



Manufacturers-Precision Microwave Components  
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## MILLIMETER SEAMLESS FLEXIBLE WAVEGUIDE SPECIFICATIONS

<b>TYPICAL ELECTRICAL SPECIFICATIONS</b>						
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.

<b>TYPICAL MECHANICAL SPECIFICATIONS</b>					
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.