

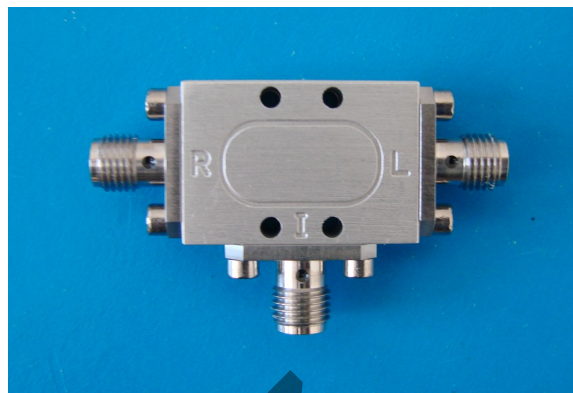
Level 13

16-30GHz Frequency Mixer

Features

- LO/RF: 16–30GHz
- IF: DC–8GHz
- LO Level: +13dBm
- Conversion Loss: 9dB typ.
- RF Input: Up to +14dBm
- Input IP3: +21dBm
- K-2.92mm Female RF/LO Ports
- SMA Female IF Port

Picture



Description

GXR-9 is a passive double balanced mixer with 16 to 30GHz at RF/LO port and DC to 8GHz at IF port.

Electrical Specifications @ +25 °C, IF=1GHz, LO=+13dBm, 50 Ω

Parameter		Unit	Minimum	Typical	Maximum
Frequency Range	LO/RF	GHz	16		30
	IF	GHz	DC		8
LO Power Level		dBm	+11	+13	+15
Conversion Loss		dB		9	14
LO-RF Isolation		dB	32	40	
LO-IF Isolation		dB	24	32	
RF-IF Isolation		dB	14	25	
RF Input P _{1dB}	LO/RF: 16-26GHz	dBm	+8	+13	
	LO/RF: 26-30GHz	dBm	+8	+14	
Input IP3	LO/RF: 16-26GHz	dBm	+15	+18	
	LO/RF: 26-30GHz	dBm	+17	+21	

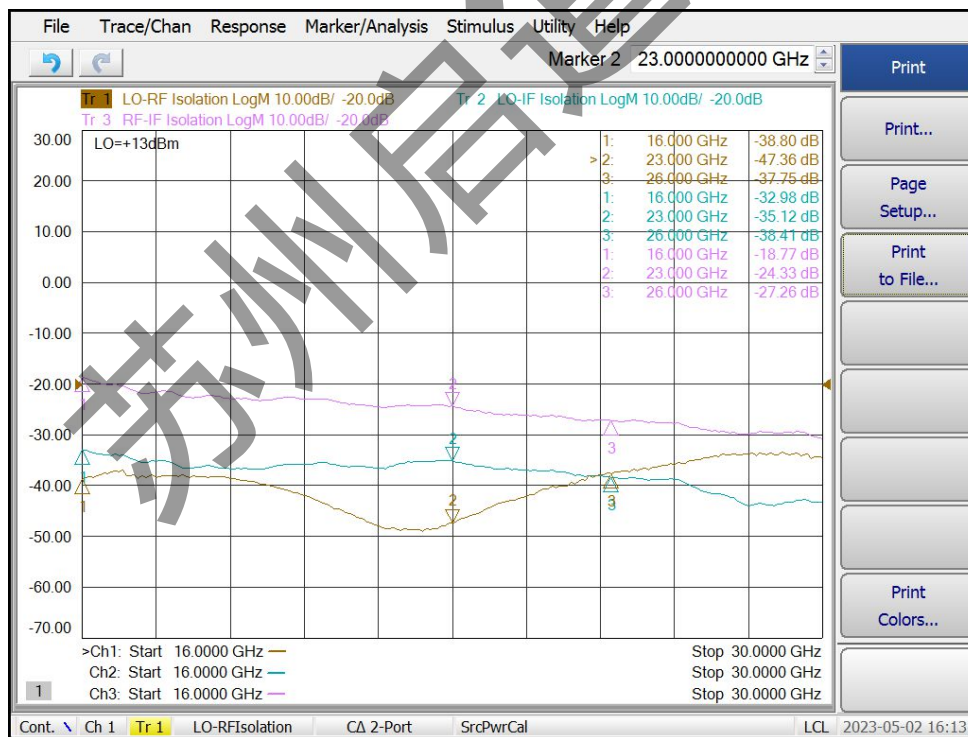
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Conversion Loss, RF/IF VSWR, LO=+13dBm, IF=1GHz



