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MICROTECH, INC. SALES REPRESENTATIVES

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FL, MS	EOX Sales	14344 83 PL N. Seminole, Florida 33776	727-667-6599	856-231-9022	www.eoxsales.com jimd@exosales.com
IL, IN, IA, MI, MN, MO, ND, OH, PA, SD, WI	KJS Marketing	3008 Sutton Boulevard Maplewood, MO 63143	314-669-9800	314-669-9801	www.kjsmarketing.com larry@kjsmarketing.com
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AK, HI	Microtech, Inc.	1425 Highland Avenue Cheshire, CT 06410	203-272-3234	203-271-0352	www.microtech-inc.com sales@microtech-inc.com

INTERNATIONAL

Territory	Representative	Address	Phone No.	Fax No.	Web/E-Mail
Sweden, Norway Finland, Denmark	Compomill Nordic Components AB	Dragonvagen 42 194 33 Uplands Vasby, Sweden	+46 8 594 111 50	+46 8 594 211 60	www.compomill.com sales@compomill.com
India	Hicotronics Devices PVT LTD	New Timber Layout, Near Satellite Bus Stand, Mysore Road Cross, Bangalore - 560026 Karnataka, India	+91-80-26982 800 - 99	+91-80-2674 0102	www.hicotronics.com schopra@hicotronics.com
Czech, Hungary Poland, Slovakia	Transtech Electronics s.r.o.	Hnevkovska 58, 148 00 Praha 4, Czech Republic	+420-261 221 039	+420 261 221 040	www.transtech.cz tte@transtech.cz
Australia	Stanford Technologies	737 Burwood Road Hawthorn 3122 Victoria, Australia	+04 1283 6670		www.stanford.net.au sales@stanford.net.au
Israel	Deh-Ron	2 Eliyahu Beit Tsur Street Tel-Aviv-Yafo 6912202, Israel	+972-773298933	+972-153773298933	www.dehron.com eyal@dehron.com
Italy	MED Technology	Via dell'Elettronica 20 - 00144 Roma, Italia	+39 06-98183524	+39 06-5515916	www.medtechnology.it info@medtechnology.it
Switzerland	Transtech Hochfrequenz AG	Hardstrasse 41 CH-5430 Wettingen 2, Switzerland	41 56 427 18 93	41 56 426 71 23	www.transtech.cz walter.arnold@globes.de
Germany	Globes Elektronik	Berliner Platz 12, 74072 Heilbronn, Germany	49 -7131-7810 - 0	49 -7131-7810-20	www.globes.de walter.arnold@globes.de
France	AA MATECH	18 rue Nicolas Appert 91400, Orsay, France	+33 (0)1 69 85 45 45	+33 (0)1 60 19 42 59	www.matech.fr matech@metech.fr
Spain	Altaix Electronics	C/ Cólquide 6 28231, Las Rozas, Madrid	+34 91 636 3939	+34 91 636 3909	www.altaix.com info@altaix.com
Mexico	SEYSA Electrónica de México S.A de C.V	Tenerife No. 9, colonia Galaxia Cauatlancingo, Puebla. C.P. 72713	01222-5829594		ventas@seysaem.com.mx www.seysaem.com.mx
Canada	Giga-Tron Associates Limited	2775 Moodie Drive, Suite 1-A Ottawa, Ontario K2J 4S6 Canada	613-747-4114	613-747-3474	www.gigatron.com sales@gigatron.com
P.R of China	Beijing Aumiwalker Technology	Nuclear Science City Road, Fengtai District, Beijing 1st Floor, Building 6, 01 100070, P.R. of China	010-63718360		www.aumiwalker.com sales@aumiwalker.com
Japan	IMC., Ltd. / Impulse Technologies, Inc.	1989 Union Blvd. Bay Shore, NY 11706	631-968-4116	81 3 6908 9369	www.im-c.co.jp mleone@impulse-tech.com
Singapore, Malaysia, Thailand, Indonesia, Vietnam.	Precision Technologies Pte. Ltd.	BLK 211 Henderson Road #13-02, Henderson Industrial Park, Singapore 159552,	65 6273-4573	65 6273-8898	www.pretech.com.sg precision@pretech.com.sg
Turkey	Ankatek Teknoloji Ltd. Sti.	1314. Cad. 1328. Sok. No: 8/8 06450 Ovecler Ankara Turkey	+90 312 472 2378	+90 312 472 2388	www.ankatekteknoloji.com sales@ankatekteknoloji.com



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RECTANGULAR FLEXIBLE WAVEGUIDE SPECIFICATIONS

TYPICAL ELECTRICAL SPECIFICATIONS							
EIA WR SIZE	FREQUENCY RANGE (GHz)	MCKS Flexible Non-Twistable		MTPS Flexible Twistable		MSBS Seamless (Brass)	
		*VSWR	**INSERTION LOSS	*VSWR	**INSERTION LOSS	*VSWR	**INSERTION LOSS
22	33.00 - 50.00	1.35	1.00	1.35	1.20	SEE "MILLIMETER FLEX" DATA SHEET	
28	26.50 - 40.00	1.30	0.50	1.30	0.60		
34	22.00 - 33.00	1.20	0.35	1.30	0.50	1.30	0.35
42	18.00 - 26.50	1.20	0.32	1.20	0.35	1.20	0.30
51	15.00 - 22.00	1.20	0.32	1.20	0.35	1.20	0.30
62	12.40 - 18.00	1.12	0.15	1.12	0.20	1.12	0.15
75	10.00 - 15.00	1.12	0.13	1.12	0.15	1.10	0.12
90	8.20 - 12.40	1.10	0.09	1.10	0.10	1.10	0.09
102	7.00 - 11.00	1.10	0.08	1.10	0.09	1.10	0.06
112	7.05 - 10.00	1.09	0.06	1.10	0.08	1.10	0.06
137	5.85 - 8.20	1.09	0.05	1.09	0.07	1.10	0.05
159	4.90 - 7.05	1.08	0.04	1.09	0.06	1.10	0.04
187	3.95 - 5.85	1.08	0.03	1.09	0.05	1.09	0.03
229	3.30 - 4.90	1.07	0.02	1.07	0.02	1.08	0.02
284	2.60 - 3.95	1.07	0.02	1.07	0.02	1.08	0.02
340	2.20 - 3.30	1.07	0.01	1.07	0.01	N/A	N/A
430	1.70 - 2.60	1.07	0.01	1.07	0.01	N/A	N/A
650	1.12 - 1.70	1.06	0.01	NA	NA	N/A	N/A
* VSWR is per 2 Foot Section ** INSERTION LOSS is in dB per Foot with Silver Plated waveguide							
TYPICAL MECHANICAL SPECIFICATIONS					POWER HANDLING CAPABILITY		
EIA WR SIZE	Bend Radii to Centerline				CW Power In Watts		PEAK Power In Kilowatts
	With Jacket		Without Jacket		MCK/MSB	MTP	
	E - Plane	H - Plane	E - Plane	H - Plane			
22	0.75	1.13	0.44	0.94	75	25	12
28	0.75	1.13	0.44	0.94	150	75	20
34	0.75	1.13	0.44	0.94	200	100	30
42	0.88	1.25	0.57	1.00	300	100	39
51	0.88	1.25	0.57	1.00	500	200	70
62	1.00	1.88	0.69	1.25	1,000	400	100
75	1.13	2.25	0.63	1.25	1,500	750	140
90	1.75	2.50	1.25	1.50	3,000	1,000	180
102	2.00	2.88	1.30	1.94	4,000	1,500	300
112	2.25	3.25	1.40	1.82	4,000	1,500	315
137	2.38	3.38	1.50	2.07	5,000	2,000	500
159	4.00	6.00	1.60	2.25	6,000	2,500	1,100
187	4.38	6.50	1.94	3.00	6,500	3,000	1,250
229	6.50	8.00	2.13	3.25	8,000	4,000	1,550
284	7.00	9.50	2.94	5.50	10,000	4,000	2,000
340	10.00	16.00	4.25	6.00	16,000	8,000	3,700
430	12.00	25.00	4.82	6.63	20,000	10,000	4,700
650	20.00	40.00	14.00	28.00	20,000	NA	10,700

Mechanical Specifications are for Non-Twistable Flexible Waveguide.
 Tighter Radii can be accommodated with Seamless Flexible Waveguide.
 See other Data Sheets for Double-Ridged and Millimeter Flexible Waveguide.



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EXTRA FLEXIBLE WAVEGUIDE SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS

EIA WR SIZE	FREQUENCY RANGE GHz	VSWR	INSERTION		Average Power Watts		PEAK POWER KILOWATTS	MIN. CENTERLINE Bend Radius (inches)	
			MTES	MCES	MTES	MCES		E PLANE	H PLANE
22	33.0 - 50.0	1.35	1.20	1.00	25	75	12	0.5	0.8
28	26.5 - 40.0	1.3	0.60	0.50	75	150	20	0.5	0.8
34	22.0 - 33.0	1.3	0.60	0.50	100	200	30	0.6	0.9
42	18.0 - 26.5	1.2	0.35	0.32	100	300	39	0.6	0.9
51	15.0 - 22.0	1.2	0.35	0.32	200	500	70	0.7	1.3
62	12.4 - 18.0	1.12	0.20	0.15	400	1000	100	0.7	1.3
75	10.0 - 15.0	1.12	0.15	0.13	750	1500	140	0.8	1.6

VSWR is Per 2 Foot Section

*INSERTION LOSS is dB per foot with silver plated waveguide

- .. Extra-Flexible may be used where a more flexible application would prove beneficial.
- .. MTES = Extra-Flexible / Twistable
- .. MCES = Extra-Flexible / Non-Twistable
- .. Electrical: V.S.W.R. specifications shown are full band (frequency range).
Lower values are attainable over narrower bandwidths.
- .. Finish: Flexible waveguide is silver-plated per QQ-S-365.
- .. Jacket: Flexible waveguide assemblies include a protective molded Neoprene rubber coating to the exterior of the waveguide. An optional polysulfide brush-on jacket may be supplied on all sizes.

ORDERING INFORMATION

EXAMPLE: Part No. MTES42-500-N-12B

"MTES42" is WR42 Extra-Flexible/Twistable brass waveguide Silver Plated

"500" indicates cover flange at both ends.

"N" indicates a molded Neoprene protective jacket.

"12" indicates 12 inches long.

"B" indicates flange material to be brass.

.. See Ordering Information page for details.

For additional frequencies, sizes, and types see "Rectangular Flexible Waveguide Specifications" Data Sheet.



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MILLIMETER SEAMLESS FLEXIBLE WAVEGUIDE SPECIFICATIONS

TYPICAL ELECTRICAL SPECIFICATIONS						
EIA WR SIZE	DEF 5351 SIZE WG	FREQUENCY RANGE (GHz)	MSNS Seamless Electro-formed		Average Power	Peak Power
			VSWR	**INSERTION LOSS	Watts	Kilowatts
10	27	75.00 - 110.00	1.15	0.25	30	2.5
12	26	60.00 - 90.00	1.12	0.20	40	3.8
15	25	50.00 - 75.00	1.1	0.11	50	5.7
19	24	40.00 - 60.00	1.1	0.08	60	10
22	23	33.00 - 50.00	1.1	0.05	75	12
28	22	26.50 - 40.00	1.1	0.04	150	20

** INSERTION LOSS is dB per Inch with silver plated waveguide.

TYPICAL MECHANICAL SPECIFICATIONS					
EIA WR SIZE	DEF 5351 SIZE WG	Min. Centerline Bend Radius (degrees/inch)		Maximum Pressure	Compression/ Elongation
		E Plane	H Plane	PSIG	PER INCH
10	27	100	50	20	0.05
12	26	100	50	20	0.05
15	25	90	45	15	0.05
19	24	75	35	12	0.02
22	23	50	30	10	0.02
28	22	40	25	10	0.02

Electrical: Specifications shown are full band (frequency range). Lower values are attainable over narrower bandwidths.

Jackets: Brush applied polysulfide rubber jackets per MIL-S-8802 are standard.

Silicone rubber jackets per MIL-S-23586 available on special request.

Flanges: Flanges are attached to the flexible waveguide in conformance with MIL-STD-1866 using solder per QQ-S-571.

Finish: Interior of flexible waveguide is silver-plated per QQ-S-365

EXAMPLE: Part No. MSNS10-500(V)-2.25B is electro-formed Nickel over silver, cover flanges, polysulfide jacketed, and 2.25 inches long with brass flanges plated Silver

For additional frequencies, sizes, and types see "Rectangular Flexible Waveguide Specifications" Data Sheet.



