

## 16-26GHz Frequency Mixer

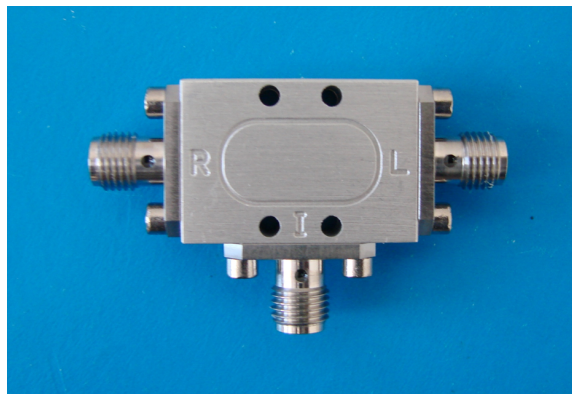
### Features

- LO/RF: 16–26GHz
- IF: DC–9GHz
- LO Level: +13dBm
- Conversion Loss: 7dB typ.
- RF Input: Up to +10dBm
- Input IP3: +17dBm
- SMA Female All Ports

### Description

HD32524 is a passive double balanced mixer with 16 to 26GHz at RF/LO port and DC to 9GHz at IF port. The mixer operates with LO drive level range from +10dBm to +16dBm.

### Picture



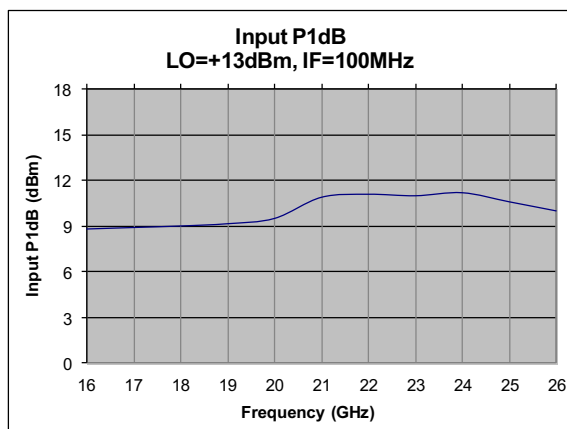
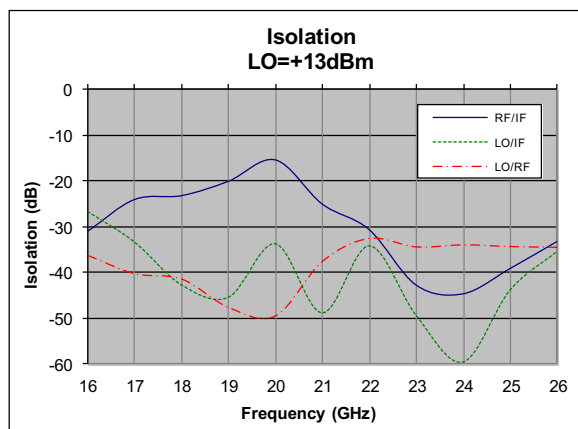
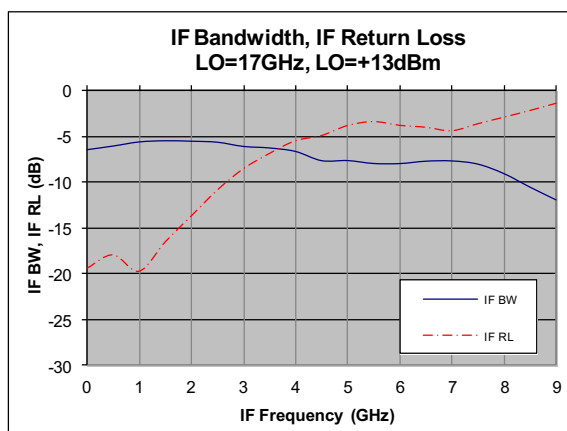
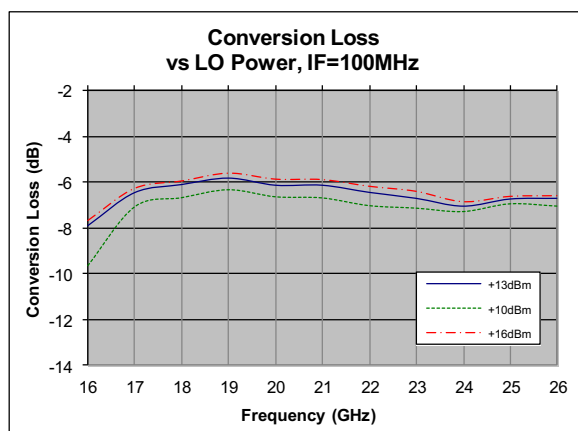
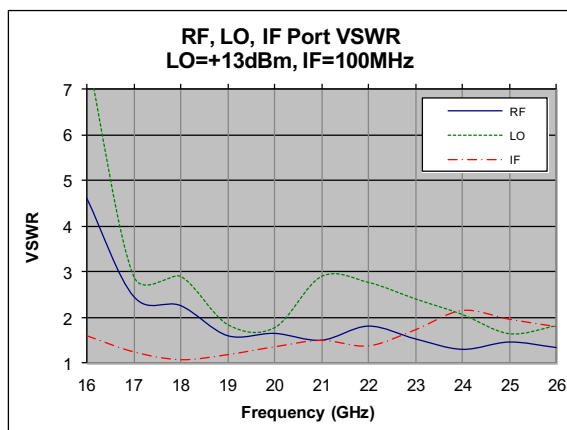
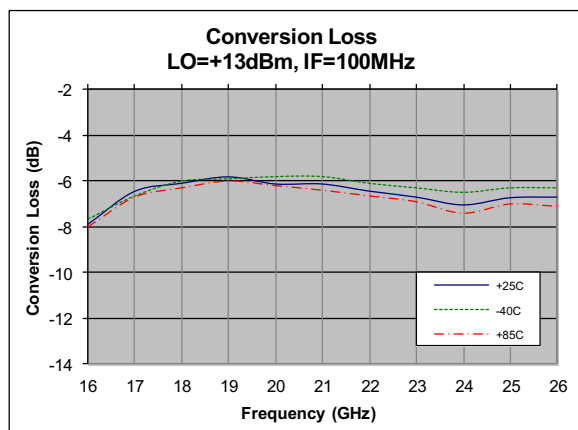
### Electrical Specifications @ +25 °C, IF=100MHz, LO=+13dBm, 50 Ω

