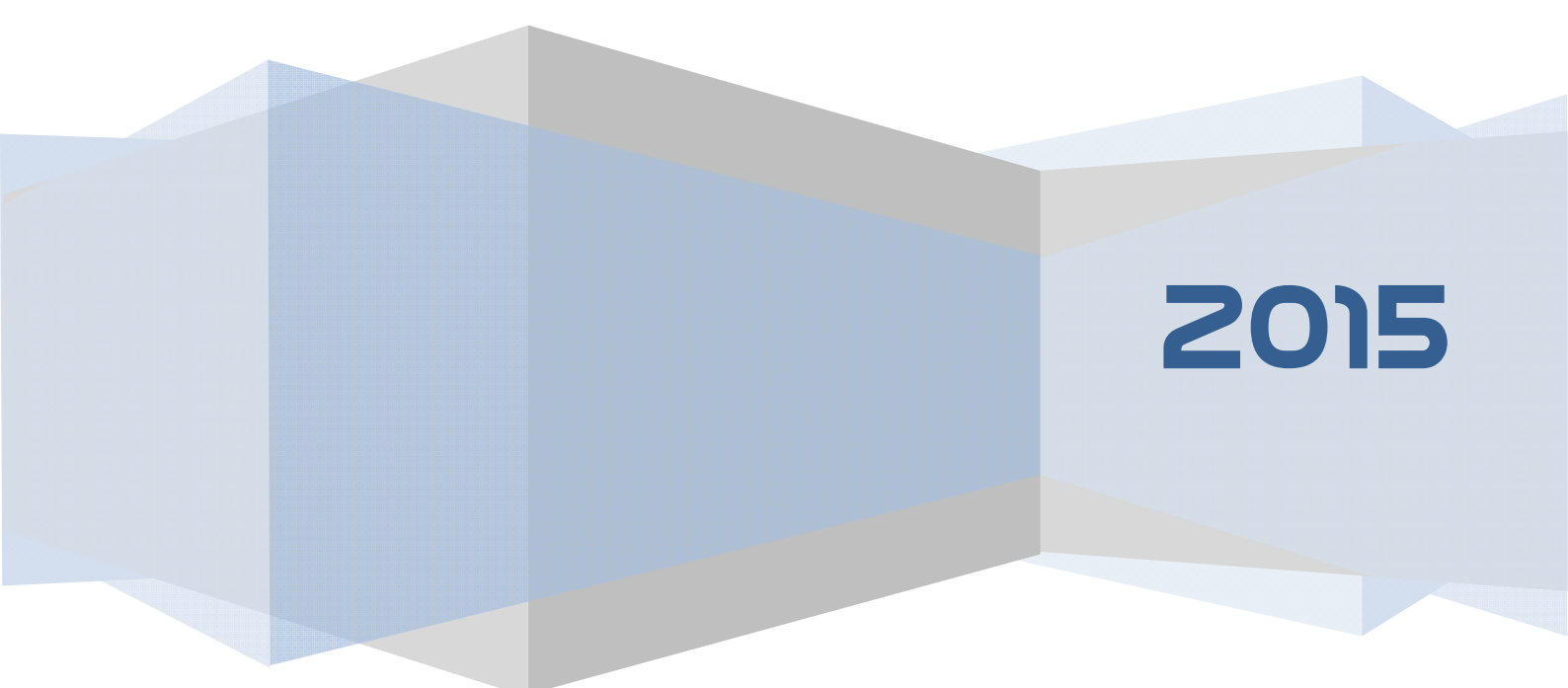


CATALOGUE

Huacheng Microwave

SINCE 1966



2015

Flexible Waveguide

Flexible twist waveguide

Core Flexible twist waveguide tube

Elliptical waveguide

Rigid Waveguide Tubing

Rectangular Rigid waveguide tubing

Rectangular Rigid E/H Bend Waveguide Tubing

Flat Rectangular Rigid Waveguide tubing

Double Ridge Rigid Waveguide tubing

Square Rigid Waveguide tubing

Waveguide Component

Straight waveguide

E/H Bend Waveguide

Twist Waveguide

Waveguide to Coaxial Transition (Adapter)

Cross Guide Couplers

Broadwall Coupler

Termination -Low Power (Load)

Termination -High Power (Load)

Transition

Rotary Joints

Standard Gain Horns

Magic Tees

Flange

Spacer(Shim)

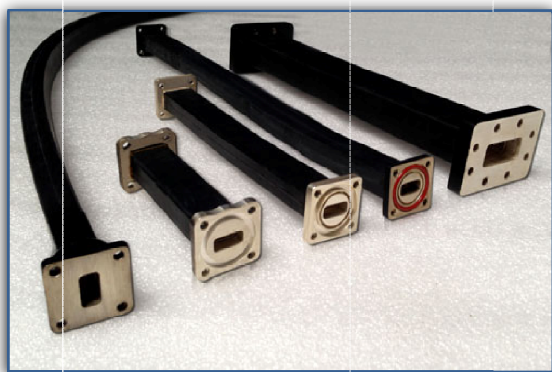
Gasket

Waveguide Isolator / Circulator

Isolator

Circulator

Specialty Products

**Features:**

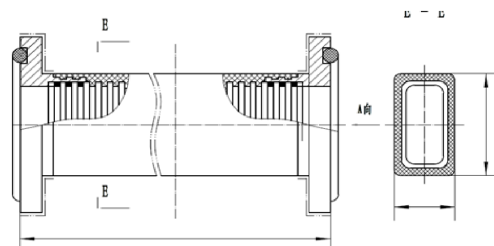
- Low VSWR ; low Insertion loss
- Can do the Frequency upon request
- Can design Flange upon request
- Can do any length upon request

Jacket

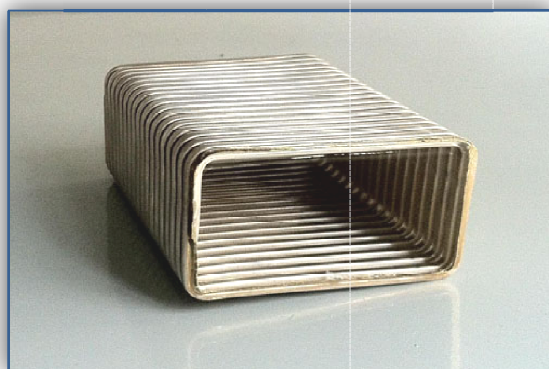
- Press Neoprene
- Wrap Silicone
- Brush on polysulfide
- Unjacketed
- Painted

Flange Plating

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

**Flexible Twistable Waveguide**

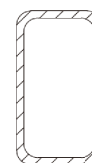
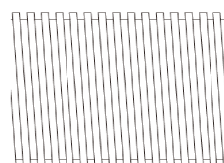
WG Designation			Frequency (GHz)	VSWR (dB)	Insertion Loss (dB/m)	Length (mm)	Flange
BJ	WR	R					
14	650	14	1.13-1.73	≤1.10	0.10	100-1500	FDP/FDM/FBP/FBM
18	510	18	1.45-2.20	≤1.10	0.20	100-1500	FDP/FDM/FBP/FBM
22	430	22	1.72-2.61	≤1.10	0.22	100-1500	FDP/FDM/FBP/FBM
26	340	26	2.17-3.30	≤1.10	0.25	100-1500	FDP/FDM/FBP/FBM
32	284	32	2.60-3.95	≤1.10	0.30	100-1500	FDP/FDM/FBP/FBM
40	229	40	3.22-4.90	≤1.10	0.40	100-1500	FDP/FDM/FBP/FBM
48	187	48	3.94-5.99	≤1.10	0.45	100-1500	FDP/FDM/FBP/FBM
58	159	58	4.64-7.05	≤1.10	0.50	100-1500	FDP/FDM/FBP/FBM
70	137	70	5.85-8.20	≤1.10	0.30	100-1500	FDP/FDM
84	112	84	7.05-10.00	≤1.10	0.40	100-1500	FDP/FDM/FBP/FBM
100	90	100	8.20-12.40	≤1.15	0.60	100-1500	FDP/FDM/FBP/FBM
120	75	120	10.00-15.00	≤1.15	0.65	100-1500	FDP/FDM/FBP/FBM
140	62	140	12.40-18.00	≤1.15	1.00	100-1500	FDP/FDM/FBP/FBM
180	51	180	15.00-22.00	≤1.23	2.00	100-1500	FDP/FDM/FBP/FBM
220	42	220	17.70-26.50	≤1.25	2.50	100-1500	FBP/FBM
320	28	320	26.50-40.00	≤1.25	3.00	100-1500	FBP/FBM
400	22	400	40.50-43.50	≤1.35	4.00	100-1500	FBP/FBM

**Features:**

- Low VSWR
- Low Insertion loss
- Max. length is 3.5 metre
- Tube material: Brass

Finish

- Silver
- Painted

**Core Flexible Twist Waveguide Tube**

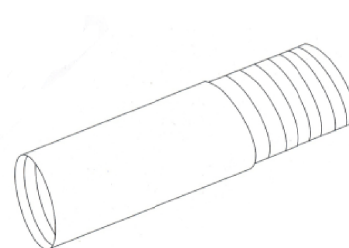
WG Designation			Frequency (GHz)	VSWR (dB)	Insertion Loss (dB/m)
BJ	WR	R			
14	650	14	1.13-1.73	≤1.10	0.10
18	510	18	1.45-2.20	≤1.10	0.20
22	430	22	1.72-2.61	≤1.10	0.22
26	340	26	2.17-3.30	≤1.10	0.25
32	284	32	2.60-3.95	≤1.10	0.30
40	229	40	3.22-4.90	≤1.10	0.40
48	187	48	3.94-5.99	≤1.10	0.45
58	159	58	4.64-7.05	≤1.10	0.50
70	137	70	5.85-8.20	≤1.10	0.30
84	112	84	7.05-10.00	≤1.10	0.40
100	90	100	8.20-12.40	≤1.15	0.60
120	75	120	10.00-15.00	≤1.15	0.65
140	62	140	12.40-18.00	≤1.15	1.00
180	51	180	15.00-22.00	≤1.23	2.00
220	42	220	17.70-26.50	≤1.25	2.50
320	28	320	26.50-40.00	≤1.25	3.00
400	22	400	40.50-43.50	≤1.35	4.00