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Types of Flexible Waveguide

MTPS Flexible/Twistable



Advantages

- Flexible & Twistable
- Full Band
- Isolates Vibration
- Elongates and Compresses

Disadvantages

- Pressure Seal Requires Jacket
- Relatively Fragile
- Higher Insertion Loss

MCKS Flexible/Non-Twistable



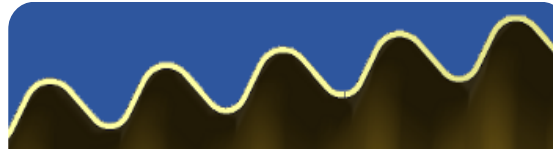
Advantages

- Cost
- Ruggedized Construction
- Full Band
- Less Insertion Loss than MTP

Disadvantages

- Pressure Seal Requires Jacket
- Not Twistable
- Higher Insertion Loss

MSD/MSB Flexible/Non-Twistable



Advantages

- Seamless (Corrugated)
- No Pressure Leakage
- Ideal for High Power Applications
- Tighter Achievable Radii

Disadvantages

- Not Twistable
- Single Sections Limited to 28"
- Cost



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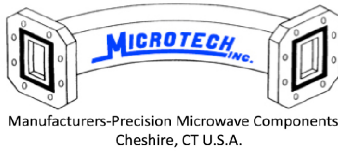
RECTANGULAR RIGID WAVEGUIDE SPECIFICATIONS

TYPICAL ELECTRICAL SPECIFICATIONS							
EIA WR SIZE	FREQUENCY RANGE GHz	MRH ALUMINUM		MRC OFHC COPPER		MRF COMMERCIAL BRONZE	
		*VSWR	**INSERTION LOSS	*VSWR	**INSERTION LOSS	*VSWR	**ATTEN.
22	33.00-50.00	1.05	0.485	1.05	0.31	N/A	
28	26.50-40.00	1.05	0.344	1.05	0.219		
34	22.00-33.00	1.05	0.255	1.04	0.17		
42	18.00-26.50	1.04	0.207	1.04	0.132		
51	15.00- 22.00	1.04	0.135	1.05	0.09		
62	12.40-18.00	1.04	0.097	1.04	0.062	1.04	0.085
75	10.00-15.00	1.03	0.077	1.03	0.049	1.03	0.062
90	8.20-12.40	1.03	0.065	1.03	0.041	1.03	0.056
102	7.00-11.00	1.03	0.054	1.03	0.034	1.03	0.048
112	7.05-10.00	1.03	0.042	1.03	0.027	1.03	0.037
137	5.85-8.20	1.02	0.03	1.02	0.019	1.02	0.029
159	4.90-7.05	1.02	0.023	1.02	0.015	1.02	0.02
187	3.95-5.85	1.02	0.021	1.02	0.013	1.02	0.019
229	3.30-4.90	1.02	0.014	1.02	0.009	1.02	0.012
284	2.60-3.95	1.02	0.011	1.02	0.007	1.02	0.009
340	2.20-3.30	1.02	0.009	1.02	0.006	N/A	N/A
430	1.70-2.60	1.02	0.006	1.02	0.004	N/A	N/A
650	1.12-1.70	1.02	0.003	1.02	0.002	N/A	N/A

* VSWR is per 2 Foot Section

** Insertion Loss is in dB per Foot

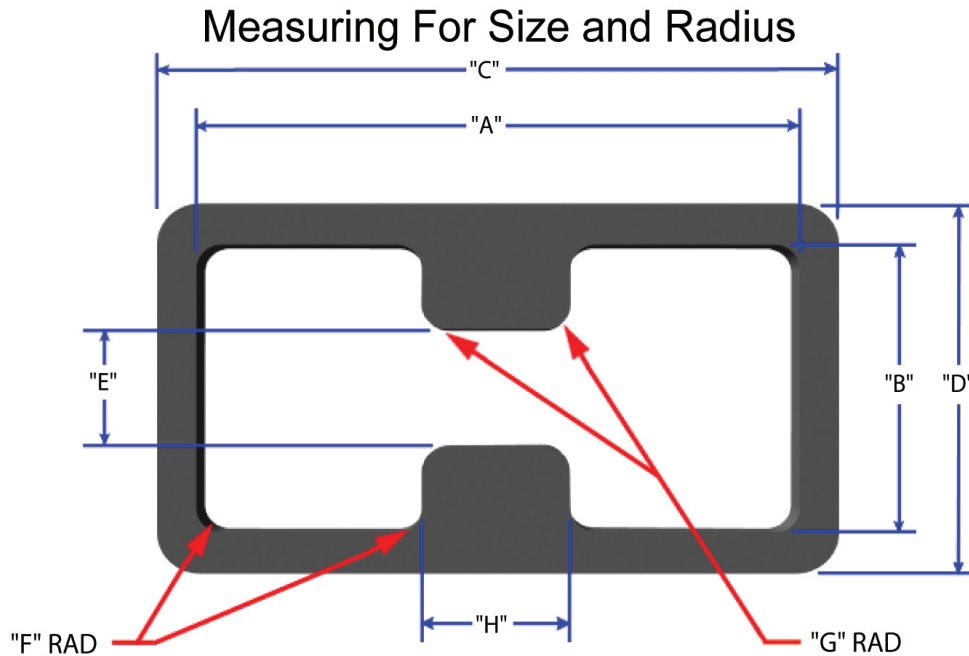
See Double-Ridge, Rigid Waveguide and Millimeter Rigid Waveguide



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DOUBLE RIDGED WAVEGUIDE SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS											
WRD SIZE	FREQUENCY RANGE (GHz)	VSWR MAX	INSERTION LOSS/FT	A	B	C	D	E	F	G	H
180	18.0 – 40.0	1.1	.48 dB	0.288	0.134	0.368	0.214	0.057	0.015	0.011	0.072
750	7.5 – 18.0	1.05	.15 dB	0.691	0.321	0.791	0.421	0.136	0.02	0.027	0.173
650	6.5 – 18.0	1.05	.15 dB	0.72	0.321	0.82	0.421	0.101	0.02	0.022	0.173
580	5.8 – 16.0	1.05	.15 dB	0.78	0.37	0.88	0.47	0.12	0.015	0.043	0.200
475	4.75 – 11.0	1.05	.074 dB	1.09	0.506	1.19	0.606	0.215	0.03	0.043	0.272
350	3.5 – 8.2	1.05	.046 dB	1.48	0.688	1.608	0.816	0.292	0.03	0.058	0.370
200	2.0 – 4.8	1.05	.02 dB	2.59	1.205	2.75	1.365	0.512	0.05	0.102	0.648





Manufacturers-Precision Microwave Components
Cheshire, CT U.S.A.

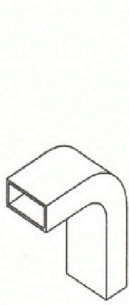
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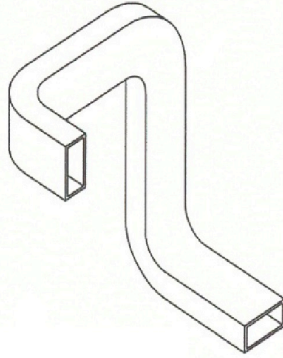
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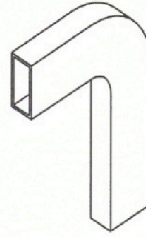
RIGID BENDS AND TWISTS



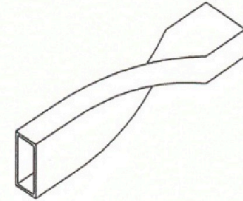
E-PLANE BEND



E-PLANE & H-PLANE BEND

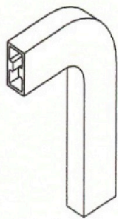


H-PLANE BEND

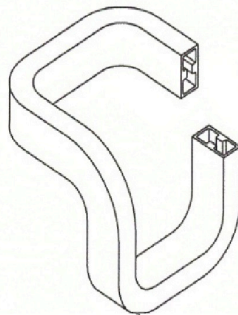


90° TWIST

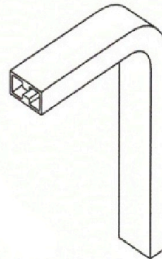
DOUBLE RIDGED BENDS AND TWISTS



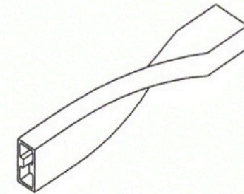
WRD H-PLANE



WRD H-PLANE & E-PLANE



WRD E-PLANE



WRD 90° TWIST

Microtech manufactures a wide variety of bends in Rectangular as well as Double Ridged. Our Bending Department has over 50 years of bending waveguide, and is capable of bending practically any waveguide shape. If you have a special requirement, please contact Microtech and speak to one of our qualified Engineers. They will be happy to assist you.



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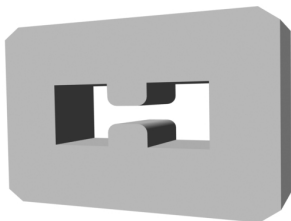
WAVEGUIDE FLANGE EXTRUSIONS SPECIFICATIONS

RECTANGULAR FLANGE EXTRUSION

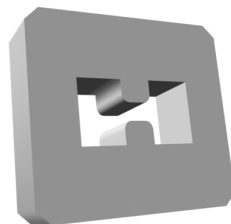
WAVEGUIDE SIZE	INTERNAL DIM	TOLERANCE	OUTSIDE DIM	TOLERANCE	FREQUENCY GHz	ALLOY	LENGTH
WR 28	.280 x .140	+/- .002	.750 x .750	+/- .015	26.50 - 40.00	6063-T6	1 meter
WR 42	.420 x .170	+/- .002	.875 x .875	+/- .015	18.00 - 26.50	6063-T6	1 meter
WR 51	.510 x .255	+/- .002	1.312 x 1.312	+/- .015	15.00 - 22.00	6063-T6	1 meter
WR 62	.622 x .311	+/- .002	1.312 x 1.312	+/- .015	12.4 - 18.00	6063-T6	1 meter
WR 75	.750 x .375	+/- .002	1.500 x 1.500	+/- .015	10.00 - 15.00	6063-T6	1 meter
WR 90	.900 x .400	+/- .002	1.625 x 1.625	+/- .015	8.20 - 12.40	6063-T6	1 meter
WR 112	1.122 x .497	+/- .002	1.875 x 1.675	+/- .015	7.05 - 10.00	6063-T6	1 meter

DOUBLE RIDGED FLANGE EXTRUSION

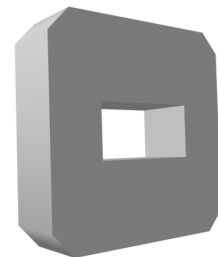
WAVEGUIDE SIZE	INTERNAL DIM	TOLERANCE	OUTSIDE DIM	TOLERANCE	FREQUENCY GHz	ALLOY	LENGTH
WRD 180	.288 x .134	+/- .002	.875 x .875	+/- .015	18.00 - 40.00	6063-T6	1 meter
WRD 650	.720 x .321	+/- .002	1.375 x 1.375	+/- .015	.650 - 18.00	6063-T6	1 meter
WRD 750	.691 x .321	+/- .002	1.375 x 1.375	+/- .015	7.50 - 18.00	6063-T6	1 meter
WRD 580	.780 x .370	+/- .002	1.375 x 1.375	+/- .015	5.80 - 16.00	6063-T6	1 meter
WRD 475	1.090 x .506	+/- .002	1.969 x 1.391	+/- .015	4.75 - 11.00	6063-T6	1 meter



DOUBLE RIDGED RECTANGULAR



DOUBLE RIDGED SQUARE



RECTANGULAR W/G

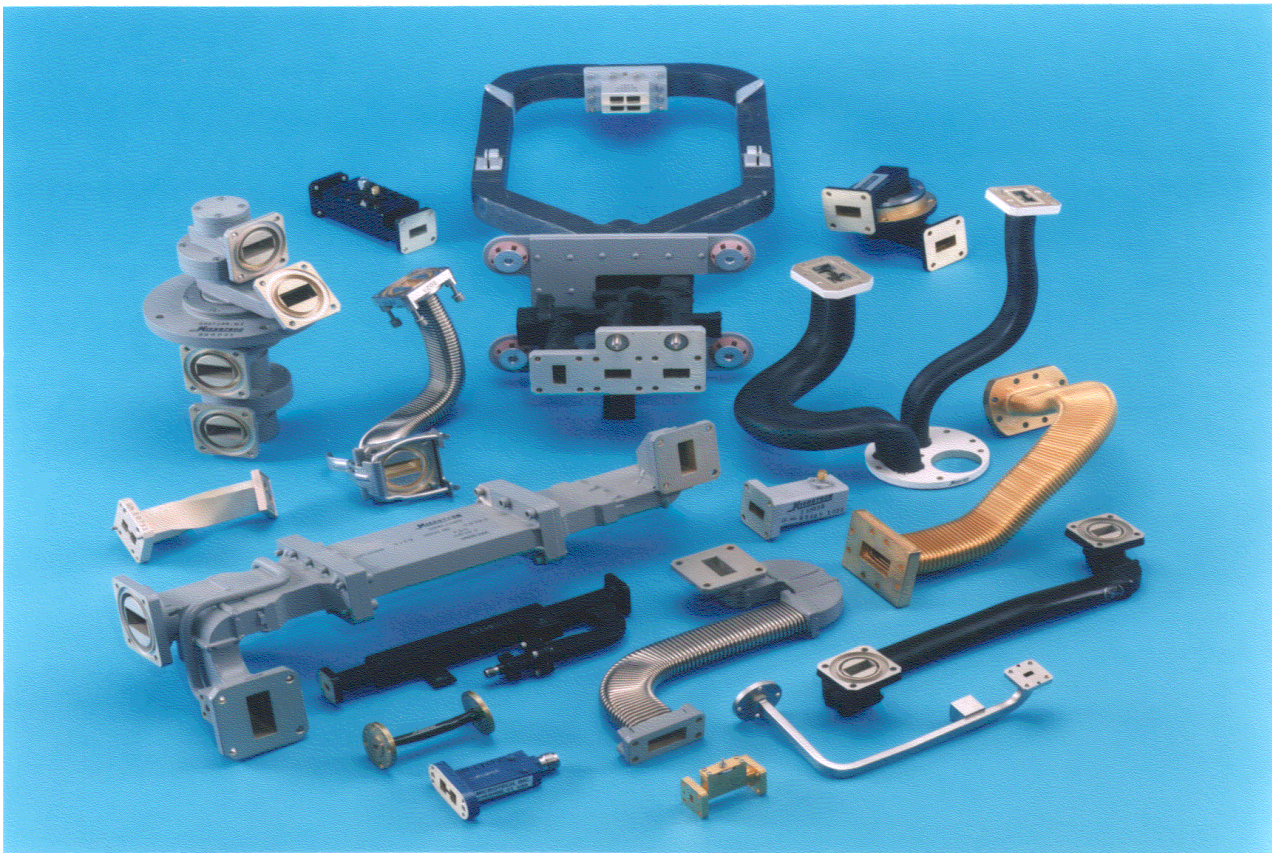


Manufacturers-Precision Microwave Components
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SPECIALS

Microtech manufactures a wide variety of Specialty items that are not listed in our catalog or Data sheets. This photo is just a relative sample of items Microtech is capable of manufacturing.





