

Waveguide Active Multipliers

General Features

- Plug'n Play: just add DC power and RF microwave input
- Coverage: 33 – 500 GHz
- Standard waveguide full-band & narrow-band
- Ideal signal generator or frequency extender
- High output power
- Flat frequency response
- Optional output isolators (up to 220 GHz)



Figure 1 THZXFA-12FBH

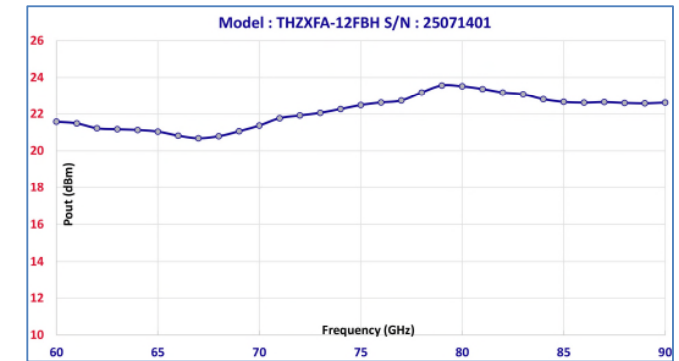


Figure 2 THZXFA-12FBH Output Power

Specifications

Model	Output Frequency (GHz)	Output Waveguide, Flange	Input Frequency (GHz)	Output Power (dBm) (min, typical)
THZXFA-12FB*	60 – 90	WR 12, UG387/U	10.0-15.0	+15, +17
THZXFA-12FBH*	60 – 90	WR 12, UG387/U	10.0-15.0	+20, +22 typical
THZXFA-10FBH	75 – 110	WR 10, UG387/U-M	12.50 – 18.33	+13, +16
THZXFA-08FB	90 – 140	WR 08, UG387/U-M	15.00 – 23.30	+10 min, +13 typical
THZXFA-06FB	110 – 170	WR 6.5, UG387/U-M	9.17 – 14.17	+6 min, +10 typical
THZXFA-05FB	140 – 220	WR 5.1, UG387/U-M	11.66 – 18.34	+4 typical
THZXFA-03FB	220 – 330	WR 3.4, UG387/U-M	12.20 – 18.10	-5 min, -7 typical
THZXFA-03FBH	220 – 330	WR 3.4, UG387/U-M	12.20 – 18.10	+3 typical, +5 max
THZXFA-2.2FB	330 – 500	WR 2.2, UG387/U-M	9.02 – 13.89	-10, -8



Figure 3 THZXFA-08/10FB

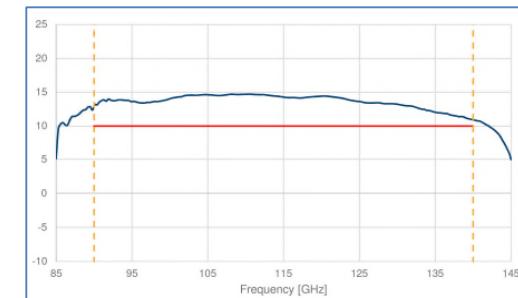


Figure 4 THZXFA-08FB Output Power

Waveguide Active Multipliers contd.



Figure 5 THZXFA-XXFB Packaged Module with heat sink

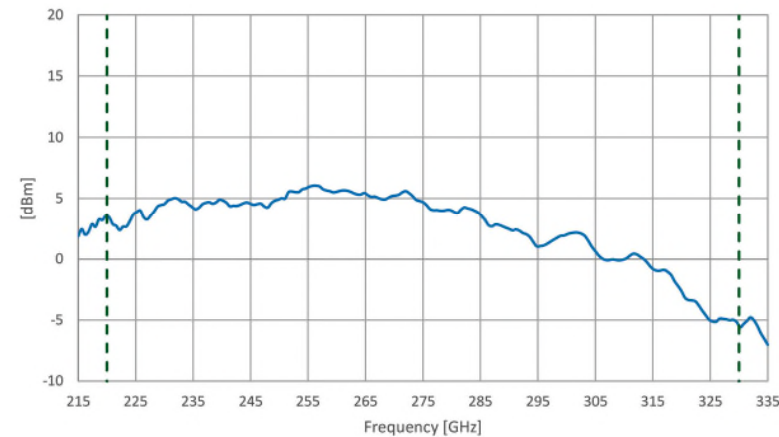


Figure 6 THZXFA-03FBH Output Power

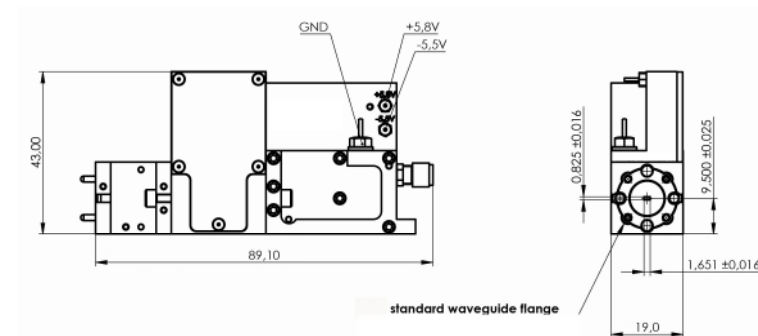


Figure 7 THZXFA-XXFBH Component Outline

Notes

1. RF input power: +7 to +10 dBm ; customization available
2. Harmonic and spurious: < 20 dBc typical
3. DC: +7 to +9 VDC, < 1 A typical; certain modules require multiple voltages
4. Input connector: SMA (F) or K (F)
5. **How to make a request:** specify Model above, or desired specifications, isolator if required ; email to: sales@vivatechthz.com
6. *Data and outlines are non-contractual and are subject to change*