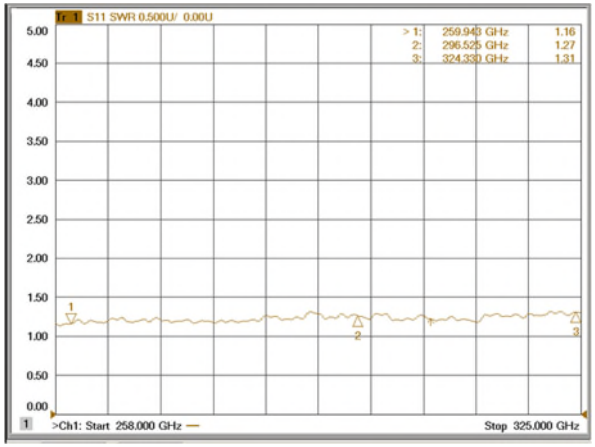
Waveguide Twists

General Features

- Frequency coverage: up to 1100 GHz
- High precision, incorporates IEEE 1785.2 dowels*
- Custom length possible
- Low loss
- Robust versions machined from solid

Specifications

Model Twist 90° ** Note 6	Frequency Coverage (GHz)	Waveguide Designation	New IEEE Waveguide Designation	Standard Flange[-2]
THZWGTW-10	75 – 110	WR 10	WM-2540	UG 387/U-M
THZWGTW-08	90 – 140	WR 08	WM-2022	UG 387/U-M
THZWGTW-06	110 – 170	WR 06	WM-1651	UG 387/U-M
THZWGTW-05	140 – 220	WR 05	WM-1295	UG 387/U-M
THZWGTW-04	170 – 260	WR 04	WM-1092	UG 387/U-M
THZWGTW-03	220 – 330 [-3]	WR 03	WM-864	UG 387/U-M
THZWGTW-2.8	260 – 400	WR 2.8	WM-710	UG 387/U-M IEEE 1785.2
THZWGTW-2.2	**330 – 500**	**WR 2.2**	**WM-570**	UG 387/U-M IEEE 1785.2
THZWGTW-1.5	500 – 750	WR 1.5	WM-380	UG 387/U-M IEEE 1785.2
THZWGTW-1.0	750 - 1100	WR 1.0	WM-250	UG 387/U-M IEEE 1785.2



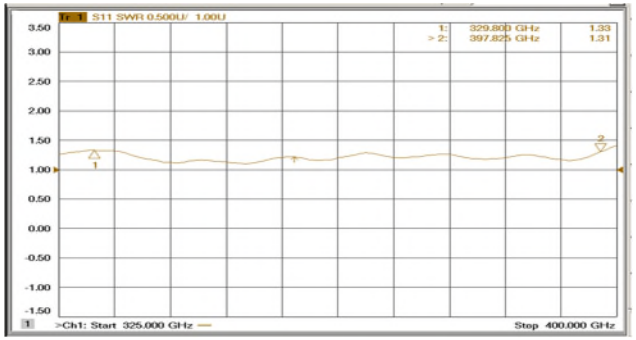


Fig 1 WR2.8 260-400 GHz 90 deg Twist VSWR

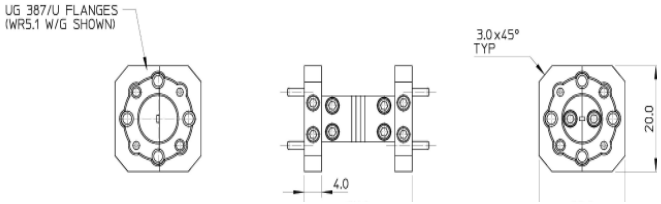


Fig 2 THZWGTW Twist Outline

Notes

1. New waveguide definitions are also used above 75 GHz, as defined by IEEE.
2. Flange types above 110 GHz (WR10) may vary. IEEE type 1785.2 is optionally fitted to WR2.8 – WR1.0
3. There are variations in industry 'standard' flanges. Specify your needs.
4. Waveguide WR 03 historically covers 220-325 GHz. The standard WM-864 covers 220 – 330 GHz.
5. Standard twists have length 25 mm.
6. 'Shim 90 deg twists' with 0.2 mm thickness and reduced loss are available to special order.

How to make a request: specify Model number, or custom dimensions. Email to: sales@vivatechthz.com

www.vivatechthz.com
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