



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

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RECTANGULAR FLEXIBLE WAVEGUIDE SPECIFICATIONS

TYPICAL ELECTRICAL SPECIFICATIONS						
		MCKS		MTPS		MSBS...Seamless Brass
EIA WR SIZE	FREQUENCY RANGE (GHz)	Flexible Non-Twistable		Flexible/Twistable		MSDS...Seamless Beryllium Copper
		*VSWR	**INSERTION LOSS	*VSWR	**INSERTION LOSS	*VSWR
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
42	18.00 - 26.50	1.20	0.32	1.20	0.35	1.20
51	15.00 - 22.00	1.20	0.32	1.20	0.35	1.20
62	12.40 - 18.00	1.12	0.15	1.12	0.20	1.12
75	10.00 - 15.00	1.12	0.13	1.12	0.15	1.10
90	8.20 - 12.40	1.10	0.09	1.10	0.10	1.10
102	7.00 - 11.00	1.10	0.08	1.10	0.09	1.10
112	7.05 - 10.00	1.09	0.06	1.10	0.08	1.10
137	5.85 - 8.20	1.09	0.05	1.09	0.07	1.10
159	4.90 - 7.05	1.08	0.04	1.09	0.06	1.10
187	3.95 - 5.85	1.08	0.03	1.09	0.05	1.09
229	3.30 - 4.90	1.07	0.02	1.07	0.02	1.08
284	2.60 - 3.95	1.07	0.02	1.07	0.02	1.08
340	2.20 - 3.30	1.07	0.01	1.07	0.01	N/A
430	1.70 - 2.60	1.07	0.01	1.07	0.01	N/A
650	1.12 - 1.70	1.06	0.01	NA	NA	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	
	With Jacket		Without Jacket			
	E - Plane	H - Plane	E - Plane	H - Plane	MCK/MSB/MSD	MTP
22	0.75	1.13	0.44	0.94	75	25
28	0.75	1.13	0.44	0.94	150	75
34	0.75	1.13	0.44	0.94	200	100
42	0.88	1.25	0.57	1.00	300	100
51	0.88	1.25	0.57	1.00	500	200
62	1.00	1.88	0.69	1.25	1,000	400
75	1.13	2.25	0.63	1.25	1,500	750
90	1.75	2.50	1.25	1.50	3,000	1,000
102	2.00	2.88	1.3	1.94	4,000	1,500
112	2.25	3.25	1.4	1.82	4,000	1,500
137	2.38	3.38	1.5	2.07	5,000	2,000
159	4.00	6.00	1.6	2.25	6,000	2,500
187	4.38	6.50	1.94	3.00	6,500	3,000
229	6.50	8.00	2.13	3.25	8,000	4,000
284	7.00	9.50	2.94	5.50	10,000	4,000
340	10.00	16.00	4.25	6.00	16,000	8,000
430	12.00	25.00	4.82	6.63	20,000	10,000
650	20.00	40.00	14	28.00	20,000	NA

*Mechanical Specifications are for Non-Twistable Waveguide
Tighter Radii can be accommodated with Seamless Flexible Waveguide*
DATA 001 DOC.