

# WAVEGUIDE TWIST

## Rectangular Twist Waveguide

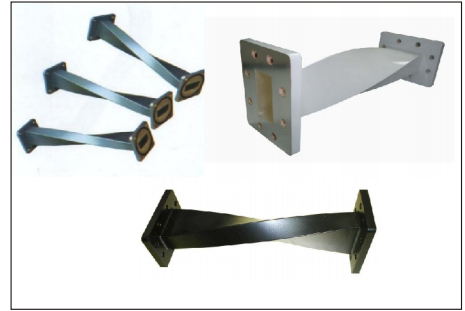


### ELECTRICAL CHARACTERISTICS:

| Part No.       | WG Type (EIA) | Freq Range (GHz) | VSWR        | Standard Length(mm) | Shortest Length(mm) | Flange  | Material |
|----------------|---------------|------------------|-------------|---------------------|---------------------|---------|----------|
| SH-22WTA...PM  | WR430         | 1.72-2.61        | $\leq 1.10$ | 400                 | 150                 | FDP/FDM | Al       |
| SH-26WTA...PM  | WR340         | 2.17-3.30        | $\leq 1.10$ | 400                 | 140                 | FDP/FDM | Al       |
| SH-32WTA...PM  | WR284         | 2.60-3.95        | $\leq 1.10$ | 300                 | 120                 | FDP/FDM | Al       |
| SH-40WTA...PM  | WR229         | 3.22-4.90        | $\leq 1.10$ | 200                 | 90                  | FDP/FDM | Al       |
| SH-48WTA...PM  | WR187         | 3.94-5.99        | $\leq 1.10$ | 200                 | 70                  | FDP/FDM | Al       |
| SH-58WTA...PM  | WR159         | 4.64-7.05        | $\leq 1.10$ | 200                 | 70                  | FDP/FDM | Al       |
| SH-70WTA...PM  | WR137         | 5.38-8.17        | $\leq 1.10$ | 100                 | 60                  | FDP/FDM | Cu       |
| SH-84WTA...PM  | WR112         | 6.57-9.99        | $\leq 1.10$ | 100                 | 50                  | FBP/FBM | Cu       |
| SH-100WTA...PM | WR90          | 8.20-12.40       | $\leq 1.10$ | 100                 | 45                  | FBP/FBM | Cu       |
| SH-120WTA...PM | WR75          | 9.84-15.0        | $\leq 1.10$ | 100                 | 40                  | FBP/FBM | Cu       |
| SH-140WTA...PM | WR62          | 11.9-18.0        | $\leq 1.10$ | 100                 | 40                  | FBP/FBM | Cu       |
| SH-180WTA...PM | WR51          | 14.5-22.0        | $\leq 1.10$ | 50                  | 35                  | FBP/FBM | Cu       |
| SH-220WTA...PM | WR42          | 17.6-26.7        | $\leq 1.10$ | 60                  | 35                  | FBP/FBM | Cu       |
| SH-260WTA...PM | WR34          | 21.7-33.0        | $\leq 1.10$ | 60                  | 35                  | FBP/FBM | Cu       |
| SH-320WTA...PM | WR28          | 26.5-40.0        | $\leq 1.10$ | 60                  | 30                  | FBP/FBM | Cu       |
| SH-400WTA...   | WR22          | 32.9-50.1        | $\leq 1.15$ | 50                  | 30                  | FUGP    | Cu       |
| SH-500WTA...   | WR19          | 39.2-59.6        | $\leq 1.15$ | 50                  | 30                  | FUGP    | Cu       |
| SH-620WTA...   | WR15          | 49.8-75.8        | $\leq 1.15$ | 50                  | 25                  | FUGP    | Cu       |
| SH-740WTA...   | WR12          | 60.5-91.9        | $\leq 1.15$ | 50                  | 25                  | FUGP    | Cu       |
| SH-900WTA...   | WR10          | 73.8-112         | $\leq 1.15$ | 50                  | 25                  | FUGP    | Cu       |

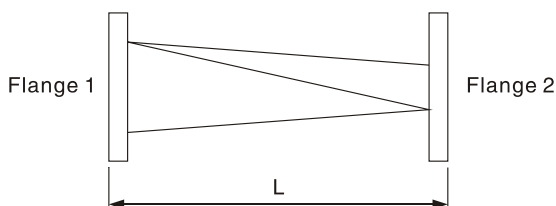
## WAVEGUIDE TWIST

Shinhom Microwave offers a standard product line of waveguide twist covering waveguide sizes WR10 thru WR430. Twist angle, twist direction and flange types can be custom made as per customer' s specific requirements.



