

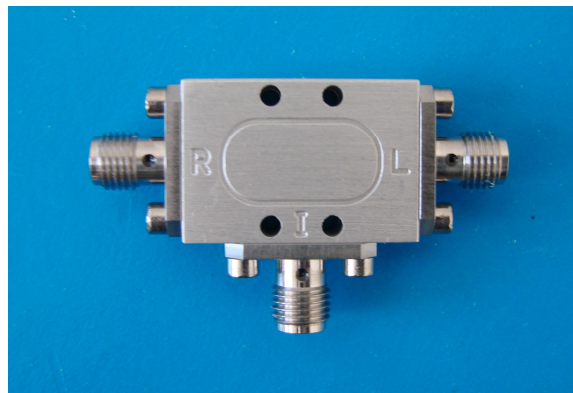
Level 13

24-32GHz Frequency Mixer

Features

- LO/RF: 24–32GHz
- IF: DC–8GHz
- LO Level: +13dBm
- Conversion Loss: 10.5dB typ.
- RF Input: Up to +13dBm
- Input IP3: +18dBm
- K-2.92mm Female RF/LO Ports
- SMA Female IF Port

Picture



Description

GXR-10 is a passive double balanced mixer with 24 to 32GHz at RF/LO port and DC to 8GHz at IF port.

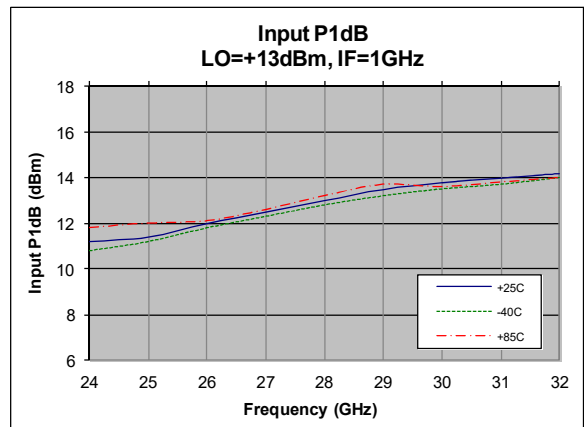
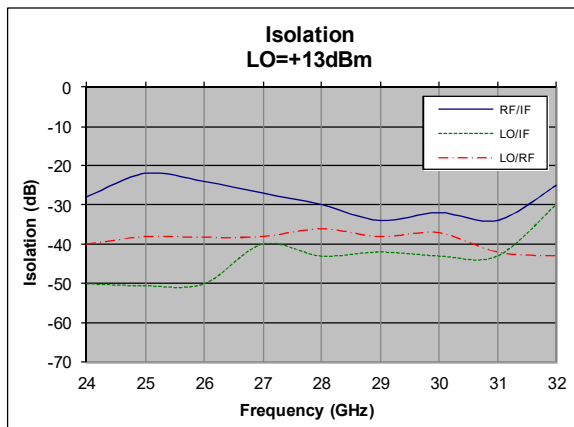
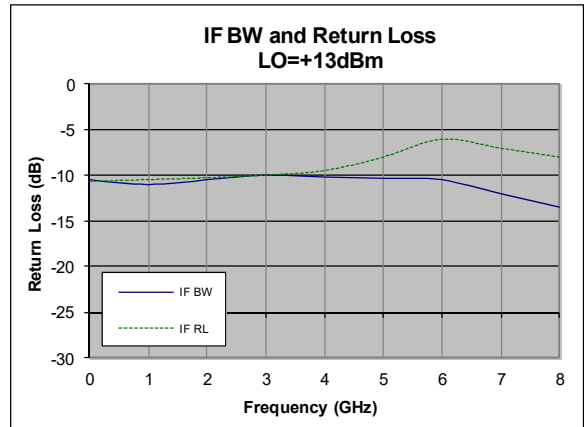
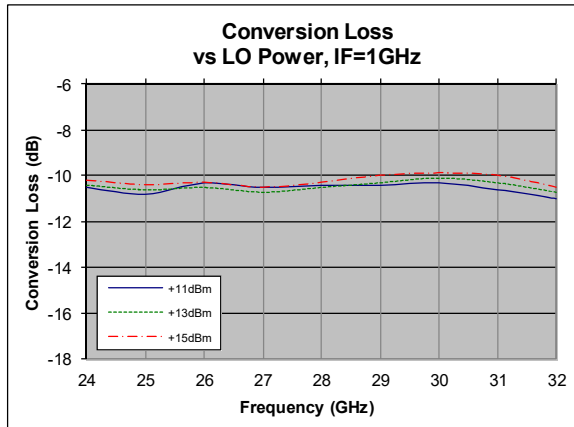
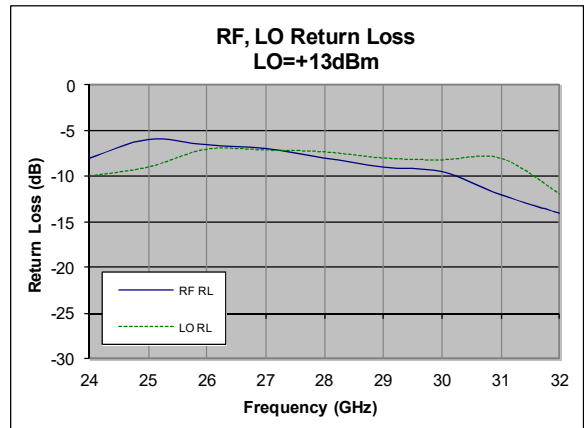
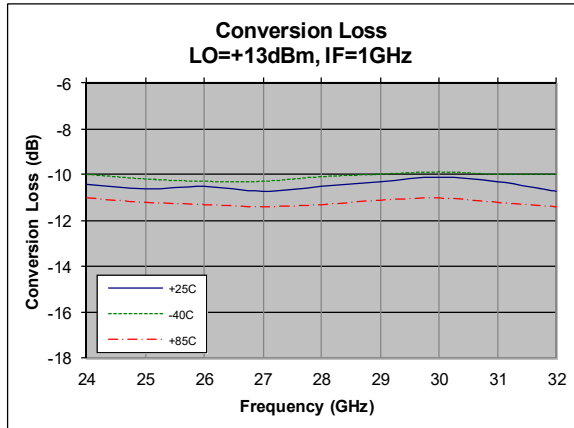
Electrical Specifications @ +25 °C, IF=1GHz, LO=+13dBm, 50 Ω

