

**Microwavefilters® & **

**Flexible**

**Twistable**

**Waveguides**

**Flexible & Twistable Waveguide  
Assemblies from WR284/R32 to  
WR22/R400**

**Microwavefilters & TVC srl**

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## Flex-Twist WG Assemblies from 2 to 50 GHz

### Electrical Characteristics

IEC R	EIA WR	Frequency Range (GHz)	Return Loss (dB)			Att. dB/m	CW Power Watt	Peak Power kW
			300 mm	600 mm	1000 mm			
32	284	2.6 – 3.95	30.7	29.4	28.3	0.12	4000	2000
40	229	3.22 – 4.90	30.7	29.4	28.3	0.14	4000	1550
48	187	3.94 – 5.99	29.4	27.3	26.4	0.17	3000	1250
58	159	4.64 – 7.05	29.4	27.3	26.4	0.22	2500	1100
70	137	5.38 – 8.18	29.4	27.3	26.4	0.30	2000	500
84	112	6.58 – 10.0	28.3	26.4	25.7	0.36	1500	315
100	90	8.20 – 12.5	28.3	26.4	25.7	0.42	1000	180
120	75	9.84 – 15.0	27.3	25.7	24.9	0.55	750	140
140	62	11.9 – 18.0	27.3	25.7	24.3	0.90	400	100
180	51	14.5 – 22.0	24.9	23.7	23.1	1.45	200	70
220	42	17.6 – 26.7	23.0	22.1	20.1	2.00	100	39
260	34	21.7 – 33.0	21.7	20.8	19.4	2.40	100	30
320	28	26.4 – 40.1	21.0	19.7	18.8	2.70	75	20
400	22	33.0 – 50.1	18.0	16.5	16.0	2.80	25	12

### Mechanical Characteristics

IEC R	EIA WR	Minimum Bend Radius					Pressure (mbar)
		Static E Plane (mm)	Static H Plane (mm)	Static Twist Maximum Degree (deg/m)	Repeated Twist Maximum Degree (deg/m)		
32	284	177	241	105	25	≥ 400	
40	229	165	203	130	35	≥ 400	
48	187	111	165	155	40	≥ 400	
58	159	101	152	185	45	≥ 400	
70	137	60	85	210	52	≥ 400	
84	112	57	82	260	68	≥ 400	
100	90	44	63	315	76	≥ 400	
120	75	28	57	365	92	≥ 400	
140	62	25	47	445	112	≥ 400	
180	51	22	31	445	112	≥ 400	
220	42	22	31	630	157	≥ 400	
260	34	19	28	630	157	≥ 400	
320	28	19	28	920	230	≥ 400	
400	22	19	28	920	230	≥ 400	