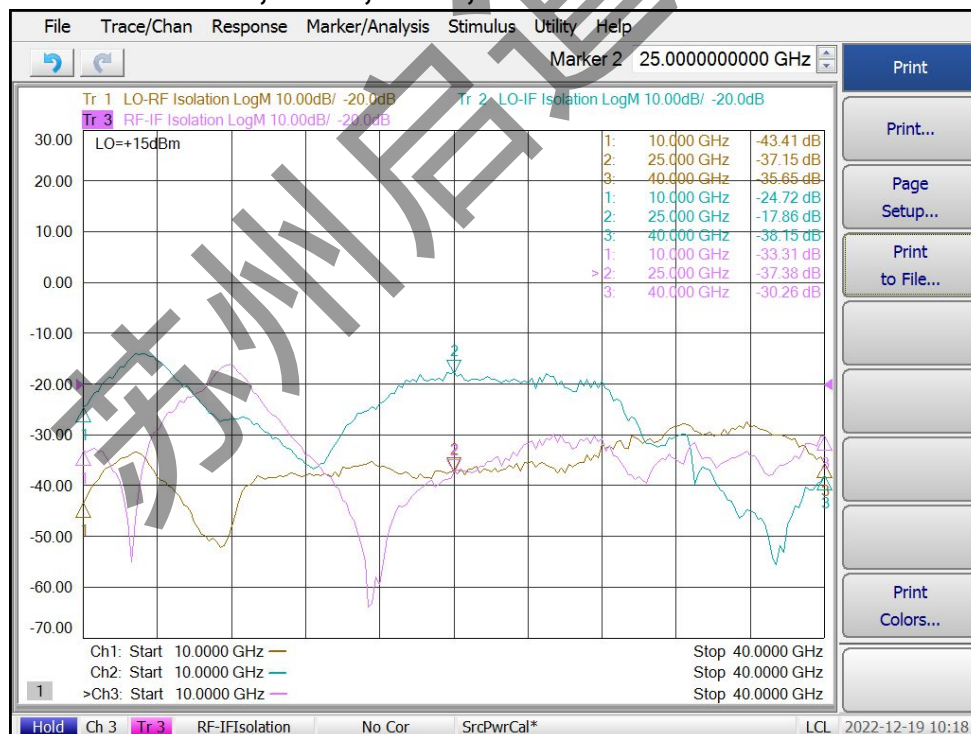
Level 15

10-40GHz Frequency Mixer

IF Frequency Response, LO=+15dBm, RF=20GHz



Isolation LO-RF, LO-IF, RF-IF, LO=+15dBm



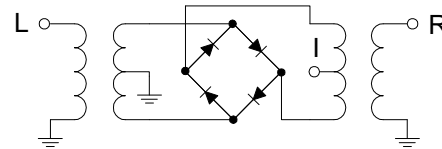
Level 15

10-40GHz Frequency Mixer

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF/LO Power	+21dBm
IF Current	30mA
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Schematic



ESD Sensitive Material



Outline