Features:

- Low VSWR
- Low Insertion loss
- Can produce long length, easy to install
- Operating temperature: -40°C ~ 75°C
- Storage temperature: -55°C~ 85°C
- Low cost

Jacket : Black polyethylene



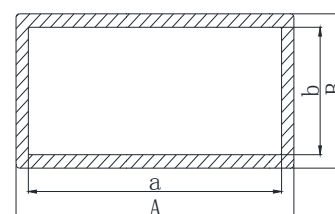
Model	Frequency (GHz)	VSWR	Insertion Loss (dB/100m)	Overall Dimension (mm)	Min. Bend Radius		Weight (kg/m)	Flange
					E(mm)	H(mm)		
HC-EW24s	2.200-3.100	1.2	2.0	100.5×63.5	800	2000	2.6	PDR22 UDR22 PDR32 UDR32
HC-EW26s	2.500-2.700	1.3	2.0	108.4×61.3	600	1500	2.5	N-K50 IF-45
HC-EW38s	3.400-4.200	1.15	3.6(3.4Ghz) 2.6(4.2Ghz)	82.6×47.4	340	840	1.7	PDR40 UDR40
HC-EW36x	3.400-3.800	1.1	2.6	81.7×52.0	500	1000	2.2	PBR40
HC-EW40x	3.800-4.200	1.1	3.1	72.2×47.8	400	1000	1.8	PBR40
HC-EW47x	4.400-5.000	1.1	3.5	72.0×41.5	400	1000	1.4	PBR48
HC-EW48s	4.400-5.000	1.15	4.7(4.4Ghz) 3.8(5.0Ghz)	72.0×42.0	300	750	1.4	PDR48 UDR48
HC-EW54s	5.000-6.000	1.15	5.3(5Ghz) 4.3(6Ghz)	58.5×38.0	240	580	1	PDR48 UDR48 PDR58 UDR58
HC-EW62h	5.925-6.425	1.1	4.7	49.4×28.8	600	1000		PDR70
HC-EW65x	5.925-7.125	1.1	4.8	50.3×29.4	300	800	1.1	PBR70
HC-EW68h	6.425-7.125	1.1	5.0	44.8×26.2	500	800		PDR70
HC-EW75h	7.125-7.725	1.1	5.5	44.4×27.3	500	800		PDR70
HC-EW82h	7.725-8.275	1.1	6.3	40.0×26.0	500	700		PBR84

Model	Frequency (GHz)	VSWR	Insertion Loss (dB/100m)	Overall Dimension (mm)	Min. Bend Radius		Weight (kg/m)	Flange
					E(mm)	H(mm)		
HC-EW78x	7.125-8.500	1.1	5.8	44.1×27.3	300	600	0.8	PBR70 PBR84 PDR84
HC-EW85h	8.275-8.725	1.1	6.3	40.0×26.0	500	700		PBR84
HC-EW85x	8.200-8.750	1.1	6.4	41.7×24.7	300	600	0.8	PBR84 PDR84 PBR100
HC-EW90s	8.600-10.000	1.15	11.2(8.6Ghz) 9.5(10.0Ghz)	34.0×24.0	160	350	0.6	PDR84 UDR84 PDR100 UDR100
HC-EW109x	10.100-11.700	1.1	9.5	33.5×21.4	260	400	0.5	PBR100 PBR120
HC-EW110s	10.200-11.700	1.15	10.7(10.2Ghz) 9.9(11.7Ghz)	33.0×21.0	150	300	0.5	PDR100 UDR100 PBR100 UBR100
HC-EW120s	10.95-12.75	1.2	10.0	29.0×15.0	150	300	0.4	PBR120 UBR120
HC-EW148s	14.00-15.35	1.2	16.5(14Ghz) 15.5(15.35Ghz)	25.3×16.0	150	350	0.34	PBR120 UBR120 PBR140 UBR140
HC-EW188s	17.70-19.70	1.25	20.5(17.7Ghz) 19.0(19.7Ghz)	23.6×16.1	150	380	0.22	PBR220 UBR220 PBR140 UBR140
HC-EW62s-6G	5.925-6.425	1.1	5.2	52.0×30.0	220	550	0.85	PDR70 UDR70
HC-EW62s-7G	6.425-7.125	1.1	4.5	33.5×21.10	220	550	0.85	PDR70 UDR70
HC-EW80s-7G	7.125-7.725	1.1	5.4	33.5×21.11	200	520	0.72	PDR70 UDR70 PDR84 UDR84
HC-EW80s-8G	7.725-8.500	1.1	5.4	33.5×21.12	200	520	0.72	PDR70 UDR70 PDR84 UDR84



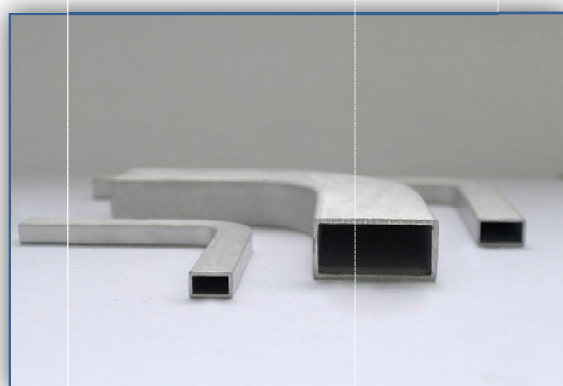
Features:

- Material : 3A21 AL , 6063 AL , 96 Cu
- Max. length is 2 metre.



Rectangular Rigid Waveguide Tube

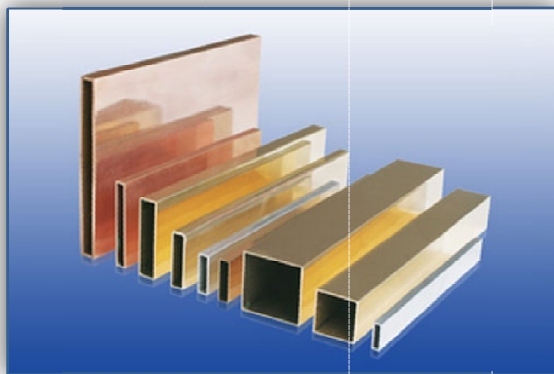
WG Designation			Frequency Range of Dominant Mode	Cut-off Frequency	Inside Dimension (mm)		Outer Dimension (mm)		Weight (kg/m)	
R	WR	BJ	GHz	GHz	a	b	A	B	H96	LF21
14	650	14	1.14-1.73	907.91	165.1	82.55	169.16	86.61	9.04	2.81
18	510	18	1.45-2.20	1157.1	129.54	64.77	133.6	68.83	7.13	2.21
22	430	22	1.72-2.61	1372.4	109.22	54.61	113.28	58.67	6.03	1.87
26	340	26	2.17-3.30	1735.7	86.36	43.18	90.42	47.24	4.81	1.5
32	284	32	2.60-3.95	2077.9	72.14	34.04	76.2	38.1	3.96	1.23
40	229	40	3.22-4.90	2576.9	58.17	29.08	61.42	32.33	2.6	0.81
48	187	48	3.94-5.99	3152.4	47.55	22.15	50.8	25.4	2.1	0.65
58	159	58	4.64-7.05	3711.2	40.39	20.19	43.64	23.44	1.84	0.57
70	137	70	5.38-8.17	4301.2	34.85	15.8	38.1	19.05	1.54	0.48
84	112	84	6.57-9.99	5295.7	28.5	12.62	31.75	15.88	1.27	0.4
100	90	100	8.20-12.5	6557.1	22.86	10.16	25.4	12.7	0.79	0.25
120	75	120	9.84-15.0	7868.6	19.05	9.525	21.59	12.06	0.69	0.22
140	62	140	11.9-18.0	9487.7	15.8	7.899	17.83	9.93	0.46	0.14
180	51	180	14.5-22.0	11571	12.95	6.477	14.99	8.51	0.39	0.12
220	42	220	17.6-26.7	14051	10.67	4.318	12.7	6.35	0.31	0.1
260	34	260	21.7-33.0	17357	8.636	4.318	10.67	6.35	0.27	0.08
320	28	320	26.4-40.0	21077	7.112	3.556	9.14	5.59	0.23	0.07
400	22	400	32.9-50.1	26344	5.69	2.845	7.72	4.88	0.2	0.06
500	18	500	39.2-59.6	31392	4.775	2.388	6.81	4.42	0.17	0.05
620	14	620	49.8-75.8	39877	3.759	1.88	5.79	3.91	0.15	0.05
740	12	740	60.5-91.9	48369	3.0988	1.5494	5.13	3.58	0.13	0.04
900	10	900	73.8-112	59014	2.54	1.27	4.57	3.3	0.11	0.04

