

Waveguide Amplifiers - Low Noise

General Features

- Frequency coverage: 50 – 350 GHz
- Full band and narrow band
- Lowest Available Noise Figure
- High P-1dB
- Low Power Consumption

Specifications

| Model | Frequency (GHz) | Gain (dB), typical | Noise Figure, dB typical | Waveguide | Flange |
|---------------------|------------------|--------------------|--------------------------|--------------|-------------------|
| THZLNA-12FB | 60 – 90 | 15 | < 5.0 | WR 12 | UG 387/U-M |
| THZLNA-10FB | 75 - 110 | 18 | < 3.5 | WR 10 | UG 387/U-M |
| THZLNA-10FBH | 75 – 110 | 40 | < 3.5 | WR 10 | UG 387/U-M |
| THZLNA-06FB | 110 - 170 | 18 | < 5.0 | WR6.5 | UG 387/U-M |
| THZLNA-06FBH | 110 - 170 | 35 | < 5.0 | WR6.5 | UG 387/U-M |
| THZLNA-05FB | 140 – 220 | 20 | < 7.5 mid band | WR 05 | UG 387/U-M |
| THZLNA-04NB | 210 - 260 | 18 | < 7.5 | WR 04 | UG 387/U-M |
| THZLNA-03/2.8NB | 250 - 350 | 25 | < 12 | WR 03/2.8 | UG 387/U-M |

Notes

1. Test Data: Gain or S parameters, noise figure
2. DC +5 V, < 100 mA typical
3. **How to make a request:** select one of the Models above, or provide specifications to sales@vivatechthz.com



Figure 1 110-170 GHz High Gain LNA

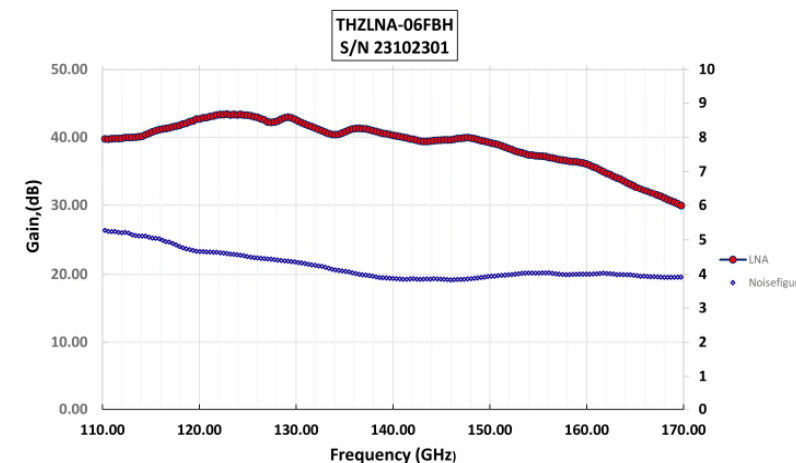


Figure 2 110-170 GHz Gain and Noise Figure

Waveguide Amplifiers - Low Noise contd

Test Data THZLNA-03/2.8 250-350 GHz

- Frequency coverage: 250 – 330 GHz (WR03)
- Frequency coverage: 250 - 350 (WR2.8)
- Lowest Available Noise Figure
- High P-1dB
- Low Power Consumption

S Parameters & Gain Compression

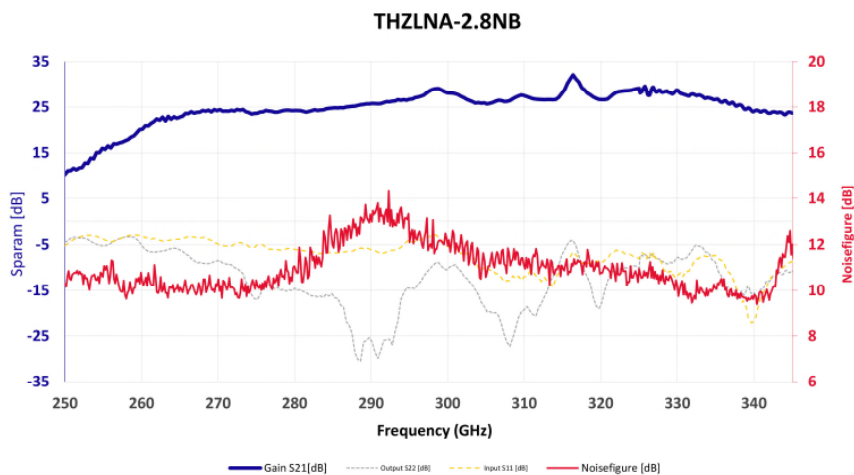


Figure 2 THZLNA-03/2.8NB 250-350 GHz LNA



Figure 1 THZLNA-03/2.8NB 250-350 GHz LNA

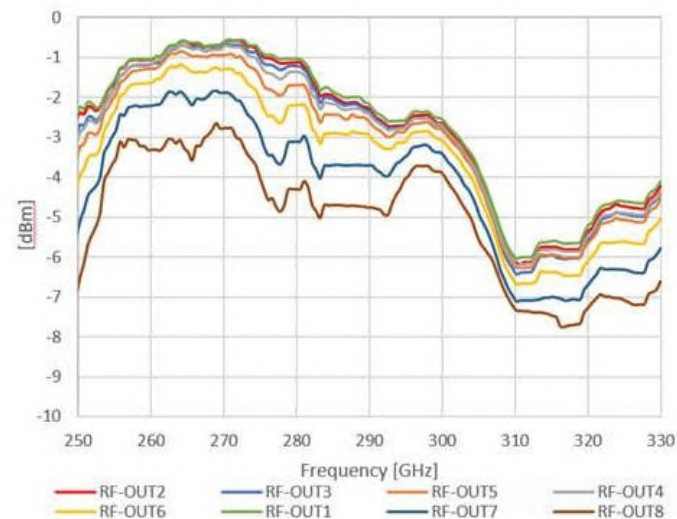


Figure 3 Gain Compression