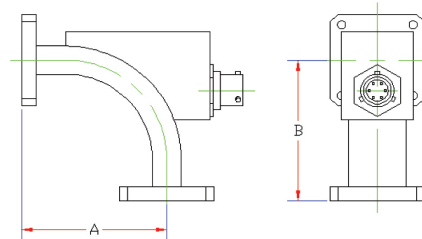
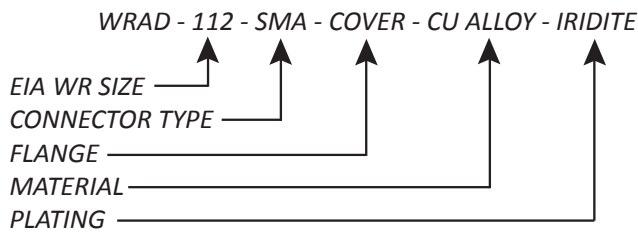
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WAVEGUIDE ARC DETECTORS SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS								
EIA WR SIZE	FREQUENCY RANGE (GHZ)	VSWR MAX.	INSERTION LOSS (DB)	PEAK POWER HANDLING MIN	FLANGE EQUIV.	MATERIAL	"A" DIMENSION (MAX. INCHES)	"B" DIMENSION (MAX. INCHES)
22	33.00 - 50.00	1.15	<0.15	40KW	UG383/U	CU ALLOY	2.00	2.00
28	26.50 - 40.00	1.15	<0.15	75KW	UG599/U	CU ALLOY	2.00	2.00
34	22.00 - 33.00	1.15	<0.15	100KW	UG1530/U	CU ALLOY	2.00	2.00
42	18.00 - 26.50	1.15	<0.15	150KW	UG596/U	CU ALLOY	2.00	2.00
51	15.00 - 22.00	1.15	<0.15	200KW	WR 51	CU ALLOY	2.00	2.00
62	12.40 - 18.00	1.15	<1.10	250KW	UG419/U	CU ALLOY	2.00	2.00
75	10.00 - 15.00	1.1	<1.10	325KW	WR 75	CU ALLOY	2.00	2.00
90	8.20 - 12.40	1.1	<1.10	350KW	UG39/U	CU ALLOY	2.00	2.00
102	7.00 - 11.00	1.1	<1.10	400KW	UG1493/U	CU ALLOY	2.00	2.00
112	7.05 - 10.00	1.1	<1.10	400KW	UG51/U	CU ALLOY	2.00	2.00
137	5.85 - 8.20	1.1	<1.10	500KW	UG344/U	CU ALLOY	2.00	2.00
159	4.90 - 7.05	1.1	<1.10	500KW	CPR159F	CU ALLOY	2.50	2.50
187	3.95 - 5.85	1.1	<1.10	700KW	UG1498A/U	AL ALLOY	3.00	3.00
229	3.30 - 4.90	1.1	<1.10	800KW	CPR229F	AL ALLOY	3.00	3.00
284	2.60 - 3.95	1.05	<1.05	1.0MW	UG53	AL ALLOY	3.50	3.50
340	2.20 - 3.30	1.05	<1.05	1.2MW	UG1713/U	AL ALLOY	3.50	3.50
430	1.70 - 2.60	1.05	<1.05	1.5MW	UG1711/U	AL ALLOY	4.00	4.00
650	1.12 - 1.70	1.05	<1.05	2.0MW	UG1714/U	AL ALLOY	6.00	6.00

ORDERING INFORMATION



Microtech Arc Detectors will provide a fault or fired output signal effecting a shut-down of the system prior to damage to your very expensive power source. Microtech has pioneered a method utilizing optics allowing arc detection in a straight waveguide unit when your system might not have space for a more traditional bend.

These detectors are available in waveguide sizes ranging from WR650 to WR22.

They are made available with numerous options. They can be ordered with a led check circuit and also a TTL output with or without a latching circuit. Many popular materials and flange configurations are also available. Consult the factory with your specific design needs. Adapters that conform to MIL-DTL-22641 are also available



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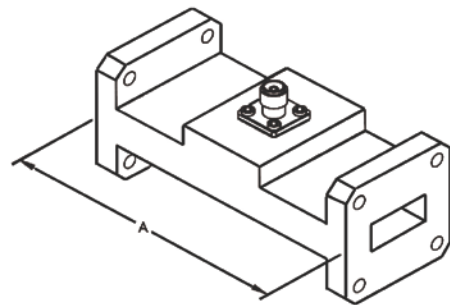
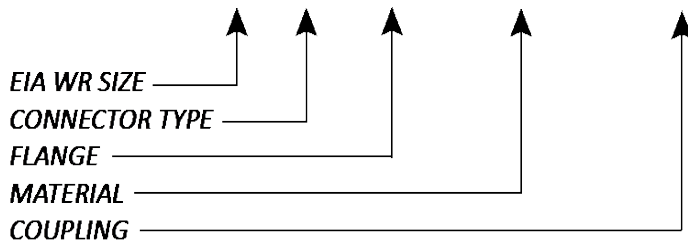
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POWER SAMPLER SPECIFICATIONS

<i>TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS</i>							
EIA WR SIZE	FREQUENCY RANGE (GHz)	PRIMARY ARM VSWR Max.	MATERIAL ***	FLANGE EQUIV. **	PLATING	"A" DIMENSION (Max. inches)	CONNECTOR *
22	33.00 - 50.00	1.1	BR/ALUM	Cover	CHROMATE	3.50	2.9
28	26.50 - 40.00	1.1	BR/ALUM	Cover	CHROMATE	2.50	2.9
34	22.00 - 33.00	1.1	BR/ALUM	Cover	CHROMATE	2.50	2.9
42	18.00 - 26.50	1.1	BR/ALUM	Cover	CHROMATE	2.25	SMA
51	15.00 - 22.00	1.1	BR/ALUM	Cover	CHROMATE	2.50	SMA
62	12.40 - 18.00	1.1	BR/ALUM	Cover	CHROMATE	3.00	SMA
75	10.00 - 15.00	1.1	BR/ALUM	Cover	CHROMATE	3.50	SMA
90	8.20 - 12.40	1.1	BR/ALUM	Cover	CHROMATE	3.75	SMA
112	7.05 - 10.00	1.1	BR/ALUM	Cover	CHROMATE	4.00	SMA
137	5.85 - 8.20	1.1	BR/ALUM	Cover	CHROMATE	4.50	SMA
159	4.90 - 7.05	1.1	BR/ALUM	CPRF	CHROMATE	5.00	N
187	3.95 - 5.85	1.1	BR/ALUM	CPRF	CHROMATE	5.00	N
229	3.30 - 4.90	1.1	BR/ALUM	CPRF	CHROMATE	6.00	N
284	2.60 - 3.95	1.1	BR/ALUM	CPRF	CHROMATE	8.00	N
340	2.20 - 3.30	1.1	BR/ALUM	CPRF	CHROMATE	10.00	N

Ordering Information

WRPS - 112 - SMA - COVER - ALUMINUM - 20, 30, 40, 50



*CONNECTOR TYPES: N-SMA-TNC-2.4mm-2.9mm-3.5mm

**FLANGE TYPE: COVER-CPRG-CPRF-CMR-CHOKE

***MATERIAL: BRASS-ALUMINUM-COPPER

PLATING: CHROMATE-SILVER

Notes:

Standard Sampling Values available are 30, 40, 50, and 60 +/-1dB. Others values available

On Special orders.



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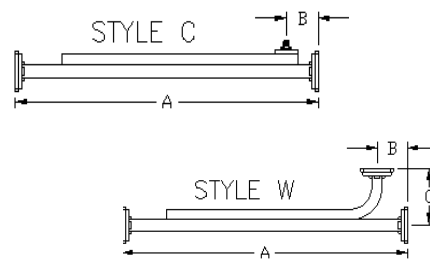
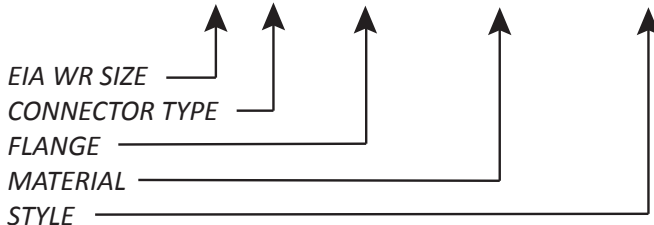
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BROADWALL COUPLER SPECIFICATIONS

TYPICAL ELECTRICAL SPECIFICATIONS					
EIA WR SIZE	FREQUENCY RANGE (GHz)	COUPLING SENSITIVITY +/- (db)	COUPLING AVERAGE +/- (db)	PRIMARY ARM VSWR (Max.)	MINIMUM DIRECTIVITY (dB)
22	33.00 - 50.00	0.85	0.80	1.05	35
28	26.50 - 40.00	0.75	0.70	1.05	40
34	22.00 - 33.00	0.70	0.70	1.05	40
42	18.00 - 26.50	0.65	0.60	1.05	40
51	15.00 - 22.00	0.60	0.60	1.05	40
62	12.40 - 18.00	0.50	0.50	1.05	40
75	10.00 - 15.00	0.50	0.50	1.05	40
90	8.20 - 12.40	0.50	0.50	1.05	40
112	7.05 - 10.00	0.50	0.50	1.05	40
137	5.85 - 8.20	0.50	0.50	1.05	40
159	4.90 - 7.05	0.50	0.50	1.05	40
187	3.95 - 5.85	0.50	0.50	1.05	40
229	3.30 - 4.90	0.50	0.50	1.05	40
284	2.60 - 3.95	0.50	0.50	1.05	40
TYPICAL MECHANICAL SPECIFICATIONS					
EIA WR SIZE	"A" Dim. Inches	"B" Dim. Inches	"C" Dim. Inches	FLANGE TYPE	COAX STYLE JACK
22	8	0.50	1.25	COVER	2.4
28	9	1.06	1.25	COVER	2.9
34	10	1.13	1.50	COVER	2.9
42	11	1.25	1.75	COVER	SMA
51	13	1.25	2.25	COVER	SMA
62	14	1.00	2.00	COVER	SMA
75	17	1.25	2.25	COVER	SMA
90	19	1.50	2.50	COVER	SMA
112	22	1.75	3.00	COVER	N
137	26	1.75	3.00	CPRG	N
159	32	2.00	3.25	CMR	N
187	34	2.50	3.75	COVER	N
229	40	2.75	5.00	CPRF	N
284	47	3.25	6.00	COVER	N

Ordering Information

WRBC - 90 - SMA - COVER - ALUMINUM - "W" or "C"



Sidewall Couplers are also available upon request.

Note: Standard coupling values are 3dB, 6dB, 10dB, 20dB, 30dB, and 40 dB. Other values and configurations available upon request. Contact the factory with your requirements.



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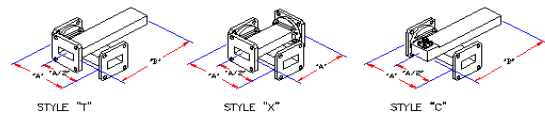
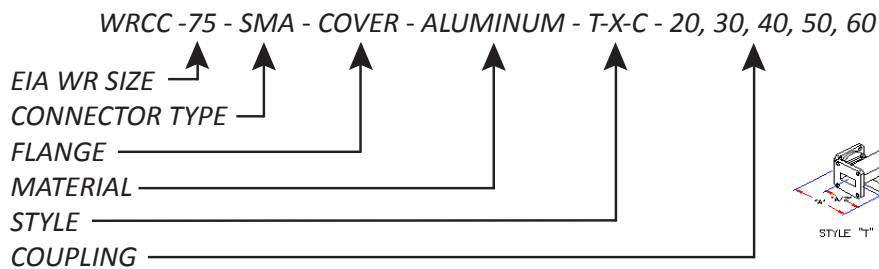
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CROSSGUIDE COUPLER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS							
EIA WR SIZE	FREQUENCY RANGE (GHz)	PRIMARY ARM VSWR Max.	COUPLING VARIATION +/- (dB)	FLANGE EQUIV.	"A" DIMENSION (Max. Inches)	"B" DIMENSION (Max. Inches)	CONNECTOR "C" JACK
22	33.00 - 50.00	1.10	3.0	Cover	2.25	0.70	2.9
28	26.50 - 40.00	1.10	2.0	Cover	2.25	0.70	2.9
34	22.00 - 33.00	1.10	2.0	Cover	2.25	0.80	SMA
42	18.00 - 26.50	1.10	2.0	Cover	2.25	0.80	SMA
51	15.00 - 22.00	1.10	1.5	Cover	2.50	0.90	SMA
62	12.40 - 18.00	1.10	1.5	Cover	2.50	0.90	SMA
75	10.00 - 15.00	1.10	1.5	Cover	3.00	1.00	SMA
90	8.20 - 12.40	1.10	1.5	Cover	3.00	1.30	SMA
102	7.00 - 11.00	1.10	1.5	Cover	3.00	2.25	SMA
112	7.05 - 10.00	1.10	1.2	Cover	4.00	2.25	SMA
137	5.85 - 8.20	1.10	1.0	Cover	4.00	2.40	N
159	4.90 - 7.05	1.10	1.0	CPRF	5.00	2.50	N
187	3.95 - 5.85	1.10	1.0	CPRF	5.00	1.55	N
229	3.30 - 4.90	1.10	1.0	CPRF	6.00	3.50	N
284	2.60 - 3.95	1.10	1.0	CPRF	8.00	4.25	N
340	2.20 - 3.30	1.10	1.0	CPRF	10.00	4.50	N

Ordering Information



1. Standard couplings available are 20, 30, 40, 50, and 60. Others values available on special order. Specify by adding coupling and style desired as a suffix to the part number. Example 233317X-20.
2. Coaxial secondary outputs are also available. Contact the factory or our local Manufacturer's
3. Representative for details.
4. Nominal directivity is 20 dB.
5. Couplers that conform to MIL-C-15370 are also available.