### ELECTRICAL CHARACTERISTICS:

| Part No.     | Freq Range (GHz) | VSWR (Max) | Minimum Length (mm) | WG type |       | Flange      | Material |
|--------------|------------------|------------|---------------------|---------|-------|-------------|----------|
|              |                  |            |                     | IEC     | EIA   |             |          |
| SH-22WTA...  | 1.72-2.61        | 1.10       | 800                 | R22     | WR430 | FDP/FDM     | Al/Cu    |
| SH-26WTA...  | 2.17-3.30        | 1.10       | 400                 | R26     | WR340 | FDP/FDM     | Al/Cu    |
| SH-32WTA...  | 2.60-3.95        | 1.10       | 300                 | R32     | WR284 | FDP/FDM     | Al/Cu    |
| SH-40WTA...  | 3.22-4.90        | 1.10       | 250                 | R40     | WR229 | FDP/FDM     | Al/Cu    |
| SH-48WTA...  | 3.94-5.99        | 1.10       | 200                 | R48     | WR187 | FDP/FDM     | Al/Cu    |
| SH-58WTA...  | 4.64-7.05        | 1.10       | 170                 | R58     | WR159 | FDP/FDM     | Al/Cu    |
| SH-70WTA...  | 5.38-8.17        | 1.10       | 150                 | R70     | WR137 | FDP/FDM     | Al/Cu    |
| SH-84WTA...  | 6.57-9.99        | 1.10       | 120                 | R84     | WR112 | FBP/FBM/FBE | Al/Cu    |
| SH-100WTA... | 8.20-12.40       | 1.10       | 60                  | R100    | WR90  | FBP/FBM/FBE | Al/Cu    |
| SH-120WTA... | 9.84-15.0        | 1.10       | 60                  | R120    | WR75  | FBP/FBM/FBE | Al/Cu    |
| SH-140WTA... | 11.9-18.0        | 1.10       | 50                  | R140    | WR62  | FBP/FBM/FBE | Al/Cu    |
| SH-180WTA... | 14.5-22.0        | 1.10       | 50                  | R180    | WR51  | FBP/FBM/FBE | Al/Cu    |
| SH-220WTA... | 17.6-26.7        | 1.10       | 50                  | R220    | WR42  | FBP/FBM/FBE | Al/Cu    |
| SH-260WTA... | 21.7-33.0        | 1.15       | 50                  | R260    | WR34  | FBP/FBM/FBE | Al/Cu    |
| SH-320WTA... | 26.3-40.0        | 1.15       | 50                  | R320    | WR28  | FBP/FBM/FBE | Al/Cu    |
| SH-400WTA... | 32.9-60.1        | 1.15       | 50                  | R400    | WR22  | FUGP        | Cu       |
| SH-500WTA... | 39.2-59.6        | 1.15       | 50                  | R500    | WR19  | FUGP        | Cu       |
| SH-620WTA... | 49.8-75.8        | 1.15       | 50                  | R620    | WR15  | FUGP        | Cu       |
| SH-740WTA... | 60.5-91.9        | 1.15       | 50                  | R740    | WR12  | FUGP        | Cu       |
| SH-900WTA... | 73.8-112         | 1.15       | 50                  | R900    | WR10  | FUGP        | Cu       |



### Ordering Information

Example Part No: SH - 100 WTA 100 P M A 45

Shinhom Microwave \_\_\_\_\_

WG type: R100 \_\_\_\_\_

Product Type: WG Twist \_\_\_\_\_

Twist WG Length: L=100mm \_\_\_\_\_

Flange 1 Type: P=FBP100 \_\_\_\_\_

Twisting Angle: 45° (90° as default)

Material : A=Aluminum C=Copper

Flange 2 Type: M=FBM100

- Flange type: Multiple types available – see Shinhom Microwave Flanges page
- Finish: Corrosion protection plus black/grey top coat
- Twist angle other than 90° available on request
- Twist direction option of Shinhom Microwave unless otherwise specified