

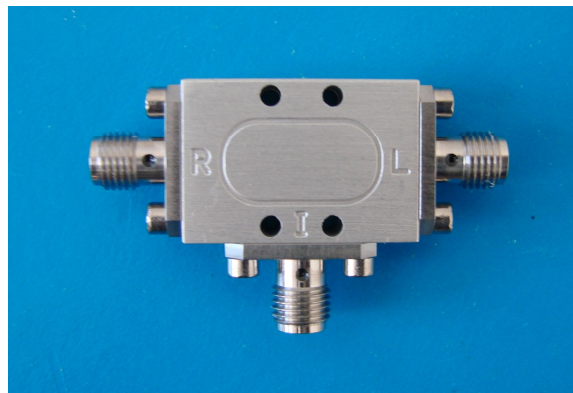
## Level 13

## 16-30GHz Frequency Mixer

### Features

- LO/RF: 16–30GHz
- IF: DC–8GHz
- LO Level: +13dBm
- Conversion Loss: 10dB 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.

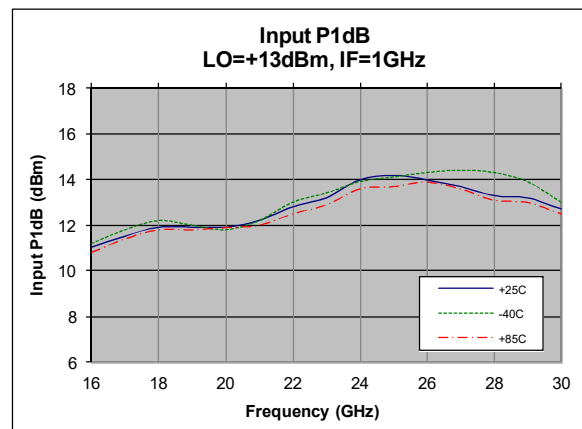
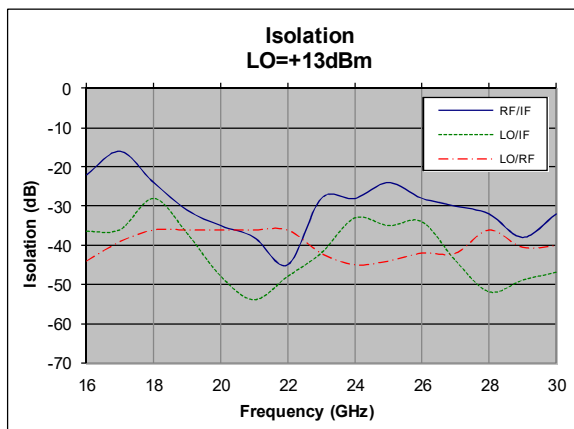
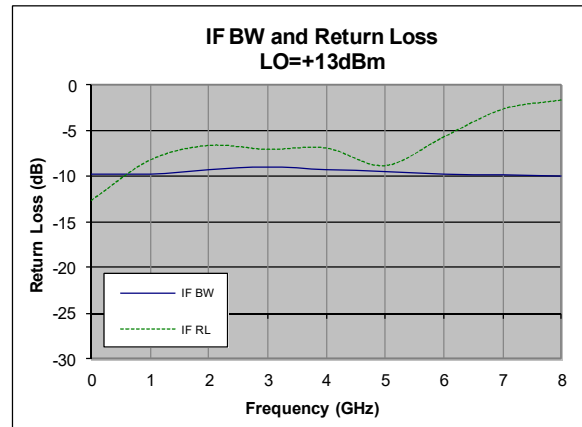
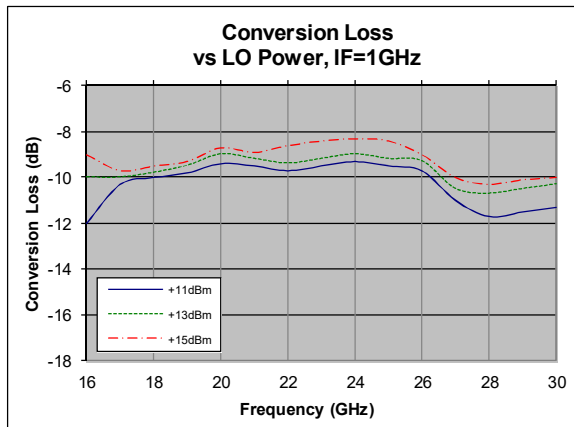
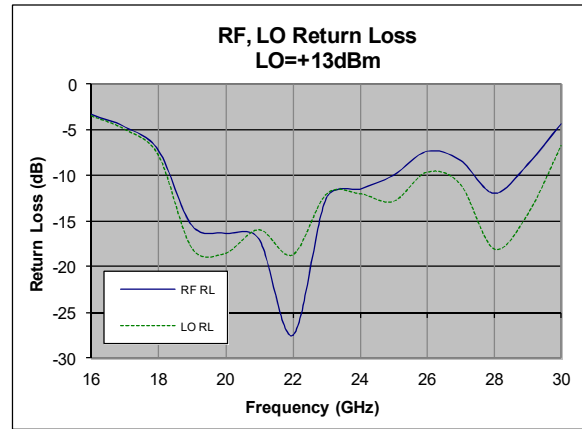
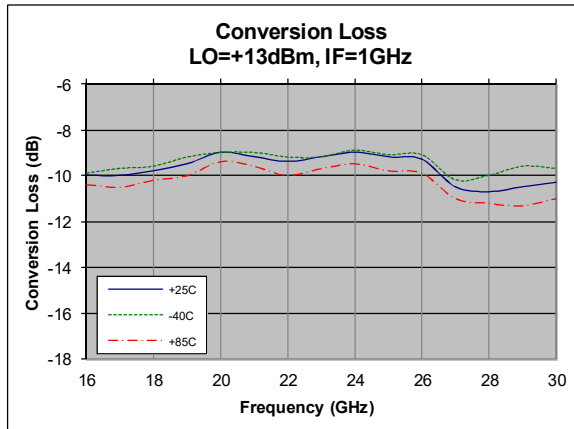
### Electrical Specifications @ +25 °C, IF=1GHz, LO=+13dBm, 50 Ω