**Features:**

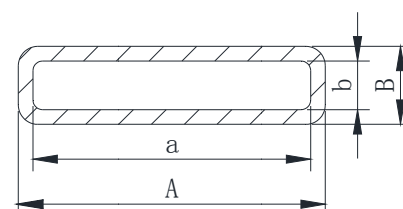
- Material : 3A21 AL , 6063 AL , 96 Cu

Rectangular Rigid E/H Bend Waveguide Tube

WG Designation			Frequency Range of Dominant Mode	Cut-off Frequency	Inside Dimension (mm)		Outer Dimension (mm)		Weight (kg/m)	
R	WR	BJ	GHz	GHz	a	b	A	B	H96	LF21
14	650	14	1.14-1.73	907.91	165.1	82.55	169.16	86.61	9.04	2.81
18	510	18	1.45-2.20	1157.1	129.54	64.77	133.6	68.83	7.13	2.21
22	430	22	1.72-2.61	1372.4	109.22	54.61	113.28	58.67	6.03	1.87
26	340	26	2.17-3.30	1735.7	86.36	43.18	90.42	47.24	4.81	1.5
32	284	32	2.60-3.95	2077.9	72.14	34.04	76.2	38.1	3.96	1.23
40	229	40	3.22-4.90	2576.9	58.17	29.08	61.42	32.33	2.6	0.81
48	187	48	3.94-5.99	3152.4	47.55	22.15	50.8	25.4	2.1	0.65
58	159	58	4.64-7.05	3711.2	40.39	20.19	43.64	23.44	1.84	0.57
70	137	70	5.38-8.17	4301.2	34.85	15.8	38.1	19.05	1.54	0.48
84	112	84	6.57-9.99	5295.7	28.5	12.62	31.75	15.88	1.27	0.4
100	90	100	8.20-12.5	6557.1	22.86	10.16	25.4	12.7	0.79	0.25
120	75	120	9.84-15.0	7868.6	19.05	9.525	21.59	12.06	0.69	0.22
140	62	140	11.9-18.0	9487.7	15.8	7.899	17.83	9.93	0.46	0.14
180	51	180	14.5-22.0	11571	12.95	6.477	14.99	8.51	0.39	0.12
220	42	220	17.6-26.7	14051	10.67	4.318	12.7	6.35	0.31	0.1
260	34	260	21.7-33.0	17357	8.636	4.318	10.67	6.35	0.27	0.08
320	28	320	26.4-40.0	21077	7.112	3.556	9.14	5.59	0.23	0.07
400	22	400	32.9-50.1	26344	5.69	2.845	7.72	4.88	0.2	0.06
500	18	500	39.2-59.6	31392	4.775	2.388	6.81	4.42	0.17	0.05
620	14	620	49.8-75.8	39877	3.759	1.88	5.79	3.91	0.15	0.05
740	12	740	60.5-91.9	48369	3.0988	1.5494	5.13	3.58	0.13	0.04
900	10	900	73.8-112	59014	2.54	1.27	4.57	3.3	0.11	0.04

**Features:**

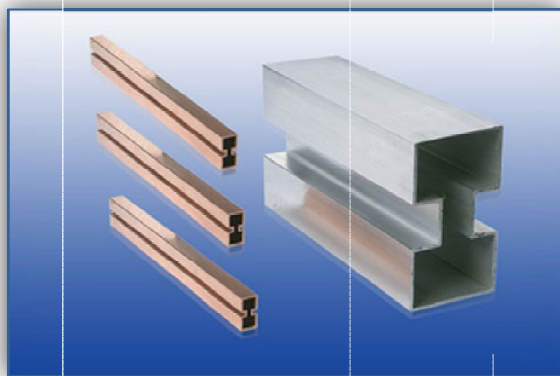
- Material : 3A21 AL , 6063 AL , 96 Cu

**Flat Rectangular Rigid Waveguide Tube**

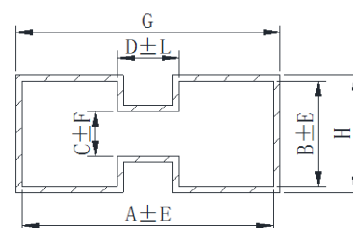
WG Designation			Frequency	Inside dimension		Wall thickness	Material
R	WR	BJ		a	b		
84	112	84	6.57-9.99	28.499	5	1.2	Cu/Al
70	137	70	5.38-8.17	34.85	5	1.2 , 1.625	Cu/Al
58	159	58	4.64-7.05	40.39	5	1.625	Cu/Al
48	187	48	3.94-5.99	47.55	5.7	1.2 , 1.625	Cu/Al
40	229	40	3.22-4.90	58.17	7	2.03	Cu/Al
32	284	32	2.60-3.95	72.14	8.6	2.03	Cu/Al
26	340	26	2.17-3.30	86.36	10.4	2.03	Cu/Al
22	430	22	1.72-2.61	109.22	13.1	2.03	Cu/Al

Medium Flat Rectangular Rigid Waveguide Tube

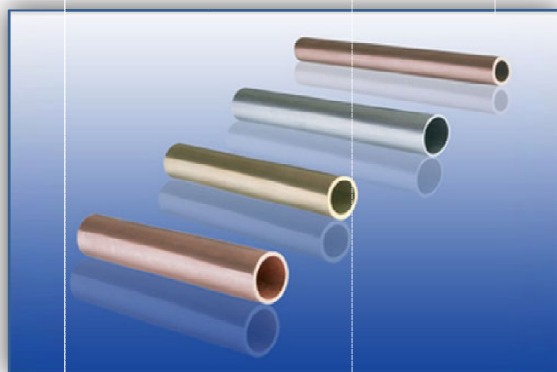
WG Designation			Frequency	Inside dimension		Wall thickness	Material
R	WR	BJ		a	b		
100	90	100	8.20-12.5	22.86	5	1 , 1.27	Cu/Al
70	137	70	5.38-8.17	34.85	8.7	1.625	Cu/Al
58	159	58	4.64-7.05	40.386	10.1	2	Cu/Al
48	187	48	3.94-5.99	47.549	11.9	1.2 , 1.625	Cu/Al
40	229	40	3.22-4.90	58.1	14.5	1.625	Cu/Al

**Features:**

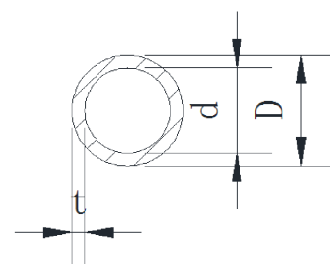
- Material : 3A21 AL , 6063 AL , 96 Cu

**Double Ridge Rigid Waveguide Tube**

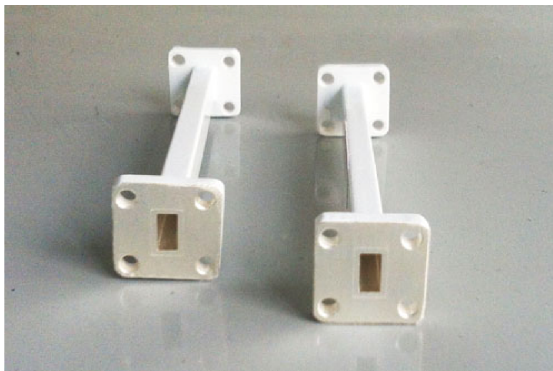
Type	Inside dimension (mm)				Material
	a	b	H	L	
24JS175	753.54	350.39	188.39	0.25	Cu/Al
24JS267	493.47	229.46	123.37	0.18	Cu/Al
24JS420	313.26	145.72	78.31	0.13	Cu/Al
24JS640	205.74	95.68	51.44	0.1	Cu/Al
24JS840	156.64	72.85	39.17	0.08	Cu/Al
24JS1500	87.76	40.82	21.946	0.08	Cu/Al
24JS2000	65.79	30.61	16.46	0.05	Cu/Al
24JS3500	37.59	17.48	9.398	0.05	Cu/Al
24JS4750	27.59	12.85	6.91	0.05	Cu/Al
24JS7500	17.55	8.15	4.39	0.05	Cu/Al
24JS11000	11.96	5.56	2.997	0.05	Cu/Al
24JS18000	7.32	3.4	1.829	0.05	Cu/Al
WRD650	18.29	8.13	4.39	0.05	Cu/Al

**Features:**

- Material : 3A21 AL , 6063 AL , 96 Cu

**Circular Rigid Waveguide Tubing**

Overall Diameter (mm)		Wall Thickness (mm)					
Nominal Size	Allowable Deviation (±)	0.5	0.75	1	1.25	1.5	2
		Allowable Deviation (±)					
3—15	0.05	0.05	0.06	0.08	0.08	0.09	0.09
15—25	0.06	0.05	0.06	0.08	0.08	0.1	0.1
25—50	0.08			0.08	0.08	0.1	0.1
50—75	0.1			0.12	0.12	0.1	0.15
75—100	0.13			0.12	0.12	0.13	0.15

**Features:**

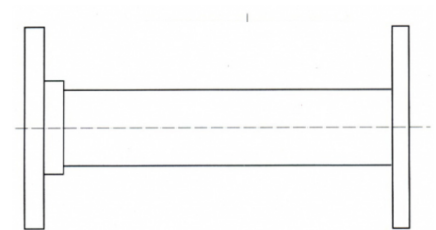
- Low VSWR
- Low Insertion loss
- High Power
- Can do the Frequency upon request
- Can design Length and Flange upon request
- Alternate Material and Finish available upon request

