

## Characteristics

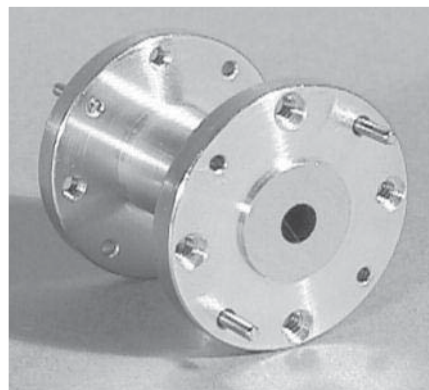
- ◆ Available in Internal Diameter from 0.059-0.660 inch
- ◆ Precise Dimensions

## Product Description

QuinStar Technology offers circular waveguides (flanged and unflanged) for operation in the TE<sub>11</sub> mode for frequencies from 12 to 220 GHz in all standard and many custom internal diameters ranging from 0.059 to 0.660 inches. The bandwidth associated with these TE<sub>11</sub> mode circular waveguides is narrower than a typical rectangular waveguide in the same general frequency range. Since several internal circular waveguide diameters are

applicable for a given frequency, please contact QuinStar with your specific requirement.

QuinStar also can supply rectangular to circular waveguide transitions (Series QWC) for all applicable combinations of these circular and rectangular waveguides.



## Specifications

See Appendix for Mechanical Specifications for Circular Waveguide Flanges

Table Of Internal Diameters for TE<sub>11</sub> Circular Waveguides

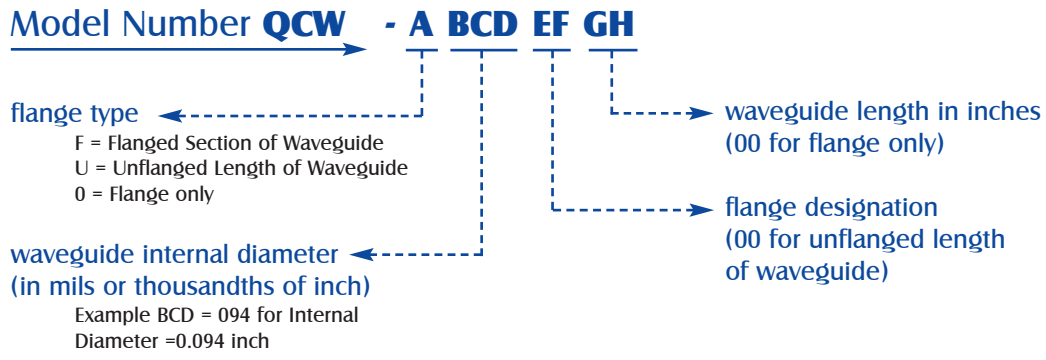
Band Designation	Frequency Range, GHz	Internal Diameter, inch	Band Designation	Frequency Range, GHz	Internal Diameter, inch
Ku-1	12.4-14.6	0.660	E-0	58-68	0.141
Ku-2	14.6-17.5	0.550	E-1	68-77	0.125
K-1	17.5-20.5	0.470	E-2	77-87	0.110
K-2	20.5-24.5	0.396	E-3	87-100	0.094
K-3	24.5-26.5	0.328	W-0	77-87	0.110
Ka-0	26-28.5	0.328	W-1	87-100	0.094
Ka-1	28.5-33	0.281	W-2	100-112	0.082
Ka-2	33-38.5	0.250	F-0	87-100	0.094
Ka-3	38.5-43	0.219	F-1	100-112	0.082
Q-0	33-38.5	0.250	F-2	112-125	0.075
Q-1	38.5-43	0.219	F-3	125-140	0.067
Q-2	43-50	0.188	D-0	100-112	0.082
U-0	38.5-43	0.219	D-1	112-125	0.075
U-1	43-50	0.188	D-2	125-140	0.067
U-2	50-58	0.165	D-3	140-160	0.059
V-0	50-58	0.165	G-0	125-140	0.067
V-1	58-68	0.141	G-1	140-220	0.059
V-2	68-77	0.125			



# Circular Waveguide Sections and Flanges

## QCW

### Ordering Information



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