Manufacturers-Precision Microwave Components
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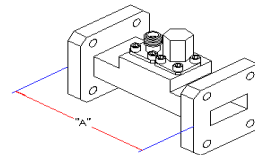
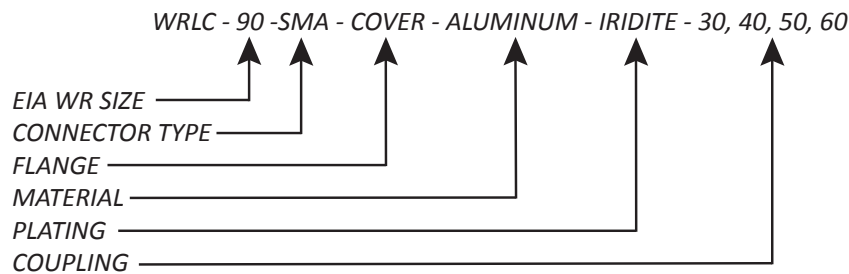
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LOOP COUPLER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WR SIZE	FREQUENCY RANGE (GHz)	PRIMARY ARM VSWR Max.	COUPLING VARIATION +/- (dB)	FLANGE EQUIV.	"A" DIMENSION (Max. Inches)	CONNECTOR
22	33.00 - 50.00	1.10	3.0	Cover	3.50	2.9
28	26.50 - 40.00	1.10	2.0	Cover	2.50	2.9
34	22.00 - 33.00	1.10	2.0	Cover	2.50	2.9
42	18.00 - 26.50	1.10	2.0	Cover	2.25	SMA
51	15.00 - 22.00	1.10	1.5	Cover	2.50	SMA
62	12.40 - 18.00	1.10	1.5	Cover	2.50	SMA
75	10.00 - 15.00	1.10	1.5	Cover	3.00	SMA
90	8.20 - 12.40	1.10	1.5	Cover	3.00	SMA
112	7.05 - 10.00	1.10	1.5	Cover	4.00	SMA
137	5.85 - 8.20	1.10	1.0	Cover	5.00	N
159	4.90 - 7.05	1.10	1.0	CPRF	5.00	N
187	3.95 - 5.85	1.10	1.0	CPRF	5.00	N
229	3.30 - 4.90	1.10	1.0	CPRF	6.00	N
284	2.60 - 3.95	1.10	1.0	CPRF	8.00	N
340	2.20 - 3.30	1.10	1.0	CPRF	10.00	N

Ordering Information



- Standard couplings available are 30, 40, 50, and 60 +/-1dB. Others values available on special order.
Specify by adding coupling and style desired as a suffix to the part number. Example 233317X-30.
- Normal directivity is 15dB min



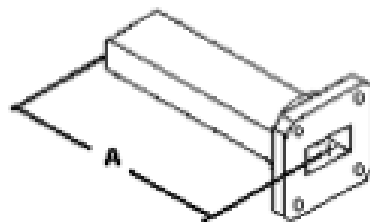
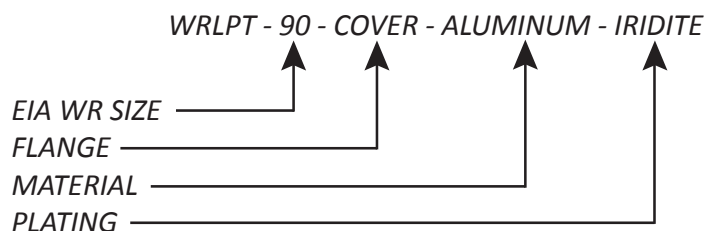
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LOW POWER TERMINATION SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR Max.	FLANGE	MATERIAL	AVG. POWER HANDLING	"A" DIMENSION (Max. Inches)
22	33.00 - 50.00	1.05	Cover	Brass	0.25	2.25
28	26.50 - 40.00	1.04	Cover	Brass	0.5	2.25
34	22.00 - 33.00	1.04	Cover	Brass	0.5	3.0
42	18.00 - 26.50	1.02	Cover	Brass	0.5	3.0
51	15.00 - 22.00	1.02	Cover	Brass	1.0	4.0
62	12.40 - 18.00	1.02	Cover	Brass	1.5	4.0
75	10.00 - 15.00	1.02	Cover	Brass	2.5	4.5
90	8.20 - 12.40	1.02	Cover	Brass	4.0	6.0
112	7.05 - 10.00	1.02	Cover	Brass	5.0	6.5
137	5.85 - 8.20	1.02	Cover	Brass	6.0	6.8
159	4.90 - 7.05	1.02	CPRG	Brass	7.0	7.0
187	3.95 - 5.85	1.02	Cover	Brass	8.0	7.3
229	3.30 - 4.90	1.02	CPRF	Brass	10.0	7.8
284	2.60 - 3.95	1.02	Cover	Alum	10.0	11.0
340	2.20 - 3.30	1.02	CPRF	Alum	12.0	12.0
430	1.70 - 2.60	1.03	CPRG	Alum	13.0	13.0
650	1.12 - 1.70	1.03	CPRF	Alum	13.0	13.5

Ordering Information



Note: Other configurations, specifications, and power ratings available upon request as well as a large variety of high-power loads available to MIL-D-3954. Contact the factory with your requirements. Microtech, Inc. low power fixed terminations are designed where a matched load is desired to terminate a waveguide transmission line in a dissipative, nonreflecting component. Also used as a standard matched load for the termination of waveguide components.



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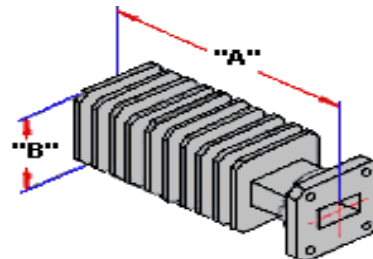
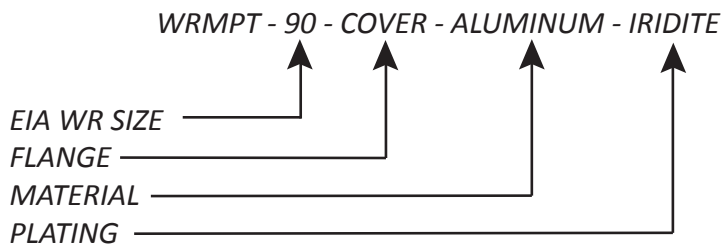
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MEDIUM POWER TERMINATION SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR Max.	FLANGE	AVG. POWER HANDLING (Max Watts)	"A" DIMENSION (Max. Inches)	"B" DIMENSION (Max. inches)
22	33.00 - 50.00	1.10	Cover	40	4.00	1.50
28	26.50 - 40.00	1.10	Cover	60	5.00	1.50
34	22.00 - 33.00	1.10	Cover	100	5.00	2.25
42	18.00 - 26.50	1.10	Cover	120	5.00	2.25
51	15.00 - 22.00	1.10	Cover	150	5.00	2.25
62	12.40 - 18.00	1.07	Cover	200	5.00	3.00
75	10.00 - 15.00	1.07	Cover	200	6.00	3.00
90	8.20 - 12.40	1.10	Cover	250	8.00	3.25
112	7.05 - 10.00	1.07	Cover	375	9.00	3.25
137	5.85 - 8.20	1.05	Cover	700	10.00	4.25
159	4.90 - 7.05	1.06	CPRG	750	11.00	4.25
187	3.95 - 5.85	1.07	Cover	1100	11.00	4.25
229	3.30 - 4.90	1.10	CPRF	1000	13.00	5.00
284	2.60 - 3.95	1.10	Cover	1200	14.00	5.00
340	2.20 - 3.30	1.10	CPRF	1500	17.00	6.00
430	1.70 - 2.60	1.10	CPRG	1800	20.00	7.50
650	1.12 - 1.70	1.10	CPRF	2000	26.00	9.00

Ordering Information



Microtech, Inc. medium power fixed terminations are designed where a matched load is desired to terminate a waveguide transmission line in a dissipative, nonreflecting component. These units require no additional cooling at the rated power level. The fins can be mounted vertically on the unit for optimum convection cooling when the unit is mounted vertically.

Note: Other configurations, specifications, and power ratings available upon request as well as a large variety of lower and higher-power loads available to MIL-D-3954. Contact the factory with your requirements.



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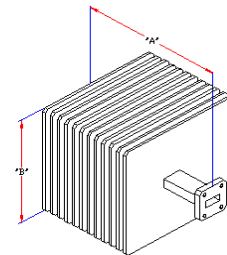
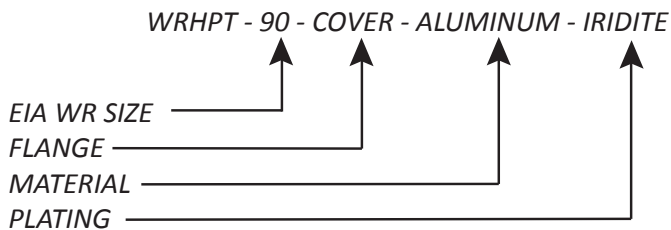
1425 Highland Ave (Rt. 10) P.O. Box 728
Cheshire, CT 06410-1216 U.S.A
Phone #203-272-3234 Fax #203-272-0352
E-Mail: Sales@microtech-inc.com

Visit our website: <http://www.microtech-inc.com>

HIGH POWER TERMINATION SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR Max.	FLANGE	AVG. POWER HANDLING (Max. Watts)	"A" DIMENSION (Max. inches)	"B" DIMENSION (Max. inches)
22	33.00-50.00	1.10	Cover	150	6.00	1.50
28	26.50-40.00	1.10	Cover	200	8.00	1.50
34	22.00-33.00	1.10	Cover	250	8.00	1.50
42	18.00-26.50	1.10	Cover	250	8.00	2.00
51	15.00-22.00	1.10	Cover	300	10.00	2.00
62	12.40-18.00	1.07	Cover	350	10.00	3.00
75	10.00-15.00	1.07	Cover	400	10.00	3.00
90	8.20-12.40	1.10	Cover	400	12.00	4.00
112	7.05-10.00	1.07	Cover	700	14.00	4.00
137	5.85-8.20	1.05	Cover	1000	16.00	6.00
159	4.90-7.05	1.06	CPRF	1500	20.00	6.00
187	3.95-5.85	1.07	Cover	2000	20.00	8.00
229	3.30-4.90	1.10	CPRF	2000	22.00	8.00
284	2.60-3.95	1.10	Cover	3000	24.00	10.00
340	2.20-3.30	1.10	CPRF	4500	30.00	10.00
430	1.70-2.60	1.10	CPRG	5000	32.00	10.00
650	1.12-1.70	1.10	CPRF	10000	36.00	10.00

Ordering Information



Note: Other configurations, specifications, and power ratings available upon request as well as a large variety of lower and higher-power loads available to MIL-D-3954. Contact the factory with your requirements.

Microtech, Inc. High power fixed terminations are designed where a matched load is desired to terminate a waveguide transmission line in a dissipative, nonreflecting component.

These units require no additional cooling at the rated power level. The fins can be mounted vertically on the unit for optimum convection cooling when the unit is mounted vertically.



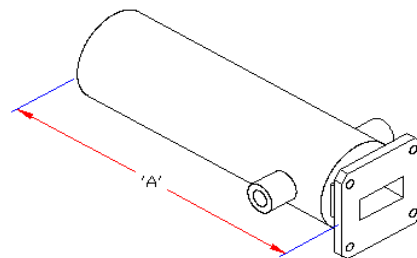
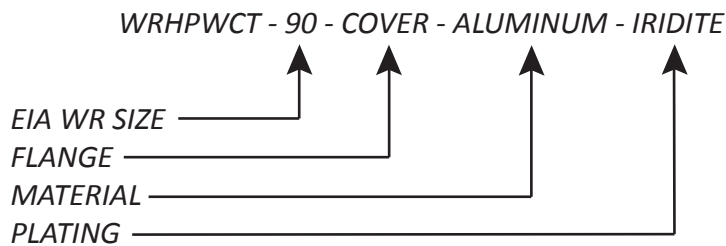
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HIGH POWER WATER COOLED TERMINATION SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR Max.	AVERAGE POWER HANDLING (Max. Watts)	MATERIAL	FLANGE EQUIV.	"A" DIMENSION (Max. Inches)
22	33.00-50.00	1.10	250	ALUM/BR	COVER	6.00
28	26.50 - 40.00	1.10	400	ALUM/BR	COVER	6.00
34	22.00 - 33.00	1.10	500	ALUM/BR	COVER	6.00
42	18.00 - 26.50	1.10	750	ALUM/BR	COVER	6.00
51	15.00 - 22.00	1.10	750	ALUM/BR	COVER	6.00
62	12.40 - 18.00	1.10	1000	ALUM/BR	COVER	6.00
75	10.00 - 15.00	1.10	1000	ALUM/BR	COVER	7.00
90	8.20 - 12.40	1.10	1500	ALUM/BR	COVER	7.00
112	7.05 - 10.00	1.10	2000	ALUM/BR	COVER	8.00
137	5.85 - 8.20	1.10	3000	ALUM/BR	COVER	9.00
159	4.90 - 7.05	1.10	3000	ALUM/BR	CPRF	13.00
187	3.95 - 5.85	1.10	4000	ALUM/BR	COVER	13.00
229	3.30 - 4.90	1.10	4000	ALUM/BR	CPRF	18.00
284	2.60 - 3.95	1.10	5000	ALUM/BR	COVER	18.00

ORDERING INFORMATION



A = Aluminum. B = Brass. Coolant input and output location and size, may vary.

Microtech, Inc. High power water-cooled terminations are designed where a matched load is desired to terminate a waveguide transmission line in a dissipative, nonreflecting component. Add suffix to part number for material.

Note: Other configurations, specifications, and power ratings available upon request as well as a large variety of lower and higher-power loads available to MIL-D-3954. Contact the factory with your requirements.



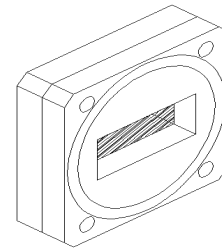
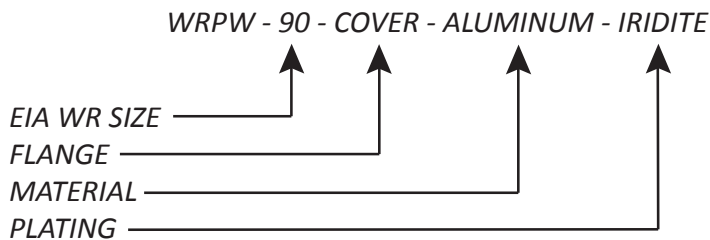
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PRESSURE WINDOW SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS								
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR MAX	INS. LOSS (dB)	PEAK POWER (kW)	PSIG MAX	FLANGE TYPE	FLANGE MATERIAL	OVERALL LENGTH (Max. Inches)
22	50.00	1.2	0.2	12	45	Cover	Brass	0.25
28	40.00	1.18	0.15	15	45	Cover	Brass	0.25
34	33.00	1.15	0.15	20	45	Cover	Brass	0.25
42	26.50	1.05	0.14	30	45	Cover	Brass	0.25
51	22.00	1.1	0.15	20	45	Cover	Brass	0.25
62	18.00	1.15	0.12	100	45	Cover	Brass	0.25
75	15.00	1.1	0.1	125	45	Cover	Brass	0.25
90	12.40	1.1	0.08	150	45	Cover	Brass	0.25
102	11.00	1.1	0.05	250	45	Cover	Brass	0.25
112	10.00	1.1	0.05	250	45	Cover	Brass	0.5
137	8.20	1.07	0.04	400	40	Cover	Brass	0.5
159	7.05	1.05	0.03	750	30	CPRF	Brass	0.5
187	5.85	1.08	0.03	1000	15	Cover	Brass	0.5
229	4.90	1.07	0.03	1800	15	CPRF	Brass	0.5
284	3.95	1.06	0.02	2000	15	CPRF	Aluminum	0.5
430	2.60	1.05	0.02	2500	10	CPRF	Aluminum	0.5
650	1.70	1.05	0.02	4000	5	CPRF	Aluminum	0.75

Ordering Information



Note : All Flanges will have clear holes.

Microtech's Pressure Windows are used where it is desirable to environmentally isolate a section of transmission line or component, to increase power-handling capacity, or to prevent corrosion in high ambient humidity or dusty conditions.

Note: Other configurations and specifications are available upon request. Contact the factory with your requirement.