Material

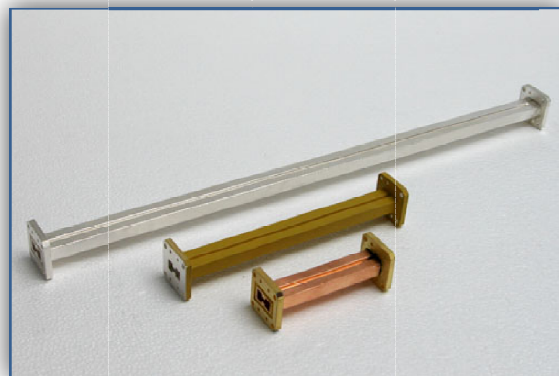
- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

**Straight Waveguide - Rectangular**

WG Designation			Frequency (GHz)	P/N
BJ	WR	R		
14	650	14	1.13-1.73	HC-14WG
18	510	18	1.45-2.20	HC-18WG
22	430	22	1.72-2.61	HC-22WG
26	340	26	2.17-3.30	HC-26WG
32	284	32	2.60-3.95	HC-32WG
40	229	40	3.22-4.90	HC-40WG
48	187	48	3.94-5.99	HC-48WG
58	159	58	4.64-7.05	HC-58WG
70	137	70	5.38 - 8.17	HC-70WG
84	112	84	6.57-10.00	HC-84WG
100	90	100	8.20-12.50	HC-100WG
120	75	120	9.84-15.00	HC-120WG
140	62	140	11.90-18.00	HC-140WG
180	51	180	14.50-22.00	HC-180WG
220	42	220	17.60-26.70	HC-220WG
260	34	260	21.70-33.00	HC-260WG
320	28	320	26.30-40.00	HC-320WG
400	22	400	32.90-50.10	HC-400WG

**Straight Waveguide -Circular**

P/N	Frequency (GHz)
HC-14CWG	1.29-1.76
HC-18CWG	1.76-2.42
HC-22CWG	2.07-2.83
HC-25CWG	2.42-3.31
HC-30CWG	2.83-3.88
HC-40CWG	3.89-5.33
HC-48CWG	4.54-6.23
HC-56CWG	5.30-7.27
HC-65CWG	6.21- 8.51
HC-76CWG	7.27-9.97
HC-89CWG	8.49-11.6
HC-120CWG	11.6-15.90
HC-140CWG	13.4-18.4
HC-165CWG	15.9-21.8
HC-220CWG	21.2-29.1
HC-255CWG	24.3-33.2
HC-290CWG	28.3-38.8
HC-388CWG	36.4-49.8

Straight Waveguide -Double Ridge

P/N	Frequency (GHz)
HC-175DRWG	0.175 - 0.42
HC-267DRWG	0.267 - 0.64
HC-420DRWG	0.420 - 1.00
HC-640DRWG	0.640 - 1.53
HC-840DRWG	0.840 - 2.00
HC-1500DRWG	1.500 - 3.60
HC-2000DRWG	2.000 - 4.80
HC-3500DRWG	3.500 - 8.20
HC-4750DRWG	4.75 - 11.0
HC-7500DRWG	7.50 - 18.00
HC-11000DRWG	11.00 - 26.5
HC-18000DRWG	18.00 -40.00

**Features:**

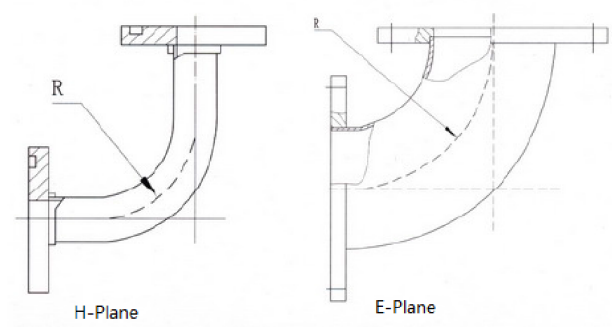
- Low VSWR
- Low Insertion loss
- High Power
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Material

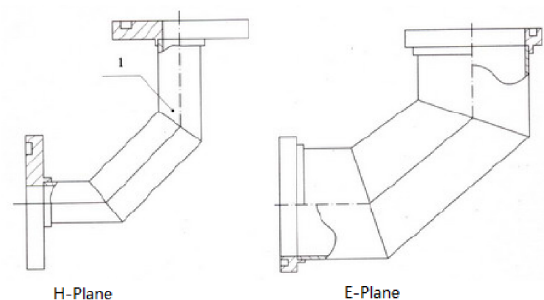
- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

**E/H Bend Waveguide**

WG Designation			Frequency (GHz)	E Bend P/N	H Bend P/N	VSWR (dB)
BJ	WR	R				
14	650	14	1.13-1.73	HC-14WEB	HC-14WHB	Single Bend ≤1.10
18	510	18	1.45-2.20	HC-18WEB	HC-18WHB	
22	430	22	1.72-2.61	HC-22WEB	HC-22WHB	
26	340	26	2.17-3.30	HC-26WEB	HC-26WHB	
32	284	32	2.60-3.95	HC-32WEB	HC-32WHB	
40	229	40	3.22-4.90	HC-40WEB	HC-40WHB	
48	187	48	3.94-5.99	HC-48WEB	HC-48WHB	
58	159	58	4.64-7.05	HC-58WEB	HC-58WHB	
70	137	70	5.38 - 8.17	HC-70WEB	HC-70WHB	
84	112	84	6.57-10.00	HC-84WEB	HC-84WHB	
100	90	100	8.20-12.50	HC-100WEB	HC-100WHB	More than Single Bend ≤1.20
120	75	120	9.84-15.00	HC-120WEB	HC-120WHB	
140	62	140	11.90-18.00	HC-140WEB	HC-140WHB	
180	51	180	14.50-22.00	HC-180WEB	HC-180WHB	
220	42	220	17.60-26.70	HC-220WEB	HC-220WHB	
260	34	260	21.70-33.00	HC-260WEB	HC-260WHB	
320	28	320	26.30-40.00	HC-320WEB	HC-320WHB	
400	22	400	32.90-50.10	HC-400WEB	HC-400WHB	



E/H Bend Waveguide - Miter

WG Designation			Frequency (GHz)	E Bend P/N	H Bend P/N	VSWR (dB)
BJ	WR	R				
14	650	14	1.13-1.73	HC-14WTEB	HC-14WTHB	Single Bend ≤1.10
18	510	18	1.45-2.20	HC-18WTEB	HC-18WTHB	
22	430	22	1.72-2.61	HC-22WTEB	HC-22WTHB	
26	340	26	2.17-3.30	HC-26WTEB	HC-26WTHB	
32	284	32	2.60-3.95	HC-32WTEB	HC-32WTHB	
40	229	40	3.22-4.90	HC-40WTEB	HC-40WTHB	
48	187	48	3.94-5.99	HC-48WTEB	HC-48WTHB	
58	159	58	4.64-7.05	HC-58WTEB	HC-58WTHB	
70	137	70	5.38 - 8.17	HC-70WTEB	HC-70WTHB	
84	112	84	6.57-10.00	HC-84WTEB	HC-84WTHB	
100	90	100	8.20-12.50	HC-100WTEB	HC-100WTHB	More than Single Bend ≤1.20
120	75	120	9.84-15.00	HC-120WTEB	HC-120WTHB	
140	62	140	11.90-18.00	HC-140WTEB	HC-140WTHB	
180	51	180	14.50-22.00	HC-180WTEB	HC-180WTHB	
220	42	220	17.60-26.70	HC-220WTEB	HC-220WTHB	
260	34	260	21.70-33.00	HC-260WTEB	HC-260WTHB	
320	28	320	26.30-40.00	HC-320WTEB	HC-320WTHB	
400	22	400	32.90-50.10	HC-400WTEB	HC-400WTHB	

**Features:**

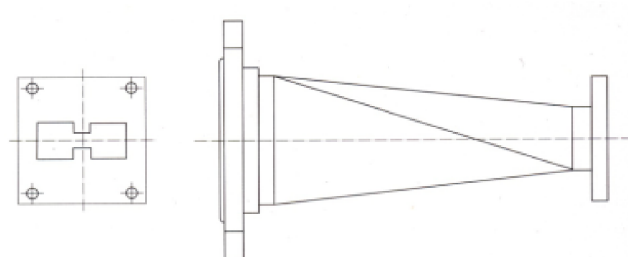
- Low VSWR ;low Insertion loss
- High Power
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Material

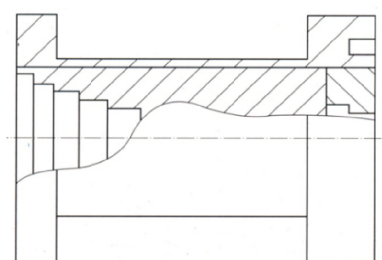
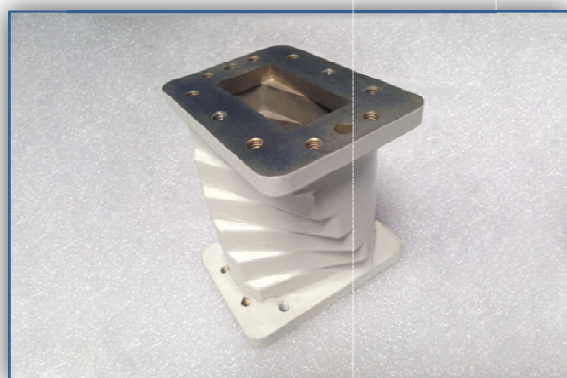
- Aluminum
- Copper

