QUINSTAR TECHNOLOGY, INC.

Waveguide Bends and Twists
QWB/QWT

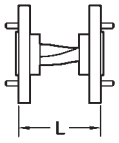
Characteristics

- 30°, 45°, 60° and 90° Bends
- 45° and 90° Twists
- Minimum Insertion Loss

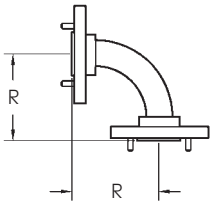
Product Description

QuinStar Technology's **QWB** and **QWT** series **waveguide bends and twists** cover the frequency range of 18 to 220 GHz in ten waveguide bands. E-Plane and H-Plane formed bends are available with angles of 30°, 45°, 60°, and 90°. The twists allow changing the orientation in a waveguide assembly. They are available with angles of 45° in either a left- or right-hand twist or a standard 90°. The bends and twists are built with high precision and then gold plated for low insertion loss and high corrosion resistance. Typical VSWR is 1.10:1 over entire frequency band.

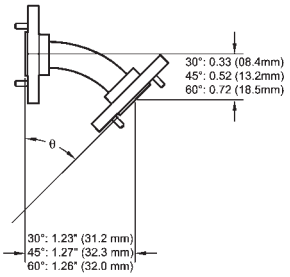
Outline Drawings/Mechanical Specifications



Waveguide Twist
(round flange pattern shown)



Right Angle



Waveguide Bends
(round flange pattern shown)

FREQUENCY BAND	K	Ka	Q, U	V, E, W, F, D, G
Waveguide Size	WR-42	WR-28	WR-22, -19	WR-15, -12, -10, -8, -6, -5
Twist Length, inches/mm	2.5/63.5	1.75/44.5	1.25/31.8	1.00/25.4
Right Angle (90°) Bend Radius, inch/mm	1.5/38.1	1.5/38.1	1.5/38.1	1.0/25.4

Ordering Information

Model Number **QW_ - A BC D E**

model prefix
B = bend
T = twist

waveguide band designator

K = K-band	E = E-band
A = Ka-band	W = W-band
Q = Q-band	F = F-band
U = U-band	D = D-band
V = V-band	G = G-band

flange type
R = round
S = square
z = custom

type of twist or bend

L = left-handed twist	E = E-plane bend
R = right-handed twist	H = H-plane bend
0 = 90° twist	

angle of twist or bend
30 = 30° / 60 = 60° / 45 = 45° / 90 = 90°

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