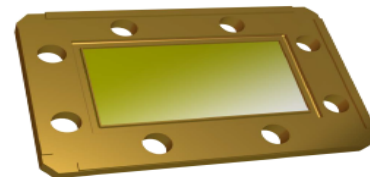
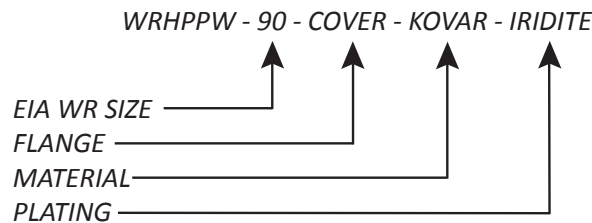
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HIGH POWER PRESSURE WINDOW SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS								
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR MAX	INS. LOSS (dB)	PEAK POWER (kW)	PSIG MAX	FLANGE TYPE	FLANGE MATERIAL	OVERALL LENGTH (Max. Inches)
22	33.00 - 50.00	1.2	0.2	12	45	Cover	Brass	0.25
28	26.50 - 40.00	1.18	0.15	15	45	Cover	Brass	0.25
34	22.00 - 33.00	1.15	0.15	20	45	Cover	Brass	0.25
42	18.00 - 26.50	1.05	0.14	30	45	Cover	Brass	0.25
51	15.00 - 22.00	1.1	0.15	20	45	Cover	Brass	0.25
62	12.40 - 18.00	1.15	0.12	100	45	Cover	Brass	0.25
75	10.00 - 15.00	1.1	0.1	125	45	Cover	Brass	0.25
90	8.20 - 12.40	1.1	0.08	150	45	Cover	Brass	0.25
102	7.00 - 11.00	1.1	0.05	250	45	Cover	Brass	0.25
112	7.05 - 10.00	1.1	0.05	250	45	Cover	Brass	0.5
137	5.85 - 8.20	1.07	0.04	400	40	Cover	Brass	0.5
159	4.90 - 7.05	1.05	0.03	750	30	CPRF	Brass	0.5
187	3.95 - 5.85	1.08	0.03	1000	15	Cover	Brass	0.5
229	3.30 - 4.90	1.07	0.03	1800	15	CPRF	Brass	0.5
284	2.60 - 3.95	1.06	0.02	2000	15	CPRF	Aluminum	0.5
430	1.70 - 2.60	1.05	0.02	2500	10	CPRF	Aluminum	0.5
650	1.12 - 1.70	1.05	0.02	4000	5	CPRF	Aluminum	0.75

Ordering Information



Note : All Flanges will have clear holes.

Microtech High Power Pressure Windows are used where it is desirable to isolate a section of transmission or a component, to increase power handling capacity, or prevent foreign material from entering the transmission line.

Microtech High Pressure Windows are designed and manufactured using the latest software. These windows employ a high grade quartz window set in a Kovar frame. These materials are thermally equivalent for use in high temperature situations. All High Power Windows are hermetically sealed using the latest technology.

Note: The electrical specifications are for 10% of their respective bandwidths. Wider bandwidths are available at a level of degraded performance.

Note : All Flanges will have clear holes.

Note: Other configurations and specifications are available upon request. Contact the factory with your requirement.

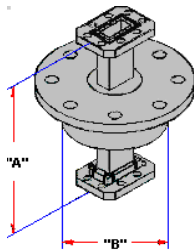


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"I" STYLE ROTARY JOINT SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS							
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR Maximum	INSERTION LOSS Maximum	FLANGE EQUIV.	MATERIAL	"A" DIMENSION	"B" DIMENSION
22	33.00 - 50.00	2.00	1.00	Cover	Brass	6.00	1.75
28	26.50 - 40.00	2.00	1.00	Cover	Brass	3.50	2.00
42	18.00 - 26.50	1.75	0.75	Cover	Brass	3.50	2.00
62	12.40 - 18.00	1.60	0.50	Cover	Brass	3.00	1.81
75	10.00 - 15.00	1.50	0.40	Cover	Brass	3.25	1.81
90	8.20 - 12.40	1.50	0.40	Cover	Brass	3.25	1.81
112	7.05 - 10.00	1.50	0.40	Cover	Brass	4.00	2.25
137	5.85 - 8.20	1.50	0.40	CPRG	Brass	5.00	2.75
159	4.90 - 7.05	1.50	0.40	CPRG	Brass	5.75	3.00
187	3.95 - 5.85	1.50	0.40	CPRF	Brass	6.50	3.00
229	3.30 - 4.90	1.50	0.40	CPRG	Brass	7.50	3.50
284	2.60 - 3.95	1.50	0.40	CPRF	Brass	10.00	4.63
340	2.20 - 3.30	1.50	0.40	CPRF	Brass	12.00	5.00

Notes: Maximum VSWR WOW = .10 typical. Maximum Insertion Loss WOW = .10 dB typical. Improved VSWR values can be obtained over a reduced portion of the band.



Designed for long life under extreme operating conditions, Microtech, Inc. rotary joints feature rugged construction, minimum phase WOW, stable phase linearity and designs that lend themselves to high power applications, all at a reasonable cost. If you need a special configuration or a multi-channel rotary joint just contact the factory or our area representative with your requirements. Our complete in-house engineering and production facility is at your disposal.



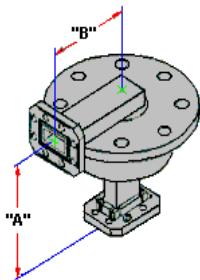
Manufacturers-Precision Microwave Components
Cheshire, CT U.S.A.

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"L" STYLE ROTARY JOINT SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS							
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR Maximum	INSERTION LOSS Maximum	FLANGE EQUIV.	MATERIAL	"A" DIMENSION	"B" DIMENSION
22	33.00 - 50.00	2.00	1.00	Cover	Brass	3.00	2.00
28	26.50 - 40.00	2.00	1.00	Cover	Brass	3.00	2.00
42	18.00 - 26.50	1.75	0.75	Cover	Brass	2.50	2.00
62	12.40 - 18.00	1.60	0.50	Cover	Brass	2.50	1.38
75	10.00 - 15.00	1.50	0.40	Cover	Brass	2.50	1.38
90	8.20 - 12.40	1.50	0.40	Cover	Brass	2.75	1.38
112	7.05 - 10.00	1.50	0.40	Cover	Brass	3.25	2.00
137	5.85 - 8.20	1.50	0.40	CPRG	Brass	4.12	3.00
159	4.90 - 7.05	1.50	0.40	CPRG	Brass	5.00	3.25
187	3.95 - 5.85	1.50	0.40	CPRF	Brass	5.25	3.50
229	3.30 - 4.90	1.50	0.40	CPRG	Brass	6.50	5.00
284	2.60 - 3.95	1.50	0.40	CPRF	Brass	8.50	6.00
340	2.20 - 3.30	1.50	0.40	CPRF	Brass	9.00	6.00

Notes: Maximum VSWR WOW = .10 typical. Maximum Insertion Loss WOW = .10 dB typical. Improved VSWR values can be obtained over a reduced portion of the band.



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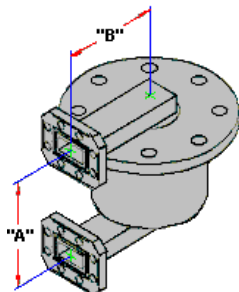
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“U” STYLE ROTARY JOINT SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS							
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR Maximum	INSERTION LOSS Maximum	FLANGE EQUIV.	MATERIAL	"A" DIMENSION	"B" DIMENSION
22	33.00 - 50.00	2.00	1.00	Cover	Brass	1.50	2.00
28	26.50 - 40.00	2.00	1.00	Cover	Brass	1.50	2.00
42	18.00 - 26.50	1.80	0.75	Cover	Brass	2.00	2.00
62	12.40 - 18.00	1.60	0.50	Cover	Brass	2.00	2.00
75	10.00 - 15.00	1.60	0.50	Cover	Brass	1.60	2.13
90	8.20 - 12.40	1.50	0.40	Cover	Brass	2.00	3.00
112	7.05 - 10.00	1.50	0.40	Cover	Brass	2.88	4.00
137	5.85 - 8.20	1.50	0.40	CPRG	Brass	2.88	3.00
159	4.90 - 7.05	1.50	0.40	CPRG	Brass	4.00	4.00
187	3.95 - 5.85	1.50	0.40	CPRF	Brass	4.13	3.50
229	3.30 - 4.90	1.50	0.40	CPRG	Brass	5.00	4.00
284	2.60 - 3.95	1.50	0.40	CPRF	Brass	7.00	4.00
340	2.20 - 3.30	1.50	0.40	CPRF	Brass	7.00	5.00

Notes: Maximum VSWR WOW = .10 typical. Maximum Insertion Loss WOW = .10 dB typical. Improved VSWR values can be obtained over a reduced portion of the band.



Designed for long life under extreme operating conditions, Microtech, Inc. rotary joints feature rugged construction, minimum phase WOW, stable phase linearity and designs that lend themselves to high power applications, all at a reasonable cost. If you need a special configuration or a multi-channel rotary joint just contact the factory or our area representative with your requirements. Our complete in-house engineering and production facility is at your disposal.

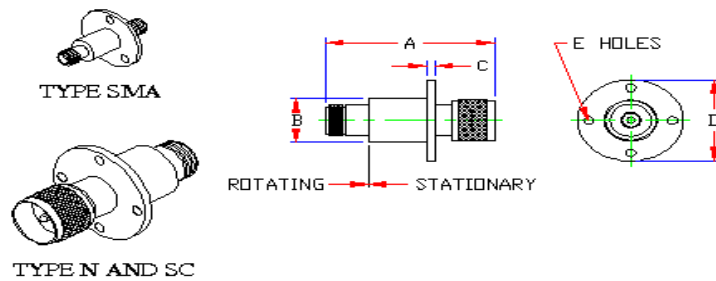


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BROADBAND COAXIAL ROTARY JOINT SPECIFICATIONS

ELECTRICAL REQUIREMENTS						
COAX SIZE	FREQUENCY RANGE (GHz)	VSWR Max.	INSERTION LOSS (dB)	Peak Power	Average Power	
"N"	DC-12.4	1.50	0.50	10 kw	1.5	
"SMA"	DC-18.0	1.60	0.50	3 kw	1	
"SC"	2.0-6.0	1.35	0.30	15 kw	1.25	
MECHANICAL REQUIREMENTS						
COAX SIZE	Weight Ozs.	"A"	"B"	"C"	"D"	"E" Holes
"N"	4.5	2.62	0.88	0.12	1.62	.156Dia. (4x)1.25Dia.B.C.
"SMA"	0.84	1.38	0.50	0.06	1.00	.130 Dia. (3x) .75 Dia. B.C.
"SC"	5.5	2.25	0.75	0.12	1.62	.156 Dia. (4x) 1.25 Dia. B.C.



TYPE N & SC ARE PLUG/JACK
TYPE SMA IS JACK/JACK

Note: Other configurations available on special request. Contact the factory with your requirements.
 These Broadband Coaxial Rotary Joints feature rugged construction to withstand tough environmental conditions while delivering premium performance. If you need a special configuration or size, contact the factory with your requirements.

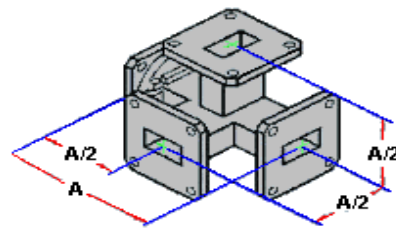
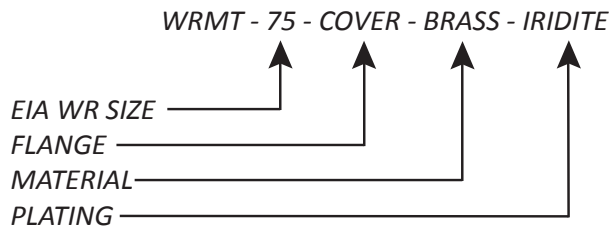


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MAGIC TEE SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS					
EIA WR SIZE	FREQUENCY RANGE (GHz)	MAXIMUM UNBALANCED dB	MATERIAL	FLANGE EQUIV.	"A" DIMENSION (Max. Inches)
28	34.00 - 37.00 *	0.25	BRASS	COVER	2.25
34	24.00 - 26.00 *	0.25	BRASS	COVER	2.25
42	20.00 - 23.00 *	0.25	BRASS	COVER	2.25
51	18.50 - 20.50 *	0.25	BRASS	COVER	2.50
62	14.00 - 15.00 *	0.20	BRASS	COVER	2.50
75	13.50 - 14.50 *	0.15	BRASS	COVER	3.00
90	9.00 - 10.00 *	0.10	BRASS	COVER	3.00
112	7.90 - 8.40 *	0.10	BRASS	COVER	4.00
137	5.90 - 6.40 *	0.10	BRASS	COVER	5.00
159	5.90 - 6.40 *	0.10	BRASS	CPRF	5.00
187	4.40 - 5.00 *	0.10	BRASS	CPRF	5.00
229	3.70 - 4.20 *	0.10	BRASS	CPRF	6.00
284	2.90 - 3.20 *	0.10	BRASS	CPRF	8.00

Ordering Information



GENERAL SPECIFICATIONS

*Electrical Specifications are for 20% .
 of the Specified Frequency Range

Contact factory for any other Frequency Range requests.

- .. VSWR : H-Arm, 1.30; E-Arm 1.50
- .. ISOLATION : H & E Arms, 30 dB
- Co-linear Arms, 16 dB.

Microtech, Inc. offers a full line of standard and special application Magic Tees. Designed to be well used for power division as well as for combining and antenna subsystems, they can meet your impedance bridging, balanced mixer and duplexer needs as well. The copper alloy waveguide construction and exacting specification compliance result in long and economical service life.



Manufacturers-Precision Microwave Components
Cheshire, CT U.S.A.

