

126-182 GHz FMCW Radar Module

General Features

- Frequency coverage: 126-182 GHz
- Co Planar Waveguide Transceiver with 2 additional receivers
- Custom Antenna & Interface Options
- 56 GHz sweep bandwidth achieving < 3 mm range resolution
- Applications ; non destructive testing, radars
- Use as direct source or VNA module

Specifications

Model	Frequency Band (GHz)	Transmit Power typical (dBm)	Receiver Noise Figure (dB)	Waveguide (WR)	Standard Flanges *
THZFMCW-06S	126-182	-10	20.0	WR 6.5	UG 387/U-M

*Notes

1. ** With 3 port WR6.5 standard flange adapter
2. Model shown with 3 port waveguide adapter and horn antennas
3. Interface ; Single DC supply 24 V, control USB-C, or Power Over Ethernet
4. Flexible & custom control software interface
5. FMCW sweep rate 1 KHz maximum @ full bandwidth
6. **How to make a request**, specify accessories if required, & email to: sales@vivatechthz.com
7. *Subject to review : photo and data non contractual



Figure 1 D Band FMCW 3-port Transceiver Module



Figure 2 3 port Waveguide Manifold