Finish

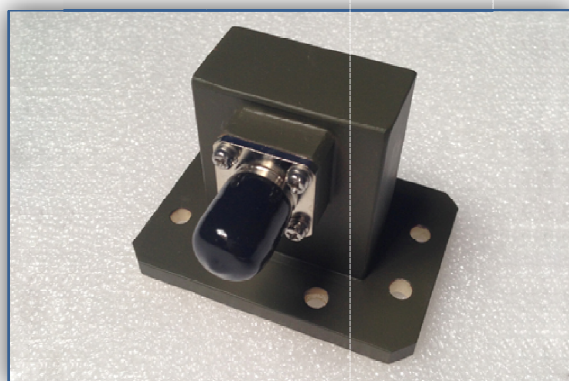
- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

**Twist Waveguide**

WG Designation			Frequency (GHz)	P/N	Length (mm)	VSWR (dB)
BJ	WR	R				
22	430	22	1.72-2.61	HC-22WG	780	≤1.08
26	340	26	2.17-3.30	HC-26WG	450	≤1.08
32	284	32	2.60-3.95	HC-32WG	385	≤1.08
40	229	40	3.22-4.90	HC-40WG	315	≤1.08
48	187	48	3.94-5.99	HC-48WG	255	≤1.08
58	159	58	4.64-7.05	HC-58WG	215	≤1.08
70	137	70	5.38 - 8.17	HC-70WG	185	≤1.08
84	112	84	6.57-10.00	HC-84WG	150	≤1.08
100	90	100	8.20-12.50	HC-100WG	125	≤1.08
120	75	120	9.84-15.00	HC-120WG	105	≤1.08
140	62	140	11.90-18.00	HC-140WG	85	≤1.08
180	51	180	14.50-22.00	HC-180WG	80	≤1.08
220	42	220	17.60-26.70	HC-220WG	70	≤1.08
260	34	260	21.70-33.00	HC-260WG	65	≤1.08
320	28	320	26.30-40.00	HC-320WG	65	≤1.08
400	22	400	32.90-50.10	HC-400WG	60	≤1.08

**Twist Waveguide - Stairs**

WG Designation			Frequency (GHz)	P/N	Length (mm)	VSWR (dB)
BJ	WR	R				
22	430	22	1.72-2.61	HC-22WG	275	≤1.08
26	340	26	2.17-3.30	HC-26WG	155	≤1.08
32	284	32	2.60-3.95	HC-32WG	125	≤1.08
40	229	40	3.22-4.90	HC-40WG	105	≤1.08
48	187	48	3.94-5.99	HC-48WG	85	≤1.08
58	159	58	4.64-7.05	HC-58WG	70	≤1.08
70	137	70	5.38 - 8.17	HC-70WG	65	≤1.08
84	112	84	6.57-10.00	HC-84WG	50	≤1.08
100	90	100	8.20-12.50	HC-100WG	40	≤1.08
120	75	120	9.84-15.00	HC-120WG	35	≤1.08
140	62	140	11.90-18.00	HC-140WG	30	≤1.08
180	51	180	14.50-22.00	HC-180WG	28	≤1.08
220	42	220	17.60-26.70	HC-220WG	20	≤1.08
260	34	260	21.70-33.00	HC-260WG	17	≤1.08
320	28	320	26.30-40.00	HC-320WG	13	≤1.08
400	22	400	32.90-50.10	HC-400WG	12	≤1.08

**Features:**

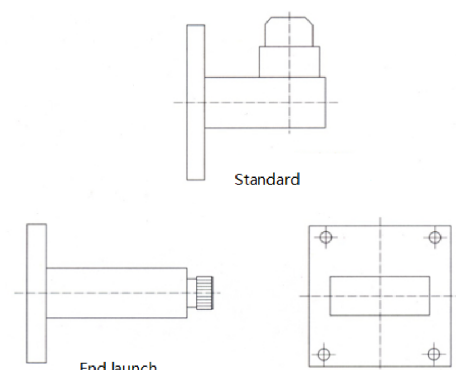
- Low VSWR
- Low Insertion loss
- Small dimension
- High power
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Material

- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

**Waveguide to Coaxial Transition (Adapter)**

WG Designation		Frequency (Ghz)	Flange Type	Adapter	VSWR (dB)
WR	R				
650	14	1.13-1.73	CPR650	N(f)	1.25
510	18	1.45-2.20	CPR510	N(f)	1.25
430	22	1.7-2.6	CPR430矩	N(f)	1.25
340	26	2.2-3.3	CPR340	N(f)	1.25
284	32	2.6-3.95	CPR284	N(f)	1.25
229	40	3.6-4.2	CPR229	N(f)	1.25
187	48	3.95-5.85	CPR187	N(f)	1.25
159	58	4.9-7.05	CPR159	N(f)	1.25
137	70	5.8-8.2	CPR137	N(f)	1.25
112	84	7.5-10.0	CPR112	N(f)	1.25
90	100	8.2-12.4	UG39/U	N(f)	1.25
75	120	10.0-15.0	UBR120	N(f)	1.25
62	140	12.4-18	UG419/U	N(f)	1.25
51	180	15-22	UBR180	SMA(f)	1.25
42	220	18-26.5	UG595/U	K(f)	1.25
34	260	22-33	UBR260	K(f)	1.25
28	320	26.5-40	UG599/U	K(f)	1.25
22	400	32.9-50.1	CPR22	SMA(f)	1.35

**Features:**

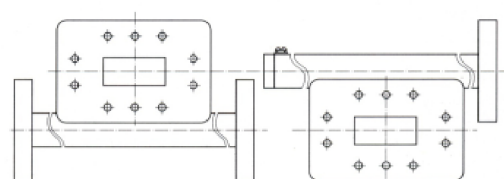
- Low VSWR
- High Coupling
- High Power
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Material

- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

**Cross Guide Couplers**

WG Designation			Frequency (GHz)	Coupling Range (dB)	Directivity (dB)	Bandwidth (%)	VSWR(dB)	
BJ	WR	R					Mainline	Secondline
14	650	14	1.13-1.73	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
18	510	18	1.45-2.20	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
22	430	22	1.72-2.61	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
26	340	26	2.17-3.30	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
32	284	32	2.60-3.95	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
40	229	40	3.22-4.90	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
48	187	48	3.94-5.99	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
58	159	58	4.64-7.05	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
70	137	70	5.38 - 8.17	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
84	112	84	6.57-10.00	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
100	90	100	8.20-12.50	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
120	75	120	9.84-15.00	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
140	62	140	11.90-18.00	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
180	51	180	14.50-22.00	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
220	42	220	17.60-26.70	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
260	34	260	21.70-33.00	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
320	28	320	26.30-40.00	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10
400	22	400	32.90-50.10	-15~-60	≥ 20	15 ~ 20	≤ 1.05	≤ 1.10



Features:

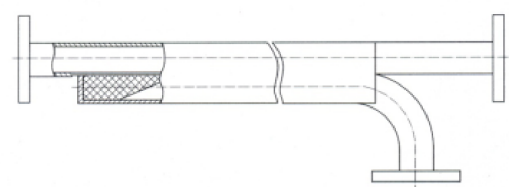
- Low VSWR ; Low insertion loss
- High Coupling
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Material

- Aluminum
- Copper

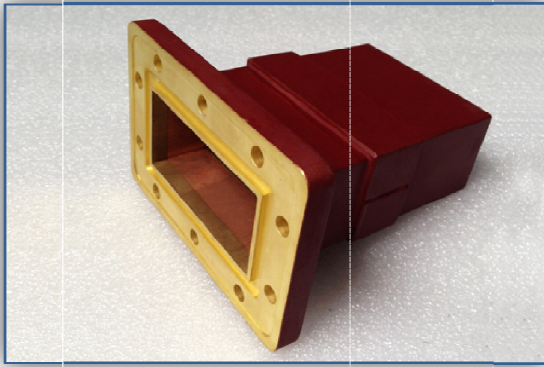
Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted



Broadwall Coupler(WG Coupler - High Directional)

WG Designation			Frequency (GHz)	Coupling Range (dB)	Directivity (dB)	VSWR(dB)	
BJ	WR	R				Mainline	Secondline
14	650	14	1.13-1.73	-3 ± 0.5 -6 ± 0.5 -10 ± 0.5 -15 ± 0.5 -20 ± 0.5	≥ 37	≤ 1.05	≤ 1.10
18	510	18	1.45-2.20		≥ 37	≤ 1.05	≤ 1.10
22	430	22	1.72-2.61		≥ 37	≤ 1.05	≤ 1.10
26	340	26	2.17-3.30		≥ 37	≤ 1.05	≤ 1.10
32	284	32	2.60-3.95		≥ 37	≤ 1.05	≤ 1.10
40	229	40	3.22-4.90		≥ 37	≤ 1.05	≤ 1.10
48	187	48	3.94-5.99		≥ 37	≤ 1.05	≤ 1.10
58	159	58	4.64-7.05		≥ 37	≤ 1.05	≤ 1.10
70	137	70	5.38 - 8.17		≥ 37	≤ 1.05	≤ 1.10
84	112	84	6.57-10.00		≥ 37	≤ 1.05	≤ 1.10
100	90	100	8.20-12.50		≥ 37	≤ 1.05	≤ 1.10
120	75	120	9.84-15.00		≥ 37	≤ 1.05	≤ 1.10
140	62	140	11.90-18.00		≥ 37	≤ 1.05	≤ 1.10
180	51	180	14.50-22.00		≥ 37	≤ 1.05	≤ 1.10
220	42	220	17.60-26.70		≥ 37	≤ 1.05	≤ 1.10
260	34	260	21.70-33.00		≥ 37	≤ 1.05	≤ 1.10
320	28	320	26.30-40.00		≥ 37	≤ 1.05	≤ 1.10
400	22	400	32.90-50.10		≥ 37	≤ 1.05	≤ 1.10