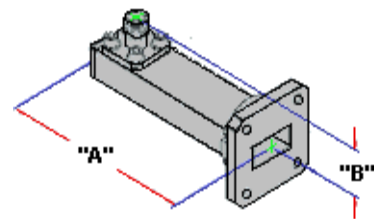
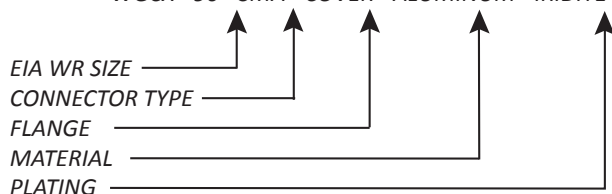
1425 Highland Ave (Rt. 10) P.O. Box 1
Cheshire, CT 06410-1216 U.
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WAVEGUIDE TO COAX ADAPTER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR Max.	INSERTION LOSS (dB)	MATERIAL	"A" DIMENSION (Max. Inches)	"B" DIMENSION (Max. Inches)
22	33.00 - 50.00	1.35	0.40	BR/ALUM	1.5	0.7
28	26.50 - 40.00	1.30	0.35	BR/ALUM	1	0.7
34	22.00 - 33.00	1.30	0.35	BR/ALUM	1.25	0.8
42	18.00 - 26.50	1.25	0.30	BR/ALUM	1.25	0.8
51	15.00 - 22.00	1.25	0.30	BR/ALUM	1.5	0.9
62	12.40 - 18.00	1.25	0.20	BR/ALUM	1.5	0.9
75	10.00 - 15.00	1.25	0.20	BR/ALUM	1.75	1
90	8.20 - 12.40	1.25	0.20	BR/ALUM	1.75	1.3
102	7.00 - 11.00	1.25	0.15	BR/ALUM	2	2.25
112	7.05 - 10.00	1.25	0.15	BR/ALUM	2.25	2.25
137	5.85 - 8.20	1.25	0.10	BR/ALUM	2.5	2.4
159	4.90 - 7.05	1.25	0.10	BR/ALUM	3	2.5
187	3.95 - 5.85	1.25	0.10	BR/ALUM	2.75	1.55
229	3.30 - 4.90	1.25	0.10	BR/ALUM	4	3.5
284	2.60 - 3.95	1.25	0.10	BR/ALUM	4.1	4.25
340	2.20 - 3.30	1.20	0.05	BR/ALUM	4.1	4.5
430	1.70 - 2.60	1.20	0.05	BR/ALUM	4.25	5
650	1.12 - 1.70	1.20	0.05	BR/ALUM	5.25	7.25

Ordering Information

WG CX - 90 - SMA - COVER - ALUMINUM - IRIDITE



Connector Types.. N-SMA - TNC - 2.4mm - 2.9mm - 3.5mm

Flange Type: COVER - CPRG - CPRF - CMR - CHOKE

***Material: Brass, Aluminum, Copper

Plating: Iridite, Silver

Contact the factory with your requirements

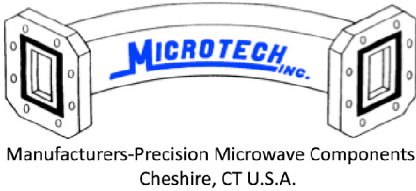
Microtech, Inc. Waveguide to Coax Adapters are made from a precision extruded tubing with end caps silver or dip brazed to give you a precise and durable unit for both lab and systems use over the full specified operating band, with a minimum VSWR and Insertion Loss.

These units can be built pressure tight on request. A Waveguide Adapter will be supplied with Female connector unless otherwise specified.

NOTE: Other configurations and specifications are available upon request. Adapters that conform to Mil-DTL-22641 are also available

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PAGE 028



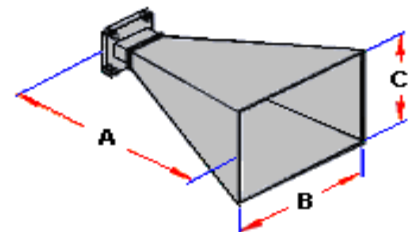
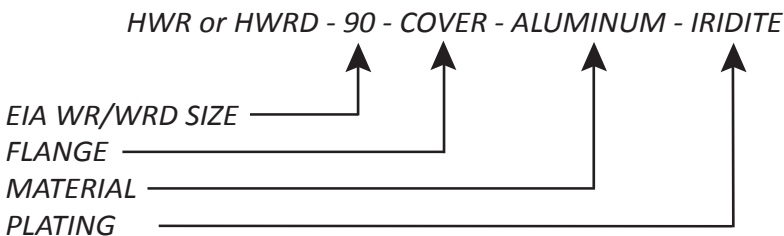
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STANDARD GAIN HORN SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS										
EIA WR/ WRD SIZE	MODEL No.	FREQUENCY RANGE (GHz)	H.P.B.W. (Nom.Deg.)	GAIN (dBi)			FLANGE EQUIV.	"A" DIM	"B" DIM	"C" DIM
				@FL	@FM	@FH				
28	HWR28	26.50 - 40.00	15	19.2	20.8	22.1	Brass-Cover	3.00	1.06	1.20
42	HWR42	18.00 - 26.50	15	18.8	20.4	21.7	Brass-Cover	4.50	2.26	1.60
62	HWR62	12.40 - 18.00	15	19	20.5	21.8	Brass-Cover	6.45	3.36	2.55
75	HWR75	10.00 - 15.00	15	19	20.6	21.9	Brass-Cover	7.89	4.15	3.12
90	HWR90	8.20 - 12.40	18	17.4	19	20.3	Brass-Cover	6.15	4.25	3.15
112	HWR112	7.05 - 10.00	20	17.2	18.5	19.8	Brass-Cover	6.89	4.80	3.57
137	HWR137	5.85 - 8.20	20	17.3	18.7	19.8	Brass-Cover	8.65	5.90	4.35
159	HWR159	4.90 - 7.05	24	15.5	16.8	18	Brass-CPRF	5.90	5.73	4.25
187	HWR187	3.95 - 5.85	32	12.4	14.2	15.7	Brass-Cover	6.38	4.80	3.42
229	HWR229	3.30 - 4.90	32	13	14.8	16.1	Brass-CPRF	6.38	6.15	4.48
284	HWR284	2.60 - 3.95	32	13.2	14.8	16.2	Brass-Cover	7.65	7.94	5.75
340	HWR340	2.20 - 3.30	34	13.1	14.7	16.3	Alum-CPRF	9.70	9.50	6.85
430	HWR430	1.70 - 2.60	32	13.3	15.2	16.5	Alum-CPRG	11.55	12.00	8.70
650	HWR650	1.12 - 1.70	32	13.1	15.1	16.2	Alum-CPRF	17.50	18.14	13.15

TYPICAL ELECTRICAL / MECHANICAL DOUBLE RIDGED										
D-180	HWRD180	18.00 - 40.00	18	15.2	18.9	21.3	Alum-Plate	2.47	1.48	1.09
D-750	HWRD750	7.50 - 18.00	18	15.3	19.3	21.7	Alum-Plate	5.85	3.59	2.55
D-650	HWRD650	6.50 - 18.00	18	14.1	19	21.8	Alum-Plate	5.85	3.6	2.55
D-475	HWRD475	4.75 - 11.00	18	15.2	19.1	21.4	Alum-Plate	9.14	5.55	4
D-350	HWRD350	3.50 - 8.20	25	12.1	16	18.3	Alum-Plate	5.14	5.25	3.85

Ordering Information



Note: Special Gain values also available. Dust covers and radomes are available on request Coaxial inputs available

Please contact the factory with your requirements.

Microtech, Inc. precision Standard Gain Horns are engineered, designed, and manufactured "in-house" utilizing computer aided design (CAD) and computer aided manufacturing (CAM) in our state of the art production facilities. We feature rugged dip or silver brazed construction, all at a reasonable cost. If you need a special configuration just contact the factory or our area Manufacturer's Representative with your requirements.



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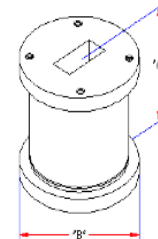
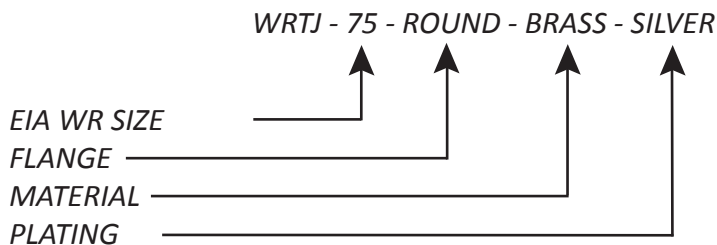
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WAVEGUIDE TORSIONAL JOINT SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WR SIZE	FREQUENCY RANGE (GHz)	VSWR 20% Max.	FLANGE	INSERTION LOSS MAX.	"A" DIMENSION	"B" DIA. MAX
22	33.00 - 50.00	1.40	Round	0.40	0.25	1.13
28	26.50 - 40.00	1.20	Cover	0.30	0.5	0.98
34	22.00 - 33.00	1.10	Round	0.20	0.5	1.10
42	18.00 - 26.50	1.10	Round	0.20	0.5	1.13
51	15.00 - 22.00	1.10	Round	0.20	1.0	1.50
62	12.40 - 18.00	1.10	Round	0.20	1.5	1.75
75	10.00 - 15.00	1.10	Round	0.10	2.5	1.94
90	8.20 - 12.40	1.10	Round	0.10	4.0	2.13
112	7.05 - 10.00	1.10	Round	0.08	5.0	2.50
137	5.85 - 8.20	1.10	CPRF	0.08	6.0	3.05
159	4.90 - 7.05	1.10	CPRF	0.06	7.0	3.80
187	3.95 - 5.85	1.10	CPRF	0.06	8.0	4.06
229	3.30 - 4.90	1.10	CPRF	0.05	10.0	4.52
284	2.60 - 3.95	1.10	CPRF	0.05	10.0	5.09
340	2.20 - 3.30	1.10	CPRF	0.05	12.0	6.42

Ordering Information



Notes: Units are Silver Plated Brass. Aluminum is also available.

Standard configuration covers 20% of the Band.

Normal motion is + or -50 Degrees rotation. Other values available upon request.

Units have tapped holes for Mounting.

Microtech, Inc. Torsional Joints will help

shield your system from torsional stresses. Low VSWR, low Insertion Loss, and High Power Handling Our complete are achieved through the use of infinitely variable one-quarter wavelength (1/4) steps. Presenting a more economical solution than a rotary joint, our rugged construction affords you long life under extreme operating conditions. Microtech, Inc. Torsional Joints feature minimum phase WOW, stable phase linearity and designs that lend themselves to high power applications, all at a reasonable cost. If you need a special configuration or a multi-channel rotary joint just contact the factory or our area representative with your requirements. Our complete in-house engineering and production facility is at your disposal.



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DOUBLE RIDGED FLEXIBLE WAVEGUIDE SPECIFICATIONS

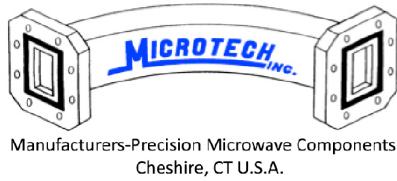
TYPICAL ELECTRICAL SPECIFICATIONS							
EIA WRD-SIZE	FREQUENCY RANGE (GHz)	MDKS FLEXIBLE		MFPS FLEXIBLE/TWISTABLE		MDBS SEAMLESS (BRASS)	
		Non Twistable				***MDBS SEAMLESS (BeCu)	
		VSWR	INSERTION LOSS	VSWR	INSERTION LOSS	VSWR	INSERTION LOSS
180	18.00-40.00	1.50	1.00	N/A	N/A	1.50	1.00
650	6.50-18.00	1.20	0.25	1.20	0.35	1.20	0.25
750	7.50-18.00	1.20	0.20	1.20	0.35	1.20	0.20
580	5.80-16.00	1.20	0.20	1.20	0.25	1.20	0.20
475	4.75-11.00	1.20	0.15	1.20	0.25	1.20	0.15
350	3.50-8.20	1.20	0.15	1.20	0.25	1.20	0.15
200	2.00-4.80	1.15	0.15	1.15	0.15	1.15	0.10

INSERTION LOSS is in dB per Foot with Silver Plated Waveguide

****Beryllium-Copper also available*

TYPICAL MECHANICAL SPECIFICATIONS				POWER HANDLING CAPABILITY			
EIA WRD-SIZE	WITH JACKET		WITHOUT JACKET		CW POWER IN WATTS		PEAK POWER IN KILLOWATTS
	INCHES		INCHES		Non-Twistable	Twistable	
	E-Plane	H-Plane	E-Plane	H-Plane			
180	0.75	1.13	0.50	0.90	150	50	2.75
650	1.75	3.00	0.75	1.50	600	200	12
750	1.75	3.00	0.75	1.50	750	250	16
580	1.75	3.00	0.75	1.50	1000	300	30
475	2.00	3.50	0.90	1.70	1500	500	40
350	3.00	5.00	1.75	2.25	2000	800	73
200	4.00	7.00	2.13	3.25	4000	1500	225

*Mechanical Specifications are for Flexible Waveguide
Tighter radii can be had with Seamless Flexible Waveguide
See other data sheet for Rectangular Flexible Waveguide*

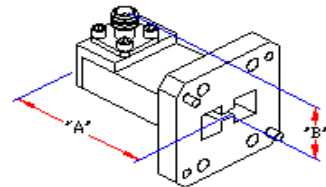
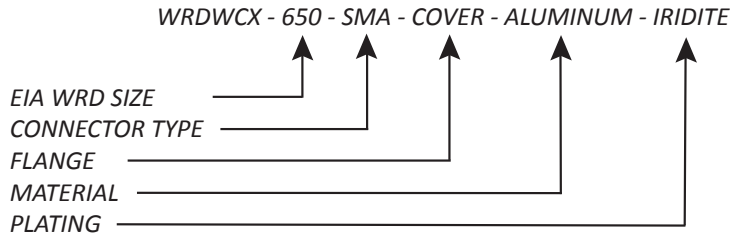


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DOUBLE RIDGED WAVEGUIDE TO COAX ADAPTER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS								
EIA WRD SIZE	FREQUENCY RANGE GHZ	VSWR	INSERTION LOSS	CONNECTOR TYPE*	FLANGE EQUIV.	MATERIAL	"A" DIMENSION (MAX) INCHES	"B" DIMENSION (MAX) INCHES
180	18.0 – 40.0	1.60	.75	2.9mm/2.4mm	COVER	Aluminum	1.50	0.7
650	6.5 – 18.0	1.25	.50	SMA	COVER	Aluminum	2.0	1.0
750	7.5 – 18.0	1.25	.50	SMA	COVER	Aluminum	2.0	1.0
580	5.8 – 16.0	1.35	.35	SMA//N/TNC	COVER	Aluminum	2.0	1.5
475	4.75 – 11.0	1.25	.35	SMA//N/TNC	COVER	Aluminum	3.0	1.5
350	3.5 – 8.2	1.25	.30	SMA//N/TNC	COVER	Aluminum	5.0	2.0
200	2.0 – 4.8	1.25	.30	SMA//N/TNC	COVER	Aluminum	8.0	3.0

Ordering Information



***Standard Waveguide to Coax Adapters are supplied with a female connector**

Microtech Inc. Waveguide to Coax Adapters are made from a precision extruded tubing with the end caps silver or dip brazed to give you a precise and durable unit for both lab and systems use over the full specified operating band, with a minimum VSWR and Insertion Loss. These units can be built to be pressure tight on request.