| Parameter                 | Unit | Minimum | Typical | Maximum |
|---------------------------|------|---------|---------|---------|
| Frequency Range LO/RF     | GHz  | 16      |         | 26      |
| IF                        | GHz  | DC      |         | 9       |
| Conversion Loss           | dB   |         | 7       | 9       |
| LO-RF Isolation           | dB   | 30      | 40      |         |
| LO-IF Isolation           | dB   | 30      | 40      |         |
| RF-IF Isolation           | dB   | 15      | 25      |         |
| RF Input P <sub>1dB</sub> | dBm  |         | +10     |         |
| Input IP3                 | dBm  |         | +17     |         |

Unless otherwise noted, all measurements performed as a downconverter.

## 16-26GHz Frequency Mixer

### Typical Performance





***HD32524***

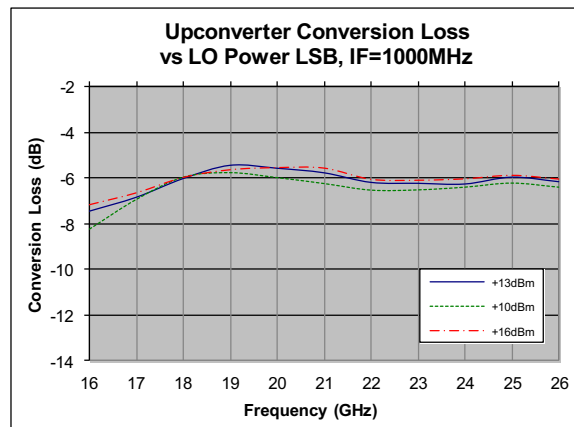
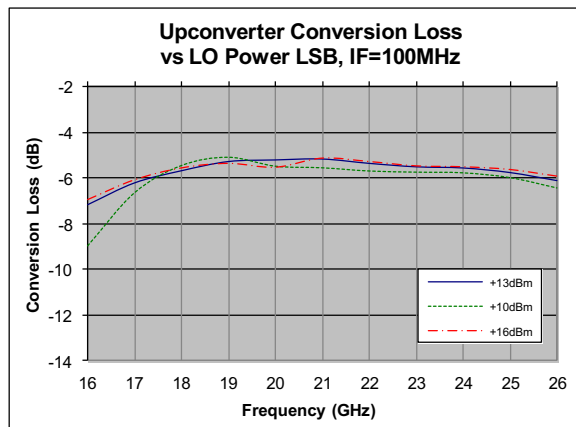
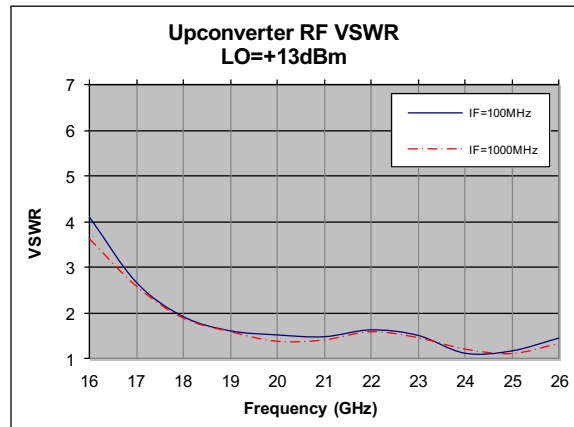
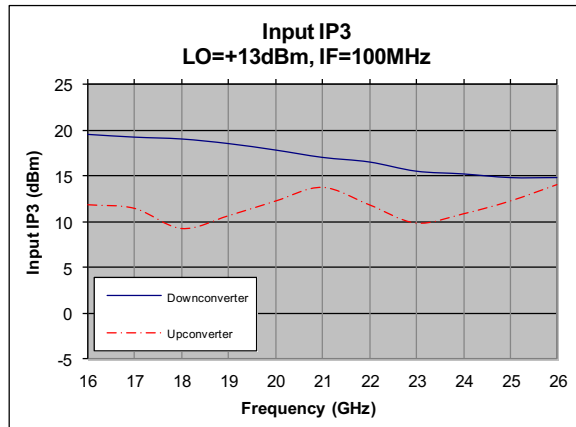
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### Typical Performance

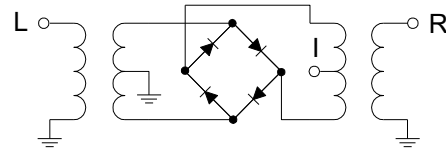


**16-26GHz Frequency Mixer**

**Absolute Maximum Ratings**

| Parameter             | Absolute Maximum  |
|-----------------------|-------------------|
| RF Power              | +25dBm            |
| LO Driver             | +25dBm            |
| Operating Temperature | -40 °C to +85 °C  |
| Storage Temperature   | -65 °C to +150 °C |

**Schematic**



**Outline**