**Features:**

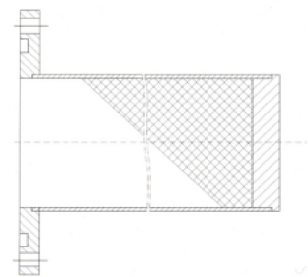
- Low VSWR
- Short Length;
- Can do the Frequency upon request
- Can do the Length and Flange upon request
- Alternate Material and Finish available upon request

Material

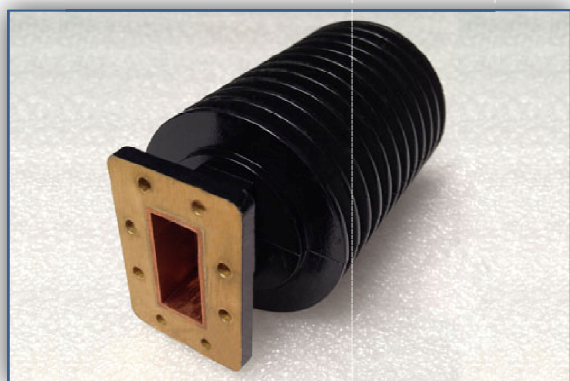
- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

**Termination -Low Power (Load)**

WG Designation			Frequency (GHz)	VSWR (dB)	Length (mm)
BJ	WR	R			
14	650	14	1.13-1.73	≤1.03	700
18	510	18	1.45-2.20	≤1.03	500
22	430	22	1.72-2.61	≤1.03	400
26	340	26	2.17-3.30	≤1.03	350
32	284	32	2.60-3.95	≤1.03	340
40	229	40	3.22-4.90	≤1.03	300
48	187	48	3.94-5.99	≤1.03	250
58	159	58	4.64-7.05	≤1.03	210
70	137	70	5.38 - 8.17	≤1.03	180
84	112	84	6.57-10.00	≤1.03	150
100	90	100	8.20-12.50	≤1.03	120
120	75	120	9.84-15.00	≤1.03	110
140	62	140	11.90-18.00	≤1.03	100
180	51	180	14.50-22.00	≤1.03	90
220	42	220	17.60-26.70	≤1.03	80
260	34	260	21.70-33.00	≤1.03	75
320	28	320	26.30-40.00	≤1.03	70
400	22	400	32.90-50.10	≤1.03	65

**Features:**

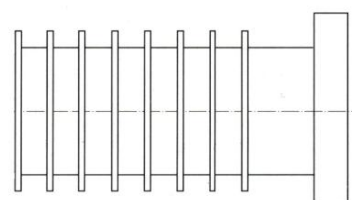
- Low VSWR
- Low Insertion loss
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Material

- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

**Termination - High Power (Load)**

WG Designation			Frequency (GHz)	VSWR (dB)	Average Power (W)
BJ	WR	R			
14	650	14	1.13-1.73	≤1.10	3800
18	510	18	1.45-2.20	≤1.10	3800
22	430	22	1.72-2.61	≤1.10	3500
26	340	26	2.17-3.30	≤1.10	3500
32	284	32	2.60-3.95	≤1.10	3300
40	229	40	3.22-4.90	≤1.10	3300
48	187	48	3.94-5.99	≤1.10	3000
58	159	58	4.64-7.05	≤1.10	2500
70	137	70	5.38 - 8.17	≤1.10	2000
84	112	84	6.57-10.00	≤1.10	1800
100	90	100	8.20-12.50	≤1.10	1500
120	75	120	9.84-15.00	≤1.10	1200
140	62	140	11.90-18.00	≤1.10	1000
180	51	180	14.50-22.00	≤1.10	800
220	42	220	17.60-26.70	≤1.10	500
260	34	260	21.70-33.00	≤1.10	400
320	28	320	26.30-40.00	≤1.10	250
400	22	400	32.90-50.10	≤1.10	230

**Features:**

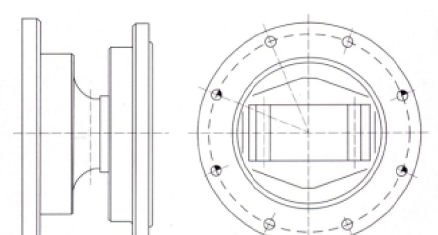
- Customization
- Low VSWR
- Low Insertion loss
- Small overall dimension

Material

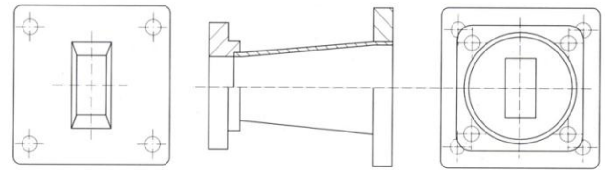
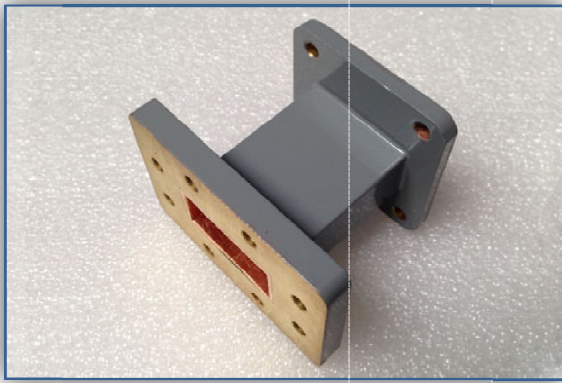
- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

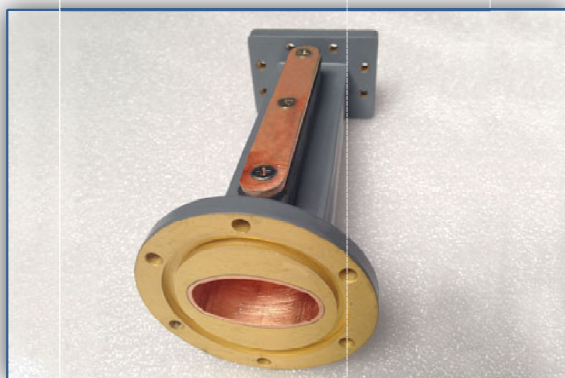
**Transition - Rectangular to Circular**

WG Designation			Frequency (GHz)	P/N	Length (mm)	VSWR (dB)	Bandwidth (%)
BJ	WR	R					
14	650	14	1.13-1.73	HC-14/14WG	650	≤1.05	10
18	510	18	1.45-2.20	HC-18/18WG	500		
22	430	22	1.72-2.61	HC-22/22WG	450		
26	340	26	2.17-3.30	HC-26/25WG	400		
32	284	32	2.60-3.95	HC-32/30WG	335	≤1.06	
40	229	40	3.22-4.90	HC-40/40WG	260		
48	187	48	3.94-5.99	HC-48/48WG	210		
58	159	58	4.64-7.05	HC-58/56WG	170		
70	137	70	5.38 - 8.17	HC-70/65WG	140		
84	112	84	6.57-10.00	HC-84/76WG	120		
100	90	100	8.20-12.50	HC-100/89WG	110		
120	75	120	9.84-15.00	HC-120/120WG	90		
140	62	140	11.90-18.00	HC-140/140WG	90	≤1.07	
180	51	180	14.50-22.00	HC-180/165WG	75		
220	42	220	17.60-26.70	HC-220/220WG	75		
260	34	260	21.70-33.00	HC-260/255WG	60		
320	28	320	26.30-40.00	HC-320/290WG	60		
400	22	400	32.90-50.10	HC-400/380WG	60		



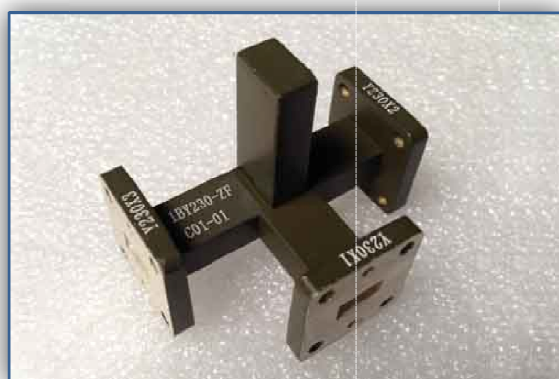
Transition - Rectangular to Rectangular

WG Designation			Frequency (GHz)	P/N	Length (mm)	VSWR (dB)
BJ	WR	R				
14	650	14	1.13-1.73	HC-12/14WG	600	≤1.05
18	510	18	1.45-2.20	HC-14/18WG	460	
22	430	22	1.72-2.61	HC-18/22WG	410	
26	340	26	2.17-3.30	HC-22/26WG	380	
32	284	32	2.60-3.95	HC-26/32WG	250	≤1.06
40	229	40	3.22-4.90	HC-32/40WG	200	
48	187	48	3.94-5.99	HC-40/48WG	200	
58	159	58	4.64-7.05	HC-48/58WG	180	
70	137	70	5.38 - 8.17	HC-58/70WG	150	
84	112	84	6.57-10.00	HC-70/84WG	130	
100	90	100	8.20-12.50	HC-84/100WG	100	
120	75	120	9.84-15.00	HC-100/120WG	80	
140	62	140	11.90-18.00	HC-120/140WG	75	≤1.07
180	51	180	14.50-22.00	HC-140/180WG	60	
220	42	220	17.60-26.70	HC-180/220WG	50	
260	34	260	21.70-33.00	HC-220/260WG	50	
320	28	320	26.30-40.00	HC-260/320WG	50	
400	22	400	32.90-50.10	HC-320/400WG	50	