| Parameter | Unit | Minimum | Typical | Maximum |
|---------------------------|-------|---------|---------|---------|
| Frequency Range | LO/RF | 24 | | 32 |
| | IF | DC | | 8 |
| LO Power Level | dBm | | +13 | |
| Conversion Loss | dB | | 10.5 | 12.5 |
| LO-RF Isolation | dB | 32 | 38 | |
| LO-IF Isolation | dB | 20 | 40 | |
| RF-IF Isolation | dB | 20 | 30 | |
| RF Input P _{1dB} | dBm | | +13 | |
| Input IP3 | dBm | | +18 | |
| Input IP2 | dBm | | +40 | |

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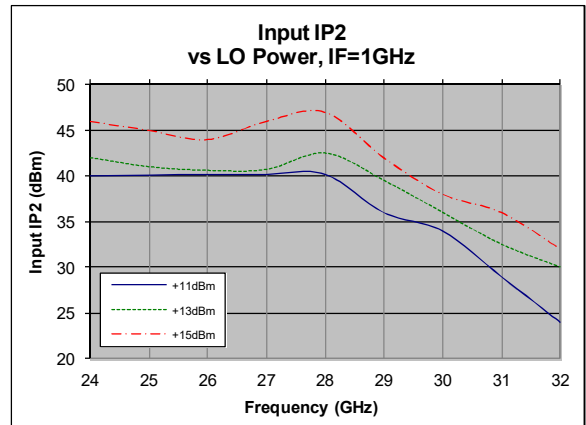
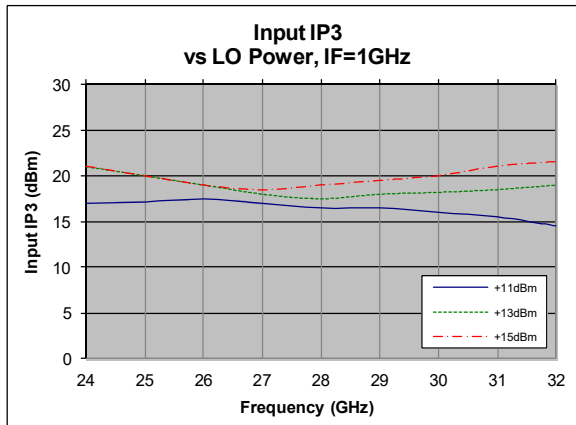
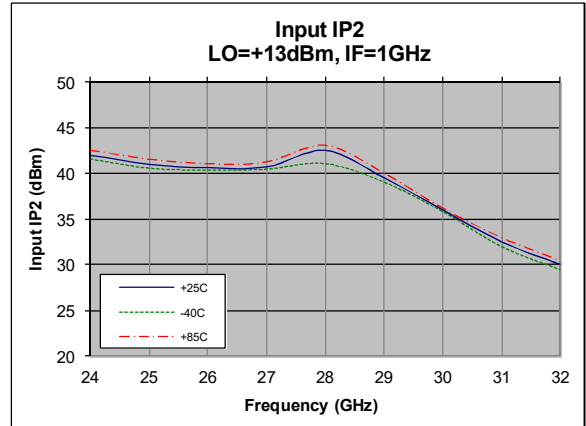
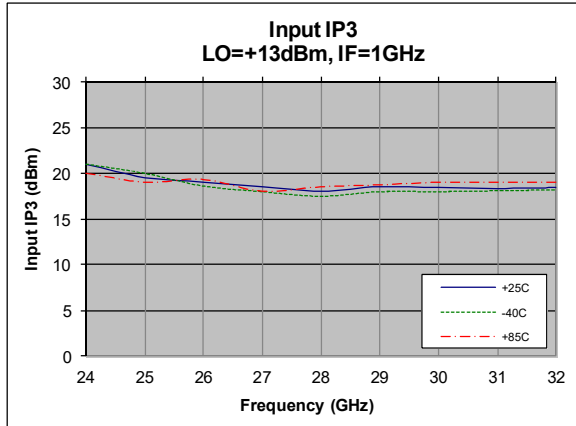
Typical Performance



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Typical Performance



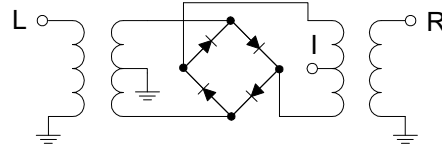
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24-32GHz Frequency Mixer

Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|-------------------|
| RF/IF Power | +13dBm |
| LO Driver | +27dBm |
| Operating Temperature | -40 °C to +85 °C |
| Storage Temperature | -65 °C to +150 °C |

Schematic



Outline

