

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-XXFB Module

Specifications

Model	Output Frequency (GHz)	Output Waveguide, Flange	Input Frequency (GHz)	Output Power (dBm)
THZXFA-22FB	33 - 50	WR 22, UG383/U	8.25-12.5	+23 typical
THZXFA-19FB	40 - 60	WR 19, UG383/U	10.0-15.0	+13, +16
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	+6 typical
THZXFA-06FB-12	110 – 170	WR 06, UG387/U-M	9.17 – 14.17	+10 min, +12 typical
THZXFA-05FB	140 – 220	WR 05, UG387/U-M	11.66 – 18.34	+4 typical
THZXFA-03FBH	220 – 330	WR 03, UG387/U-M	12.20 – 18.10	See data
THZXFA-2.2FB	325 – 500	WR 2.2,UG387/U-M	9.02 – 13.89	-10, -8

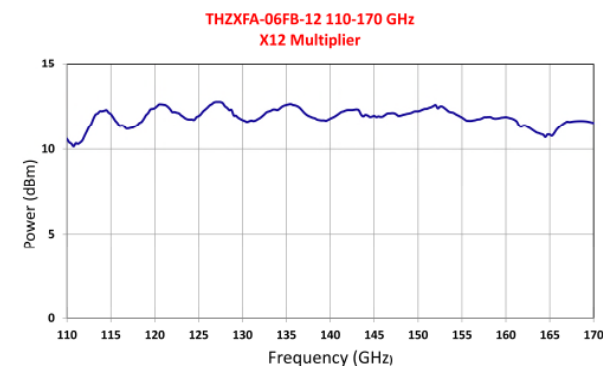


Figure 2 THZXFA-06FB Output Power 110-170 GHz

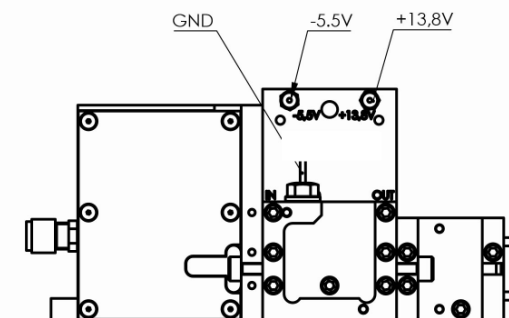


Figure 3 THZXFA-06FB-12 Component

Notes

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