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	LO/RF: 16-26GHz	dB		9	12
	LO/RF: 26-30GHz	dB		10	14
LO-RF Isolation	LO/RF: 16-26GHz	dB	34	40	
	LO/RF: 26-30GHz	dB	32	40	
LO-IF Isolation	LO/RF: 16-26GHz	dB	24	32	
	LO/RF: 26-30GHz	dB	28	34	
RF-IF Isolation	LO/RF: 16-26GHz	dB	14	25	
	LO/RF: 26-34GHz	dB	24	30	
RF Input P <sub>1dB</sub>	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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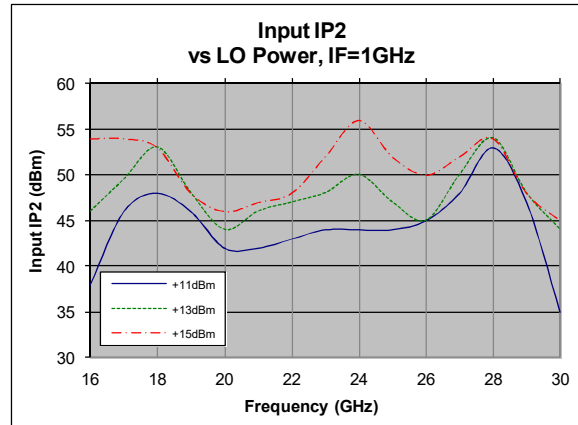
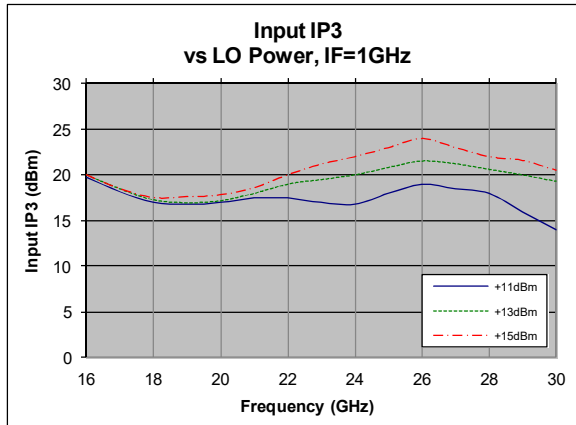
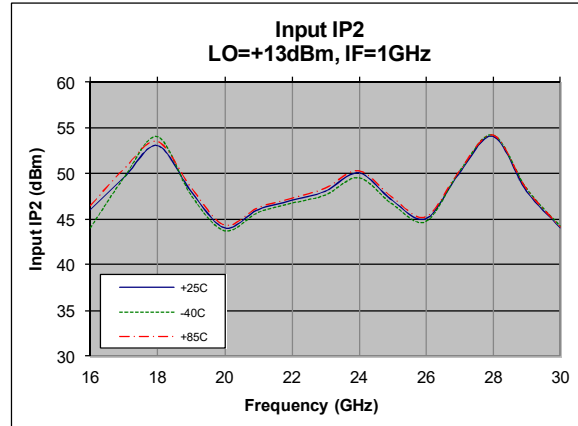
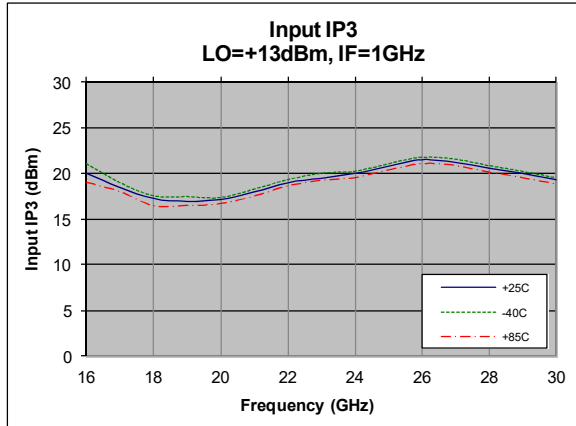
**Typical Performance**



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**Typical Performance**



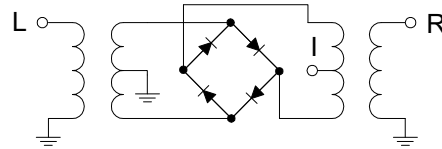
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**Absolute Maximum Ratings**

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

**Schematic**



**Outline**