*Note: Other configurations and specifications available upon request.
 Adapters that conform to MIL-DTL-22641 are also available.
 Contact the factory with your requirements.*



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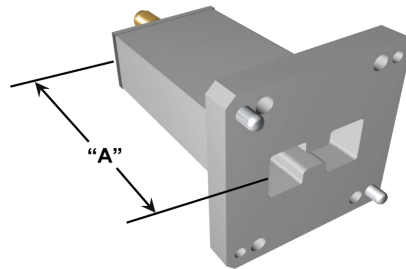
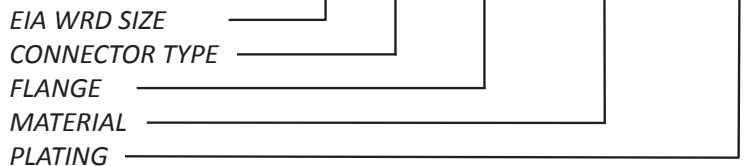
DOUBLE RIDGED WAVEGUIDE TO COAX END LAUNCH ADAPTER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WRD SIZE	FREQUENCY RANGE (GHz)	CONNECTOR TYPE	FLANGE	MATERIAL	"A" Dim. Max. Inches	PLATING
180	18.0 – 40.0	CUSTOMER TO SPECIFY	CUSTOMER TO SPECIFY	ALUMINUM	2.00	IRIDITE
650	6.5 – 18.0			ALUMINUM	3.00	IRIDITE
750	7.5 – 18.0			ALUMINUM	3.00	IRIDITE
580	5.8 – 16.0			ALUMINUM	3.00	IRIDITE
475	4.75 – 11.0			ALUMINUM	4.00	IRIDITE
350	3.5 – 8.2			ALUMINUM	6.00	IRIDITE
200	2.0 – 4.8			ALUMINUM	8.00	IRIDITE

Ordering Information

Customer to specify Frequency Range

WRDCXEL - 650 - SMA - COVER - ALUMINUM - IRIDITE



FLANGE TYPE : COVER - GASKET
 CONNECTOR: N - SMA - TNC - 2.4 mm - 2.9mm - 3.5mm
 MATERIAL : ALUMINUM
 PLATING : IRIDITE

Microtech, Inc. Waveguide to Coax Adapters are made from a precision extruded tubing with the end caps silver or dip brazed to give you a precise and durable unit for both lab and systems use over the full specified operating band, with a minimum VSWR and Insertion Loss. These units can be built to be pressure tight on request. Contact the factory with your specific requirements.



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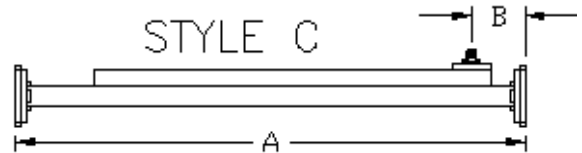
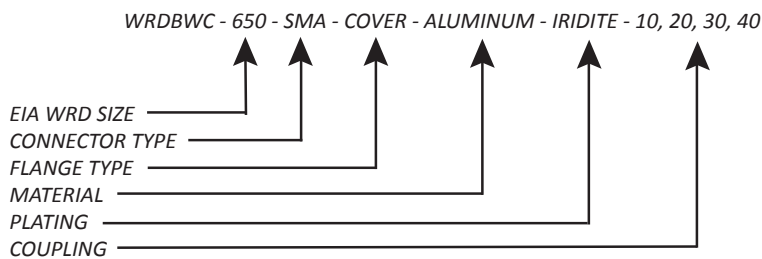
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DOUBLE RIDGED BROADWALL COUPLER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS					
EIA WRD SIZE	FREQUENCY RANGE (GHz)	COUPLING SENSITIVITY +/- (dB)	COUPLING AVERAGE +/- (dB)	PRIMARY ARM VSWR (Max.)	MINIMUM DIRECTIVITY (dB)
180	18.0 – 40.0	2	1.0	1.10	30
650	6.5 – 18.0	1.5	1.0	1.05	35
750	7.5 – 18.0	1.5	1.0	1.05	35
580	5.8 – 16.0	1.5	1.0	1.05	35
475	4.75 – 11.0	1.2	1.0	1.05	35
350	3.5 – 8.2	1.2	1.0	1.05	37
200	2.0 – 4.8	1.2	1.0	1.05	37

TYPICAL MECHANICAL SPECIFICATIONS					
EIA WRD	"A" Dim. Max. Inches		"B" Dim. Inches	FLANGE TYPE	COAX STYLE JACK
180	10.00		1.00	Cover	2.4
650	14.00		1.50	Cover	SMA
750	14.00		1.50	Cover	SMA
580	16.00		1.50	Cover	SMA
475	21.00		2.00	Cover	SMA
350	24.00		2.00	Cover	N
200	36.00		3.00	Cover	N

Ordering Information



Note: Standard coupling values are 10dB, 20dB, 30dB, and 40dB. Other values and configurations are available upon request. Specify coupling by adding as a suffix. Contact Factory with your requirements



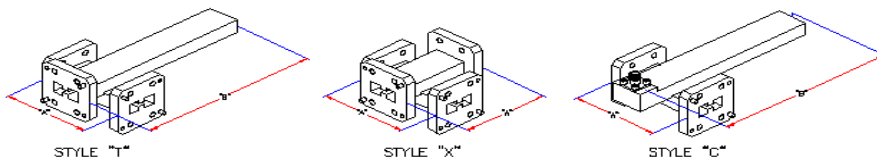
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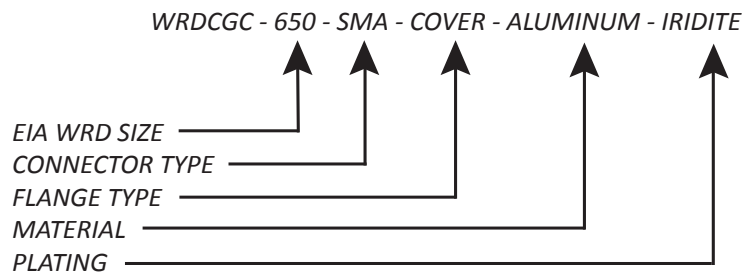
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DOUBLE RIDGED CROSSGUIDE COUPLER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS							
EIA WRD SIZE	FREQUENCY RANGE (GHz)	PRIMARY ARM VSWR (Max.)	COUPLING VARIATION +/- (dB)	FLANGE	"A" Dim. Max. Inches	"B" Dim. Max. Inches	STYLE "C" JACK
180	18.0 – 40.0	1.20	5.0	COVER	4.0	6.00	2.9
650	6.5 – 18.0	1.10	5.0	COVER	4.0	8.00	SMA
750	7.5 – 18.0	1.10	4.0	COVER	4.0	8.00	SMA
580	5.8 – 16.0	1.10	4.0	COVER	4.0	8.00	SMA
475	4.75 – 11.0	1.10	3.5	COVER	5.0	9.00	SMA
350	3.5 – 8.2	1.10	3.5	COVER	6.0	12.00	N
200	2.0 – 4.8	1.10	3.5	COVER	10.0	16.00	N



ORDERING INFORMATION



- Standard couplings available are 30, 40, 50, and 60. Others values available on special order. Specify by adding coupling and style desired as a suffix to the part number. Example: 240109 -30.
- Coaxial secondary outputs are also available. Contact the factory or our local Manufacturer's Representative for details.
- Nominal directivity is 12 dB.
- Material is 6061/6063 Aluminum.



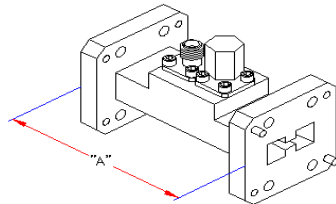
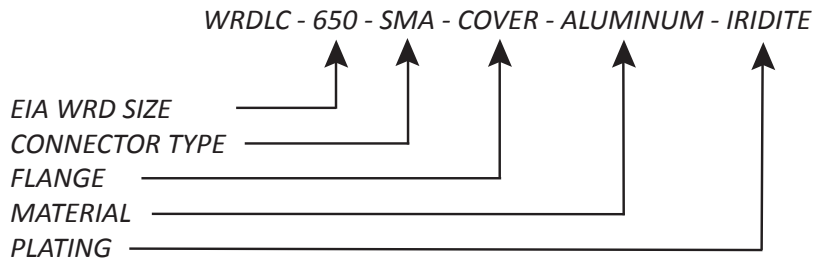
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DOUBLE RIDGED LOOP COUPLER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS							
EIA WRD SIZE	FREQUENCY RANGE (GHz)	PRIMARY ARM VSWR (Max.)	COUPLING VARIATION +/- (dB)	FLANGE	"A" Dim. Max. Inches	STYLE "C" JACK	MATERIAL
180	18.0 – 40.0	1.30	3.0	COVER	2.50	2.9	ALUMINUM
650	6.5 – 18.0	1.15	2.0	COVER	2.50	SMA	ALUMINUM
750	7.5 – 18.0	1.15	2.5	COVER	2.50	SMA	ALUMINUM
580	5.8 – 16.0	1.10	2.0	COVER	2.50	SMA	ALUMINUM
475	4.75 – 11.0	1.10	2.0	COVER	4.00	SMA	ALUMINUM
350	3.5 – 8.2	1.10	2.0	COVER	5.00	SMA	ALUMINUM
200	2.0 – 4.8	1.10	2.0	COVER	8.00	SMA	ALUMINUM

Ordering Information



- Standard couplings available are 30, 40, 50, and 60. Others values available on special order. Specify by adding coupling as a suffix to the part number. Example: 240184 -30.
- Nominal directivity is 10 Db min.



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Cheshire, CT U.S.A.

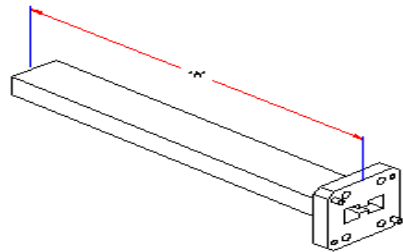
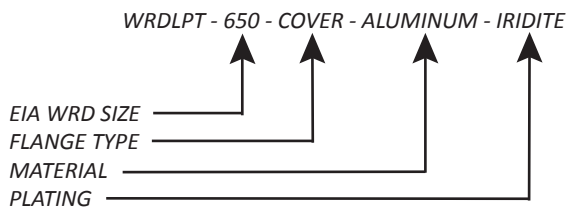
1425 Highland Ave (Rt. 10) P.O. Box 728
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DOUBLE RIDGED LOW POWER TERMINATION SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WRD SIZE	FREQUENCY RANGE GHZ	VSWR	FLANGE EQUIV.	MATERIAL	AVG. POWER HANDLING (Max. Watts)	"A" DIMENSION (MAX) INCHES
180	18.0 – 40.0	1.05	COVER	Aluminum	0.5	6.0
650	6.5 – 18.0	1.03	COVER	Aluminum	3.0	10.0
750	7.5 – 18.0	1.03	COVER	Aluminum	3.0	10.0
580	5.8 – 16.0	1.03	COVER	Aluminum	3.0	12.0
475	4.75 – 11.0	1.03	COVER	Aluminum	3.0	12.0
350	3.5 – 8.2	1.02	COVER	Aluminum	6.0	15.0
200	2.0 – 4.8	1.02	COVER	Aluminum	10.0	24.0

Ordering Information



Note: Other configurations, specifications, and power ratings available upon request as well as a large variety of high-power loads available to MIL-D-3954. Contact the factory with your requirements
Microtech, Inc. low power fixed terminations are designed where a matched load is desired to terminate a waveguide transmission line in a dissipative, nonreflecting component. Also used as standard matched load for the termination of waveguide components.



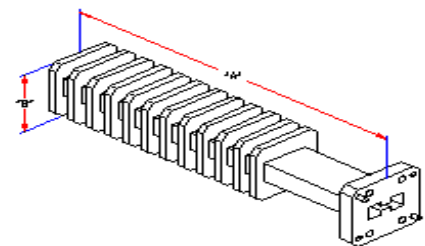
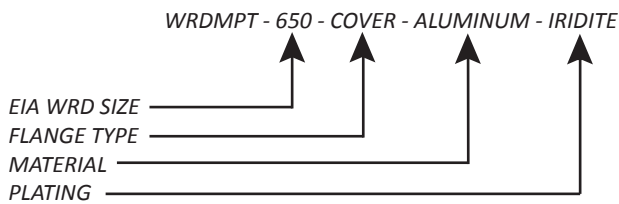
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DOUBLE RIDGED MEDIUM POWER TERMINATION SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS							
EIA WRD SIZE	FREQUENCY RANGE GHZ	VSWR	FLANGE EQUIV.	MATERIAL	AVG. POWER HANDLING (Max. Watts)	"A" DIMENSION (Max Watts)	"B" DIMENSION (Max. inches)
180	18.0 – 40.0	1.1	COVER	Aluminum	200	6.00	1.00
650	6.5 – 18.0	1.1	COVER	Aluminum	500	10.00	1.50
750	7.5 – 18.0	1.1	COVER	Aluminum	500	10.00	1.50
580	5.8 – 16.0	1.1	COVER	Aluminum	600	12.00	1.50
475	4.75 – 11.0	1.1	COVER	Aluminum	600	12.00	2.00
350	3.5 – 8.2	1.07	COVER	Aluminum	1000	15.00	3.00
200	2.0 – 4.8	1.07	COVER	Aluminum	1500	24.00	5.00

Ordering Information



Microtech, Inc. Medium Power Fixed Terminations are designed where a matched load is desired to terminate a waveguide transmission line in a dissipative, nonreflecting component. These units require no additional cooling at the rated power level. The fins can be mounted vertically on the unit for optimum convection cooling
Note: Other configurations, specifications, and power ratings available upon request as well as a large variety of lower and higher-power loads available to MIL-D-3954. Contact the factory with your requirements.