Transition - Rectangular to Elliptical

Frequency (GHz)	P/N	Length (mm)	VSWR (dB)	Bandwidth (%)
5.900-6.400	HC-70/62EW	134	≤1.07	10
6.400-7.100	HC-70/68EW	150		
7.125-7.725	HC-84/75EW	120		
7.725-8.275	HC-84/82EW	120		
8.275-8.725	HC-100/85EW	140		
10.700-11.700	HC-100/110EW	140		



Features:

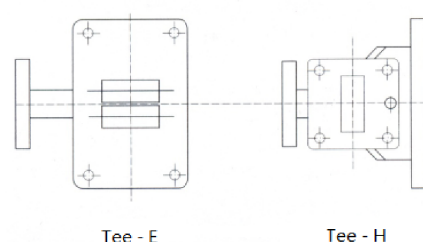
- Low VSWR
- Low Insertion loss
- High Isolation
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Material

- Aluminum
- Copper

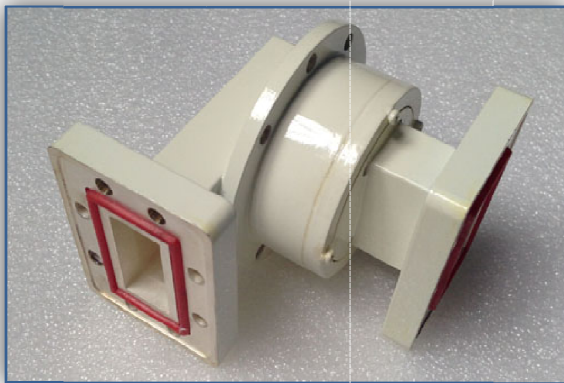
Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted



Magic Tees

WG Designation			Frequency (GHz)	Isolation (dB)	Balance (dB)	Bandwidth (%)	VSWR(dB)	
BJ	WR	R					E Plane	H Plane
14	650	14	1.13-1.73	≥ 35	± 0.3	10 ~ 20	≤ 1.50	≤ 1.20
18	510	18	1.45-2.20	≥ 35	± 0.3	10 ~ 20		
22	430	22	1.72-2.61	≥ 35	± 0.3	10 ~ 20		
26	340	26	2.17-3.30	≥ 35	± 0.3	10 ~ 20		
32	284	32	2.60-3.95	≥ 35	± 0.3	10 ~ 20		
40	229	40	3.22-4.90	≥ 35	± 0.3	10 ~ 20	≤ 1.30	≤ 1.20
48	187	48	3.94-5.99	≥ 35	± 0.3	10 ~ 20		
58	159	58	4.64-7.05	≥ 35	± 0.3	10 ~ 20		
70	137	70	5.38 - 8.17	≥ 35	± 0.3	10 ~ 20		
84	112	84	6.57-10.00	≥ 35	± 0.3	10 ~ 20		
100	90	100	8.20-12.50	≥ 35	± 0.3	10 ~ 20	≤ 1.50	≤ 1.20
120	75	120	9.84-15.00	≥ 35	± 0.3	10 ~ 20		
140	62	140	11.90-18.00	≥ 35	± 0.3	10 ~ 20		
180	51	180	14.50-22.00	≥ 35	± 0.3	10 ~ 20		
220	42	220	17.60-26.70	≥ 30	± 0.3	10 ~ 20		
260	34	260	21.70-33.00	≥ 30	± 0.3	10 ~ 20	≤ 1.50	≤ 1.20
320	28	320	26.30-40.00	≥ 30	± 0.3	10 ~ 20		
400	22	400	32.90-50.10	≥ 30	± 0.3	10 ~ 20		



Features:

- Low VSWR
- Low Insertion loss
- High power
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Material

- Aluminum
- Copper

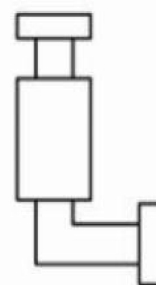
Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

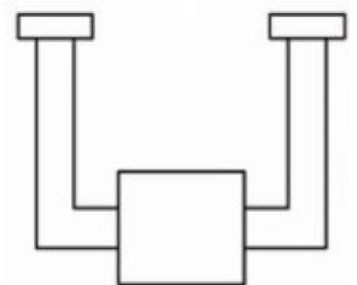
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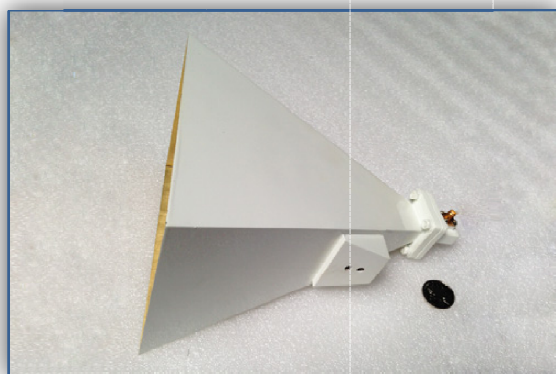


L Type



U Type



**Features:**

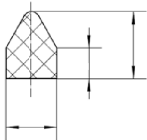
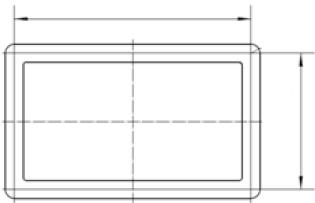
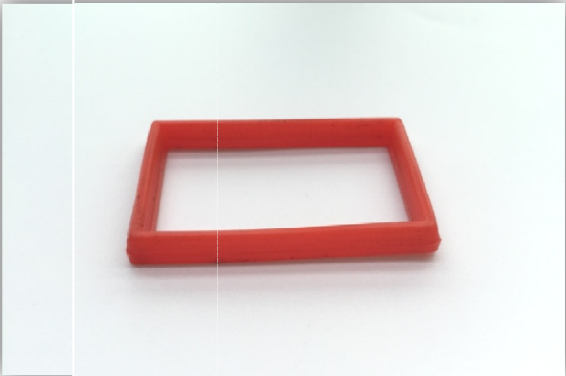
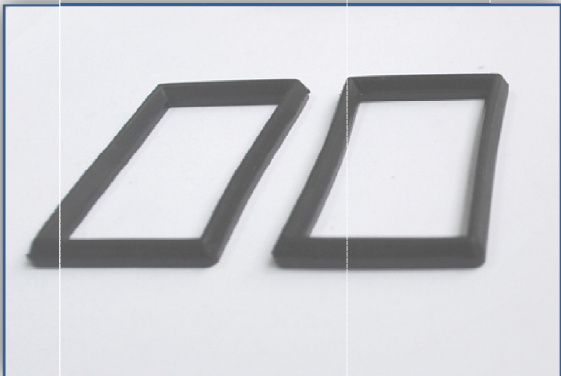
- Reliable structure
- Stable performance
- Accurate calibration
- High linear polarization purity

Standard Gain Horn Antenna

WG Designation			Frequency (GHz)	Series 10 dB		Series 15 dB	
				Lobewidth: 55°		Lobewidth: 30°	
				P/N	Connector	P/N	Connector
14	650	14	1.13-1.73	HC-14HA10	N	HC-14HA15	N
18	510	18	1.45-2.20	HC-18HA10	N	HC-18HA15	N
22	430	22	1.72-2.61	HC-22HA10	N	HC-22HA15	N
26	340	26	2.17-3.30	HC-26HA10	N	HC-26HA15	N
32	284	32	2.60-3.95	HC-32HA10	N	HC-32HA15	N
40	229	40	3.22-4.90	HC-40HA10	N	HC-40HA15	N
48	187	48	3.94-5.99	HC-48HA10	N	HC-48HA15	N
58	159	58	4.64-7.05	HC-58HA10	N	HC-58HA15	N
70	137	70	5.38 - 8.17	HC-70HA10	N	HC-70HA15	N
84	112	84	6.57-10.00	HC-84HA10	N	HC-84HA15	N
100	90	100	8.20-12.50	HC-100HA10	N	HC-100HA15	N
120	75	120	9.84-15.00	HC-120HA10	SMA	HC-120HA15	SMA
140	62	140	11.90-18.00	HC-140HA10	SMA	HC-140HA15	SMA
180	51	180	14.50-22.00	HC-180HA10	K-2.92	HC-180HA15	K-2.92
220	42	220	17.60-26.70	HC-220HA10	K-2.92	HC-220HA15	K-2.92
260	34	260	21.70-33.00	HC-260HA10	K-2.92	HC-260HA15	K-2.92
320	28	320	26.30-40.00	HC-320HA10	K-2.92	HC-320HA15	K-2.92
400	22	400	32.90-50.10	HC-400HA10	K-2.92	HC-400HA15	K-2.92

