

## Near Field Probes – Millimeter / THz

### General Features

- Frequency coverage: 75 – 1100 GHz
- Near Field Scanning Applications
- Standard waveguide interfaces
- Quasi-uniform main beam
- Precision machining
- Custom designs



Fig 1 THZWGP-05-100 140-220 GHz

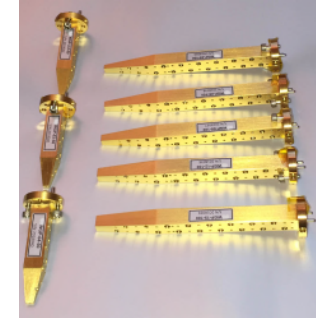


Fig 2 Probe Set 50-500 GHz

### Specifications

| Model              | Frequency (GHz)  | Standard Length, mm | VSWR, typical   | Waveguide    | Flange     |
|--------------------|------------------|---------------------|-----------------|--------------|------------|
| THZWGP-10-XX       | 75 – 110         | 100.0               | < 1.1           | WR 10        | UG387/U-M  |
| THZWGP-08XX        | 90 – 140         | 100.0               | < 1.1           | WR 08        | UG387/U-M  |
| THZWGP-06XX        | 110 – 170        | 100.0               | < 1.2           | WR 06        | UG387/U-M  |
| <b>THZWGP-05XX</b> | <b>140 – 220</b> | <b>100.0</b>        | <b>&lt; 1.2</b> | <b>WR 05</b> | UG387/U-M  |
| THZWGP-04XX        | 170 – 260        | 50.0                | < 1.25          | WR 04        | UG387/U-M  |
| <b>THZWGP-03XX</b> | <b>220 – 325</b> | <b>50.0</b>         | <b>&lt; 1.5</b> | <b>WR 03</b> | UG387/U-M  |
| THZWGP-2.8XX       | 260 – 400        | 35.0                | < 1.5           | WR 2.8       | UG387/U-M* |
| THZWGP-2.2XX       | 330 – 500        | 35.0                | < 1.75          | WR 2.2       | UG387/U-M* |
| THZWGP-1.5XX       | 500 – 750        | 35.0                | < 1.75          | WR 1.5       | UG387/U-M* |
| THZWGP-1.0RS       | 750 – 1100       | 25.0                | < 1.75          | WR 1.0       | UG387/U-M* |

### Notes

1. Suffix – XX denotes length. Standard lengths are shown above. Custom lengths are available.
2. Precision anti-cocking flanges type UG387/U-M are fitted as standard. \*IEEE 1785.2 option with additional dowels.
3. Probe material is copper or copper alloy gold plated.
4. Probes are tapered to reduce reflections in near field antenna measurements.
5. The chosen length is a compromise between probe loss and potential measurement perturbation.

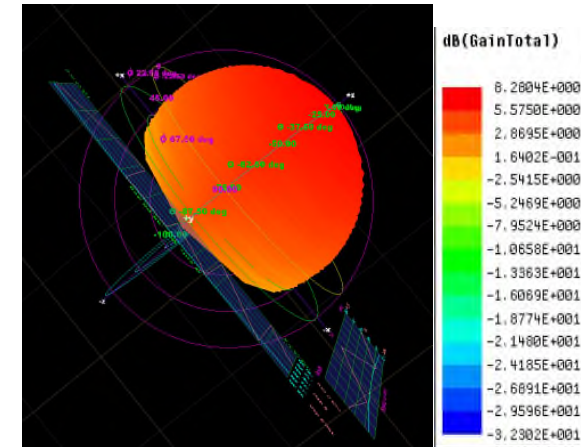


Fig 3 Measured Beam Pattern THZWGP-08-50