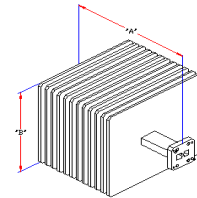
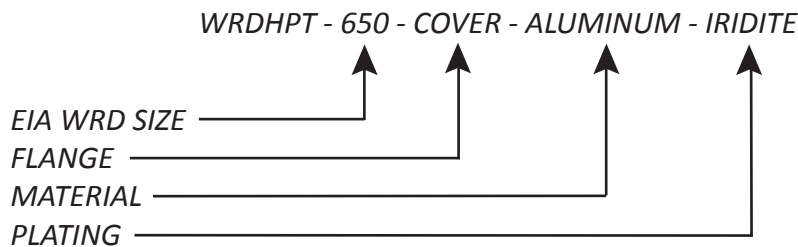


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DOUBLE RIDGED HIGH POWER TERMINATION SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS							
EIA WRD SIZE	FREQUENCY RANGE GHZ	VSWR	FLANGE EQUIV.	MATERIAL	AVG. POWER HANDLING (Max. Watts)	"A" DIMENSION (Max Watts)	"B" DIMENSION (Max. inches)
180	18.0 – 40.0	1.20	COVER	Aluminum	300	8.00	3.00
650	6.5 – 18.0	1.10	COVER	Aluminum	1500	12.00	5.00
750	7.5 – 18.0	1.10	COVER	Aluminum	1500	12.00	5.00
580	5.8 – 16.0	1.10	COVER	Aluminum	2000	14.00	6.00
475	4.75 – 11.0	1.10	COVER	Aluminum	2000	16.00	6.00
350	3.5 – 8.2	1.07	COVER	Aluminum	2500	18.00	8.00
200	2.0 – 4.8	1.07	COVER	Aluminum	3500	24.00	10.00

Ordering Information



Microtech, Inc. High Power Fixed Terminations are designed where a matched load is desired to terminate a waveguide transmission line in a dissipative, nonreflecting component. These units require no additional cooling at the rated power level. The fins can be mounted vertically on the unit for optimum convection cooling.

Note: Other configurations, specifications, and power ratings available upon request, as well as a large variety of lower and higher-power loads available to MIL-D-3954. Contact the factory with your requirements.



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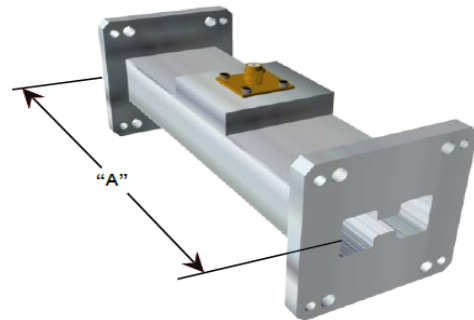
DOUBLE RIDGED WAVEGUIDE POWER SAMPLER SPECIFICATIONS

TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS						
EIA WRD SIZE	FREQUENCY RANGE (GHz)	CONNECTOR TYPE	FLANGE	MATERIAL	"A" Dim. Max. Inches	PLATING
180	18.0 – 40.0	2.7	COVER	ALUMINUM	2.00	IRIDITE
650	6.5 – 18.0	SMA	COVER	ALUMINUM	3.00	IRIDITE
750	7.5 – 18.0	SMA	COVER	ALUMINUM	3.00	IRIDITE
580	5.8 – 16.0	SMA	COVER	ALUMINUM	3.00	IRIDITE
475	4.75 – 11.0	SMA	COVER	ALUMINUM	4.00	IRIDITE
350	3.5 – 8.2	N	COVER	ALUMINUM	6.00	IRIDITE
200	2.0 – 4.8	N	COVER	ALUMINUM	8.00	IRIDITE

Ordering Information

Customer to specify Frequency Range

WRDCXEL - 650 - SMA - COVER - ALUMINUM - IRIDITE



FLANGE TYPE : COVER - GASKET
CONNECTOR: N - SMA - 2.7 mm - 2.9mm
MATERIAL : ALUMINUM
PLATING : IRIDITE

Microtech, Inc. **DOUBLE RIDGED WAVEGUIDE SAMPLERS** are designed and built using the latest software and precision CNC machining. Typically, Power Sampling values range from 30 to 60 Db. Other values are available on request. Contact factory direct with your specific requirements



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DOUBLE RIDGED PRESSURE WINDOW SPECIFICATIONS

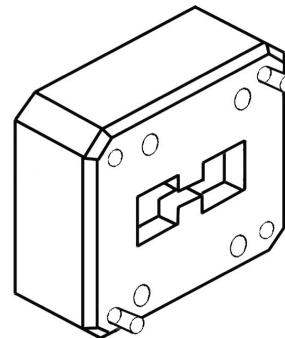
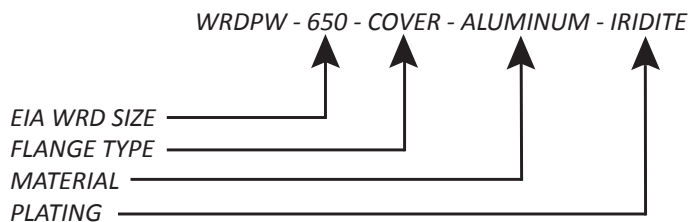
TYPICAL ELECTRICAL / MECHANICAL SPECIFICATIONS								
MIL-W-23351/4	FREQUENCY RANGE (GHz)	VSWR Max.	INSERTION LOSS (dB)	PEAK POWER (kW)	PSIG Max	FLANGE TYPE	FLANGE MATERIAL	OVERALL LENGTH
WRD-180	18.00 - 40.00	1.2	0.2	3	45	Cover / Gasket	Alum.	0.375
WRD-750	7.50 - 18.00	1.07	0.1	15	30	Cover / Gasket	Alum.	0.375
WRD-650	6.50 - 18.00	1.1	0.12	12	30	Cover / Gasket	Alum.	0.375
WRD-580	5.80 - 16.00	1.1	0.12	20	30	Cover / Gasket	Alum.	0.375
WRD-475	4.75 - 11.00	1.07	0.05	40	30	Cover / Gasket	Alum.	0.375
WRD-350	3.50 - 8.20	1.05	0.04	70	20	Cover / Gasket	Alum.	0.375
WRD-200	2.00 - 4.80	1.03	0.03	200	15	Cover / Gasket	Alum.	0.375

Note: Other configurations and specifications are available upon request.

Contact the factory with your requirement.

Note: All Flanges will have clear holes.

Ordering Information



Microtech's Pressure Windows are used where it is desirable to environmentally isolate a section of transmission line or component, to increase power-handling capacity, or to prevent corrosion in high ambient humidity or dusty conditions.



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ORDERING INFORMATION

EXAMPLE - FLEXIBLE WAVEGUIDE ASSEMBLY

MTPS284CHN120BS is a straight WR284 Flexible/Twistable waveguide assembly with silver-plated flex, choke to cover flange combination, with a molded neoprene jacket, 120 inches long with brass flanges, Silver plated.

EXAMPLE - RIGID WAVEGUIDE ASSEMBLY

MRHC 112 CH P 144A is a straight WR112 rigid waveguide assembly aluminum with choke and cover flanges, painted, length of 144 inches, with aluminum flanges.

EXAMPLE - RIGID WAVEGUIDE BEND ASSEMBLY

Bends are specified by placing the Degree of the bend and the Plane (E or H) in the fourth grouping of letters. Leg symmetry is specified in the last grouping. For bend assemblies with uneven leg symmetry and flange combinations, flange type on each leg must be specified on the order.

MRCC 62 HC 90E 12 x 6B is a WR62 rigid waveguide bend assembly, OFHC copper, cover to choke flange combination, 90 degree E-plane bend with a leg symmetry of 12 inches center-line to flange face by 6 inches center-line to flange face, with brass flanges, Chromate. Flange type on each leg shall be specified on order.

EXAMPLE - RIGID WAVEGUIDE TWIST

Twists are specified by placing the Degree of twist, the letter "T", and the Direction of the twist (C = clockwise, CC = counter-clockwise) in the fourth grouping of letters. Overall length is specified in the last grouping of letters.

MRFC 137 GG 45TC 6B is a straight WR137 rigid waveguide assembly, commercial bronze, CPRG flanges at both ends, 45 degree twist in the clockwise direction, 6 inches long, with brass flanges. Chromate finish

SEE FOLLOWING PAGES FOR DETAIL ORDERING

ORDERING INFORMATION
EXAMPLE: FLEX-WAVEGUIDE ASSEMBLY
MTPS284CHN12BT

*Is a WR284 Flex/Twist waveguide assy.
with silver-plated flex, choke/plate flange,
molded neoprene jacket, 12 in. long, brass flange, Tin finish*

MTPS 284 CH N 12 BT

Waveguide Type

FLEXIBLE
MTPS-FLEXIBLE/TWISTABLE
MCKS-FLEX/NON-TWISTABLE
MSB-SEAMLESS FLEXIBLE- BRASS
MSD-SEAMLESS FLEXIBLE-BERYLLIUM COPPER
MTEs-EXTRA FLEXIBLE/TWISTABLE-BRASS
MSN SEAMLESS ELECTROFORMED
MSP SEAMLESS-PHOSPHOR BRONZE
S- Following waveguide type Designates Silver Plate

RIGID
MRH-ALUMINUM 6061
MRA-ALUMINUM 1100
MRC-OFHC COPPER
MRF-COMMERCIAL BRONZE
MRT-COIN SILVER
Rigid assemblies are not jacketed.
All Alum/Bronze & OFHC receive Chromate coating

WAVEGUIDE SIZE
284

JACKET
N - NEOPRENE
S - SILICONE
V - VINYL (8802)
B - BRUSH-ON SILICONE
A - UNJACKETED
P - PAINT (SPECIFY)

FLANGE PLATING	
S- SILVER	N- NICKEL
R- RHODIUM	C- CADMIUM
T- TIN	
Non plated flanges will be Chromated	

FLANGE MATERIAL
A - ALUMINUM
B - BRASS

LENGTH
12 INCHES

LETTER	FLANGES
C	CHOKE (STANDARD TAPPED HOLES)
D	CHOKE (CLEAR HOLES)
E	CMR (ALT. CLEAR/TAP)
F	CPRF (STANDARD CLEAR HOLES)
G	CPRG (STANDARD CLEAR HOLES)
H	PLATE (STANDARD CLEAR HOLES)
J	PLATE (GASKET GROOVE ONLY) CLEAR HOLES
K	PLATE (GASKET GROOVE ONLY) TAPPED HOLES
L	PLATE (TAPPED HOLES)
M	CBR (CLEAR HOLES)
W	PBR (CLEAR HOLES)
U	UBR (CLEAR HOLES)
T	CDR (CLEAR HOLES)
Y	PDR (CLEAR HOLES)
R	UDR (CLEAR HOLES)
Z	SPECIAL (CUSTOMER TO SPECIFY)
*	Other flanges available upon request

ORDERING PAGE 1

FOR DOUBLE RIDGED SEE PAGE 3

ORDERING INFORMATION
EXAMPLE; RIGID/TWIST-WAVEGUIDE ASSEMBLY
MRHC137FG45TC96BC
Is a WR137 Rigid waveguide assy.
with a CPRF/CPRG flanges with a 45 degree Twist
Clockwise, 96 in. long, with brass flanges, Cadmium Plate

MRC 137 FG 45 TC 96 BC

Waveguide Type

FLEXIBLE
MTPS-FLEXIBLE/TWISTABLE
MCKS-FLEX/NON-TWISTABLE
MSB-SEAMLESS FLEXIBLE- BRASS
MSD-SEAMLESS FLEXIBLE-BERYLLIUM COPPER
MTES-EXTRA FLEXIBLE/TWISTABLE-BRASS
MSN SEAMLESS ELECTROFORMED
MSP SEAMLESS-PHOSPHOR BRONZE
S- Following waveguide type Designates Silver Plate

RIGID
MRH-ALUMINUM 6061
MRA-ALUMINUM 1100
MRC-OFHC COPPER
MRF-COMMERCIAL BRONZE
MRT-COIN SILVER
All Alum/Bronze & OFHC receive Chromate coating

WAVEGUIDE SIZE
137

TWIST
45 Degree

DIRECTION
TC- Twist Clockwise
TCC- Twist Counterclockwise

FLANGE PLATING	
S-SILVER	N - NICKEL
R-RHODIUM	C - CADMIUM
T-TIN	
Non plated flanges will be Chromated	

FLANGE MATERIAL	
A - ALUMINUM	
B - BRASS	

LENGTH
96 Inches

LETTER	FLANGES
C	CHOKE (STANDARD TAPPED HOLES)
D	CHOKE (CLEAR HOLES)
E	CMR (ALT. CLEAR/TAP)
F	CPRF (STANDARD CLEAR HOLES)
G	CPRG (STANDARD CLEAR HOLES)
H	PLATE (STANDARD CLEAR HOLES)
J	PLATE (GASKET GROOVE ONLY) CLEAR HOLES
K	PLATE (GASKET GROOVE ONLY) TAPPED HOLES
L	PLATE (TAPPED HOLES)
M	CBR (CLEAR HOLES)
W	PBR (CLEAR HOLES)
U	UBR (CLEAR HOLES)
T	CDR (CLEAR HOLES)
Y	PDR (CLEAR HOLES)
R	UDR (CLEAR HOLES)
Z	SPECIAL (CUSTOMER TO SPECIFY)
*	Other flanges available upon request

ORDERING INFORMATION
EXAMPLE-DOUBLE RIDGED FLEX ASSEMBLY
MFPS750AEN12BS

*Is a WRD750 Flex/Twist assembly.
with silver-plated flex,gasket/plate flanges
molded neoprene jacket, 12 in.long, with brass flanges plated Silver.*

DOUBLE RIDGED ASSEMBLIES

MFPS 750 AE N 12 BS

Waveguide Type

DOUBLE RIDGED FLEXIBLE
MFPS-DOUBLE RIDGED-FLEX/TWIST-BRASS
MDK - DOUBLE RIDGED-NON/TWIST-BRASS
MDB - DOUBLE RIDGED-SEAMLESS-BRASS
MDD-DOUBLE RIDGED-SEAMLESS-BERYLLIUM COPPER
S- Following waveguide type Designates Silver Plate

WAVEGUIDE SIZE
750

JACKET
N - NEOPRENE
S - SILICONE
V - VINYL (8802)
B - BRUSH-ON SILICONE
A - UNJACKETED
P - PAINT (SPECIFY)

FLANGE	PLATING
S-SILVER	N - NICKEL
R-RHODIUM	C-CADMIUM
T-TIN	
Non plated flanges will be Chromated	

FLANGE MATERIAL
A - ALUMINIUM
B - BRASS

LENGTH
12 INCHES

DOUBLE RIDGED WAVEGUIDE
MPA-ALUMINIUM DOUBLE RIDGED
MPF-BRONZE-DOUBLE RIDGED

All Alum/Bronze & OFHC receive Chromate coating
All Double Ridged Rigid assemblies are not jacketed

LETTER	FLANGES
A	GASKET (ALL TAPPED HOLES)
B	GASKET (ALL CLEAR HOLES)
C	GASKET (ALTERNATE TAP/CLEAR)
D	PLATE (ALL TAPPED HOLES)
E	PLATE (ALL CLEAR HOLES)
F	PLATE (ALTERNATE TAP/CLEAR)
*	Other flanges available upon request