Standard Gain Horn Antenna

WG Designation			Frequency (GHz)	Series 20 dB		Series 25 dB	
				Lobewidth: 18°		Lobewidth: 10°	
BJ	WR	R		P/N	Connector	P/N	Connector
14	650	14	1.13-1.73	-	-	-	-
18	510	18	1.45-2.20				
22	430	22	1.72-2.61				
26	340	26	2.17-3.30				
32	284	32	2.60-3.95	HC-32HA20	N		
40	229	40	3.22-4.90	HC-40HA20	N		
48	187	48	3.94-5.99	HC-48HA20	N		
58	159	58	4.64-7.05	HC-58HA20	N		
70	137	70	5.38 - 8.17	HC-70HA20	N		
84	112	84	6.57-10.00	HC-84HA20	N		
100	90	100	8.20-12.50	HC-100HA20	N	HC-100HA25	N
120	75	120	9.84-15.00	HC-120HA20	SMA	HC-120HA25	SMA
140	62	140	11.90-18.00	HC-140HA20	SMA	HC-140HA25	SMA
180	51	180	14.50-22.00	HC-180HA20	K-2.92	HC-180HA25	K-2.92
220	42	220	17.60-26.70	HC-220HA15	K-2.92	HC-220HA25	K-2.92
260	34	260	21.70-33.00	HC-260HA15	K-2.92	HC-260HA25	K-2.92
320	28	320	26.30-40.00	HC-320HA15	K-2.92	HC-320HA25	K-2.92
400	22	400	32.90-50.10	HC-400HA15	K-2.92	HC-400HA25	K-2.92



**Features:**

- Low VSWR
- Low Return loss
- High Isolation
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Finish

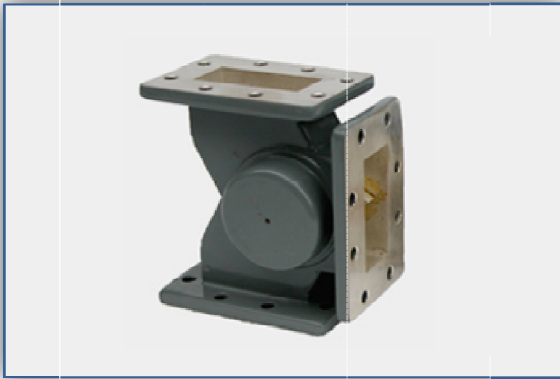
- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

Isolator

WG Designation			Frequency (GHz)	P/N	Bandwidth (%)	VSWR (dB)	Return loss (dB)	Isolation (dB)
BJ	WR	R						
32	284	32	2.60-3.95	HC-32ISO	8	≤1.15	≤0.30	≥20
40	229	40	3.22-4.90	HC-40ISO	6	≤1.15	≤0.30	≥20
48	187	48	3.94-5.99	HC-48ISO	9	≤1.15	≤0.30	≥20
58	159	58	4.64-7.05	HC-58ISO	9	≤1.15	≤0.30	≥20
70	137	70	5.38 - 8.17	HC-70ISO	9	≤1.15	≤0.30	≥20
84	112	84	6.57-10.00	HC-84ISO	7	≤1.15	≤0.30	≥20
100	90	100	8.20-12.50	HC-100ISO	7	≤1.15	≤0.30	≥20
120	75	120	9.84-15.00	HC-120ISO	7	≤1.15	≤0.30	≥20
140	62	140	11.90-18.00	HC-140ISO	6	≤1.15	≤0.30	≥20
180	51	180	14.50-22.00	HC-180ISO	4	≤1.15	≤0.30	≥20
220	42	220	17.60-26.70	HC-220ISO	8	≤1.25	≤0.35	≥20
260	34	260	21.70-33.00	HC-260ISO	6	≤1.25	≤0.35	≥20
320	28	320	26.30-40.00	HC-320ISO	5	≤1.25	≤0.35	≥20
400	22	400	32.90-50.10	HC-400ISO	5	≤1.30	≤0.40	≥20

**Features:**

- Low VSWR
- Low Return loss
- High Isolation
- Can do the Frequency upon request
- Can design Overall Dimension and Flange upon request
- Alternate Material and Finish available upon request

Finish

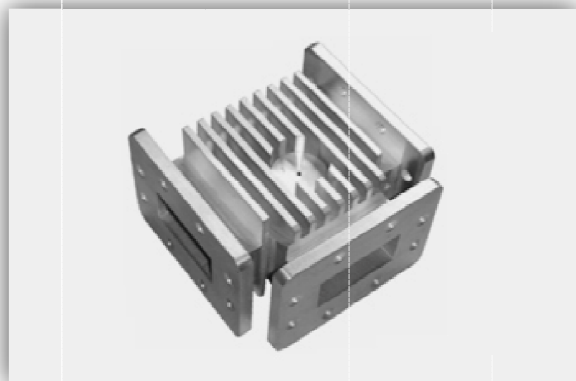
- Aluminum
- Copper

Finish

- Silver
- Nickel
- Oxidation
- Deactivation
- Painted

Circulator

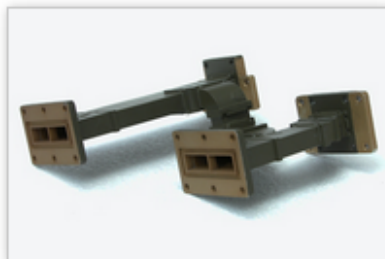
WG Designation			Frequency (GHz)	P/N	Bandwidth (%)	VSWR (dB)	Return loss (dB)	Isolation (dB)
BJ	WR	R						
32	284	32	2.60-3.95	HC-32WCI	8	≤1.15	≤0.30	≥20
40	229	40	3.22-4.90	HC-40WCI	6	≤1.15	≤0.30	≥20
48	187	48	3.94-5.99	HC-48WCI	9	≤1.15	≤0.30	≥20
58	159	58	4.64-7.05	HC-58WCI	9	≤1.15	≤0.30	≥20
70	137	70	5.38 - 8.17	HC-70WCI	9	≤1.15	≤0.30	≥20
84	112	84	6.57-10.00	HC-84WCI	7	≤1.15	≤0.30	≥20
100	90	100	8.20-12.50	HC-100WCI	7	≤1.15	≤0.30	≥20
120	75	120	9.84-15.00	HC-120WCI	7	≤1.15	≤0.30	≥20
140	62	140	11.90-18.00	HC-140WCI	6	≤1.15	≤0.30	≥20
180	51	180	14.50-22.00	HC-180WCI	4	≤1.15	≤0.30	≥20
220	42	220	17.60-26.70	HC-220WCI	8	≤1.15	≤0.35	≥20
260	34	260	21.70-33.00	HC-260WCI	6	≤1.15	≤0.35	≥20
320	28	320	26.30-40.00	HC-320WCI	5	≤1.15	≤0.35	≥20
400	22	400	32.90-50.10	HC-400WCI	5	≤1.15	≤0.40	≥20

**Circulator-High Power**

WG Designation			Frequency (GHz)	P/N	Average Power (W)	VSWR (dB)	Return loss (dB)	Isolation (dB)
BJ	WR	R						
32	284	32	2.60-3.95	HC-32WHCI	2000	≤ 1.15	≤ 0.50	≥ 20
40	229	40	3.22-4.90	HC-40WHCI	2000	≤ 1.15	≤ 0.30	≥ 20
48	187	48	3.94-5.99	HC-48WHCI	1500	≤ 1.15	≤ 0.40	≥ 20
58	159	58	4.64-7.05	HC-58WHCI	1500	≤ 1.15	≤ 0.30	≥ 20
70	137	70	5.38 - 8.17	HC-70WHCI	1300	≤ 1.15	≤ 0.50	≥ 20
84	112	84	6.57-10.00	HC-84WHCI	1200	≤ 1.15	≤ 0.40	≥ 20
100	90	100	8.20-12.50	HC-100WHCI	1000	≤ 1.15	≤ 0.40	≥ 20
120	75	120	9.84-15.00	HC-120WHCI	900	≤ 1.15	≤ 0.50	≥ 20



8mm Waveguide



Bridge waveguide



Custom Rotary Joints



Custom Rotary Joints



Custom Waveguide



Custom Waveguide Assemblies



Custom Waveguide Assemblies



Dual channels rotary joints



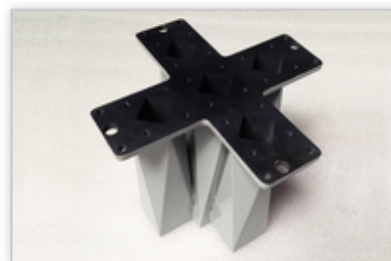
Feed



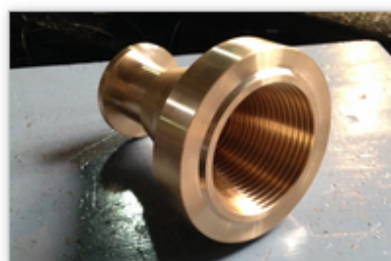
Feed



Four channels rotary joints



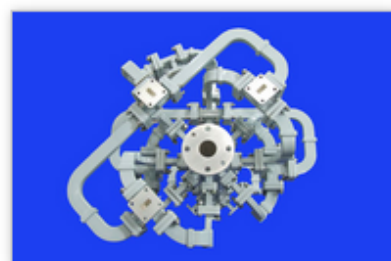
Horns



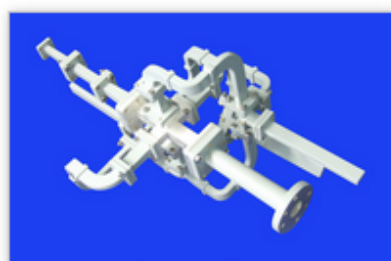
Scalar feed horns



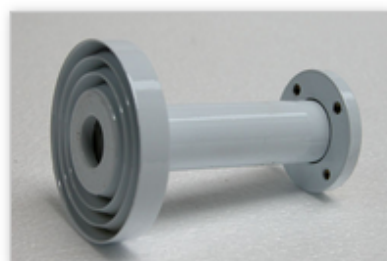
Three channels rotary joints



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