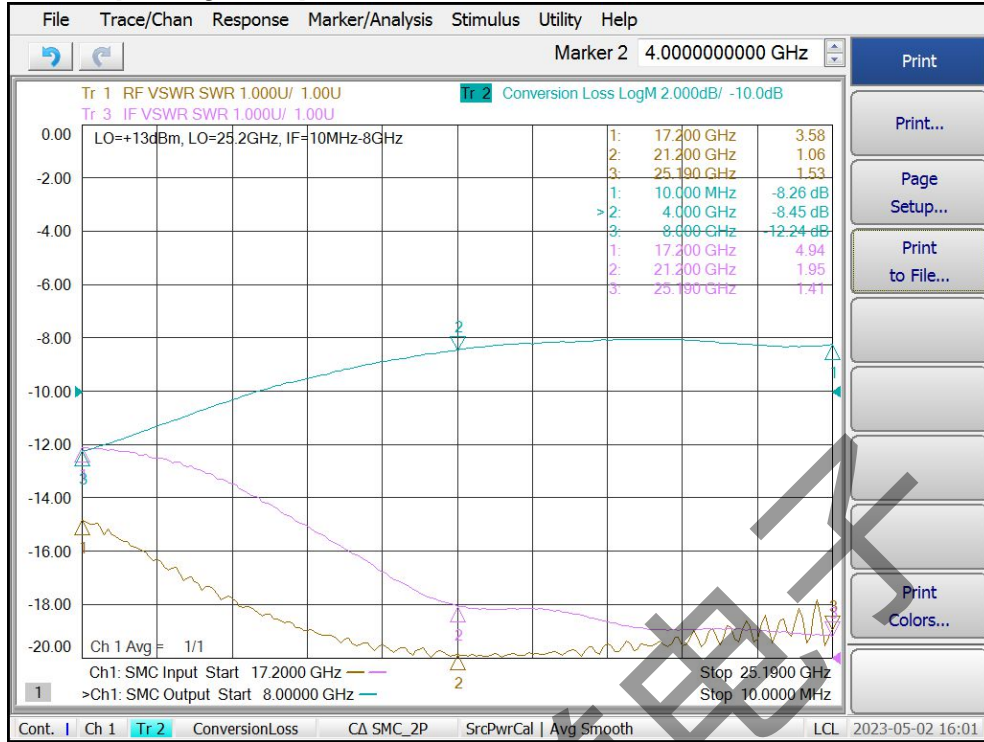
Isolation, LO-RF, RF-IF, LO-IF, LO=+13dBm



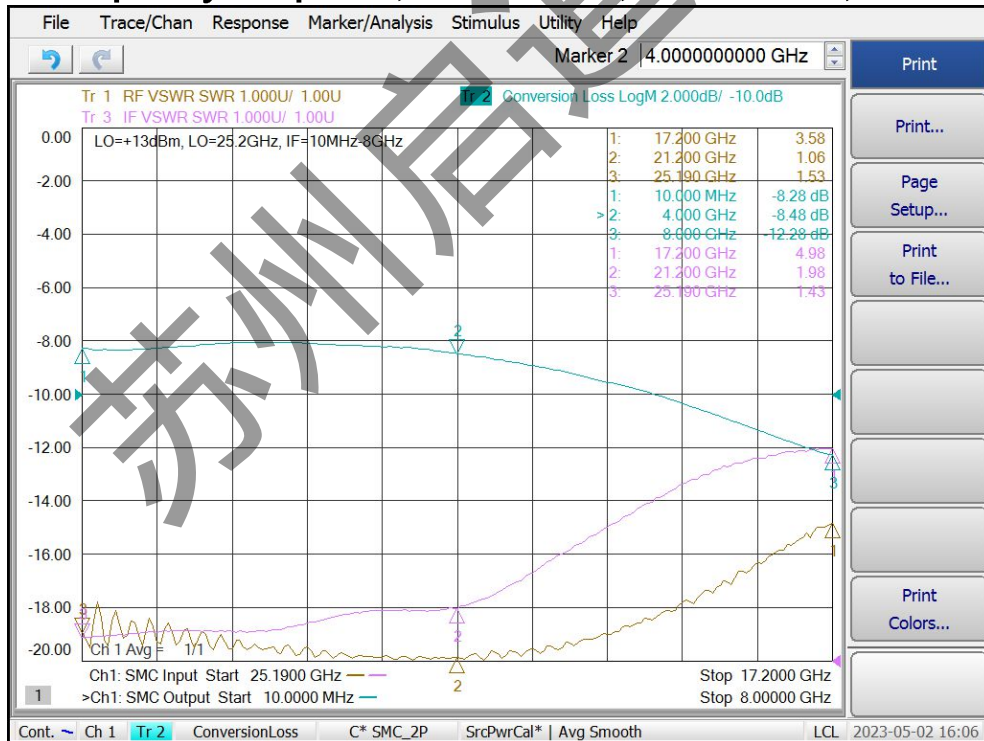
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IF Frequency Response, LO=+13dBm, LO=25.2GHz, LO>RF



IF Frequency Response, LO=+13dBm, LO=25.2GHz, LO<RF



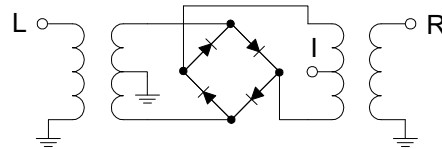
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF/IF Power	+15dBm
LO Driver Power	+27dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Schematic



ESD Sensitive Material



Outline

