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RECTANGULAR FLEXIBLE WAVEGUIDE SPECIFICATIONS

TYPICAL ELECTRICAL SPECIFICATIONS

EIA WR SIZE	FREQ. RANGE GHz.	Flexible Non-Twistable		Flexible Twistable		Seamless (Brass)	
		* VSWR	** ATTEN.	* VSWR	** ATTEN.	* VSWR	** ATTEN.
22	33.0-50.0	1.35	1.000	1.35	1.200	SEE "MILLIMETER FLEX" DATA SHEET	
28	26.5-40.0	1.30	0.500	1.30	0.600		
42	18.0-26.5	1.20	0.320	1.20	0.350	1.30	0.350
62	12.4-18.0	1.15	0.150	1.12	0.200	1.12	0.150
75	10.0-15.0	1.12	0.130	1.12	0.150	1.10	0.120
90	8.20-12.4	1.10	0.090	1.10	0.100	1.10	0.100
102	7.00-11.0	1.10	0.080	1.10	0.090	1.10	0.060
112	7.05-10.0	1.09	0.060	1.10	0.080	1.10	0.060
137	5.85-8.20	1.09	0.045	1.09	0.070	1.10	0.050
159	4.90-7.05	1.08	0.040	1.09	0.060	1.10	0.040
187	3.95-5.85	1.08	0.030	1.09	0.050	1.09	0.030
229	3.30-4.90	1.07	0.022	1.07	0.023	1.08	0.020
284	2.60-3.95	1.09	0.018	1.09	0.018	1.08	0.018
430	1.70-2.60	1.07	0.010	1.07	0.010	N/A	N/A
650	1.12-1.70	1.06	0.005	1.06	0.005	N/A	N/A

* VSWR is per 2 Ft. Section except Millimeter which is per Ft. / ** Attenuation is dB per Ft.

Typical Mechanical Specifications

Bend Radii to Centerline

EIA WR Size	With Jacket (In Inches)		Without Jacket (In Inches)	
	E-Plane	H-Plane	E-Plane	H-Plane
22	.75	1.13	.44	.94
28	.75	1.13	.44	.94
42	.88	1.25	.57	.88
62	1.00	1.88	.69	1.25
75	1.13	2.25	.63	1.25
90	1.75	2.50	1.25	1.50
102	2.00	2.88	1.30	1.94
112	2.25	3.25	1.40	1.82
137	2.38	3.38	1.50	2.07
159	4.00	6.00	1.60	2.25
187	4.38	6.50	1.94	3.00
229	6.50	8.00	2.13	3.25
284	7.00	9.50	2.94	6.50
430	12.0	25.0	4.82	6.63
650	20.0	40.0	14.0	28.0

Power Handling Capability

EIA WR Size	CW Power In Watts		PEAK Power In Kilowatts
	Non-Twistable	Twistable	
22	75	25	12
28	150	75	20
42	300	100	39
62	1,000	400	100
75	1,500	750	140
90	3,000	1,000	180
102	4,000	1,500	300
112	4,000	1,500	315
137	5,000	2,000	500
159	6,000	2,500	1,100
187	6,500	3,000	1,250
229	8,000	4,000	1,550
284	10,000	4,000	2,000
430	20,000	10,000	4,700
650	20,000	10,000	10,700

Mechanical Specifications are for Non twistable Flexible Waveguide. Tighter radii can be had with Seamless Flexible Waveguide. See other data sheets for Double ridge Flexible Waveguide and Millimeter Flexible Waveguide.