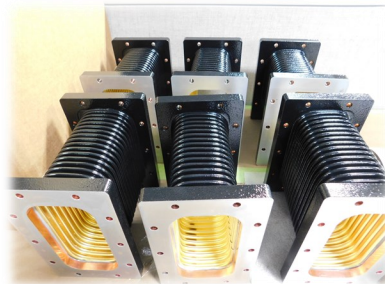


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# FLEXIBLE WAVEGUIDE TECHNICAL DATA

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# FLEXIBLE WAVEGUIDE TECHNICAL DATA



Waveguide Size	Frequency Range (GHz)	VSWR*	Attenuation**	Bend Radii to Centerline***				Average Power (Kilowatts)	Peak Power (Megawatts)	Pressurization (PSIG)	
				E-Plane w/Jacket	H-Plane w/Jacket	E-Plane No Jacket	H-Plane No Jacket			Aluminum	Copper
WR90	8.20 - 12.40	1.10	0.09	1.75 (44.45)	2.50 (111.3)	1.25 (31.75)	1.50 (38.10)	3	0.18	N/A	20.00
WR102	7.00 - 11.00	1.10	0.08	2.00 (50.80)	2.88 (73.15)	1.30 (33.02)	1.94 (49.28)	4	0.30	N/A	20.00
WR112	7.05 - 10.00	1.09	0.06	2.25 (57.15)	3.25 (82.55)	1.40 (35.56)	1.82 (46.23)	4	0.31	N/A	20.00
WR137	5.85 - 8.20	1.09	0.05	2.38 (60.45)	3.38 (85.85)	1.50 (38.10)	2.07 (52.58)	5	0.50	N/A	15.00
WR159	4.90 - 7.05	1.08	0.04	4.00 (101.6)	6.00 (152.4)	1.60 (40.64)	2.25 (57.15)	6	1.10	N/A	15.00
WR187	3.95 - 5.85	1.08	0.03	4.38 (111.3)	6.50 (165.1)	1.94 (49.28)	3.00 (76.20)	6	1.25	N/A	15.00
WR229	3.30 - 4.90	1.07	0.02	6.50 (165.1)	8.00 (203.2)	2.13 (54.10)	3.25 (82.55)	8	1.55	N/A	10.00
WR284	2.60 - 3.95	1.09	0.02	7.00 (177.8)	9.50 (241.3)	2.94 (74.68)	5.50 (139.7)	10	2.00	N/A	10.00
WR340	2.20 - 3.30	1.08	0.01	N/A	N/A	4.25 (107.9)	6.00 (152.4)	16	3.70	N/A	5.00
WR430	1.70 - 2.60	1.07	0.01	N/A	N/A	6.00 (152.4)	8.00 (203.2)	20	4.70	N/A	5.00
WR510	1.45 - 2.20	1.07	0.01	N/A	N/A	6.00 (152.4)	12.00 (304.8)	20	4.70	N/A	5.00
WR650	1.12 - 1.70	1.06	0.01	N/A	N/A	6.00 (152.4)	12.00 (304.8)	150	11	N/A	5.00
WR770	0.96 - 1.45	1.05	0.01	N/A	N/A	6.00 (152.4)	12.00 (304.8)	210	15	1.00	N/A
WR975	0.75 - 1.12	1.05	0.01	N/A	N/A	9.00 (228.6)	18.00 (457.2)	350	25	0.50	N/A
WR1150	0.64 - 0.96	1.05	0.01	N/A	N/A	12.00 (304.8)	24.00 (609.6)	490	35	0.30	N/A
WR1500	0.49 - 0.75	1.05	0.01	N/A	N/A	12.00 (304.8)	30.00 (762.0)	840	60	0.25	N/A
WR1800	0.41 - 0.62	1.05	0.01	N/A	N/A	18.00 (457.2)	36.00 (914.4)	1200	86	0.25	N/A
WR2100	0.35 - 0.53	1.05	0.01	N/A	N/A	24.00 (609.6)	42.00 (1066.8)	1300	117	0.25	N/A
WR2300	0.32 - 0.49	1.05	0.01	N/A	N/A	24.00 (609.6)	48.00 (1219.2)	1540	141	0.25	N/A

\*VSWR is per 2 foot section    \*\* Attenuation is in dB per foot    \*\*\*Bend Radii is inches (mm.)

# COMPRESSED CONVOLUTION TECHNICAL DATA



Waveguide Size	Frequency Range (GHz)	VSWR*	Attenuation**	Movement (% of total length)				Average Power (Kilowatts)	Peak Power (Megawatts)
				E-Plane Standard	E-Plane Com. Conv.	H-Plane Standard	H-Plane Com. Conv.		
WR650	1.12 - 1.70	1.06	0.01	3%	5.8%	2%	3.6%	150	11
WR770	0.96 - 1.45	1.05	0.01	3%	5.8%	2%	3.6%	210	15
WR975	0.75 - 1.12	1.05	0.01	3%	5.8%	2%	3.6%	350	25
WR1150	0.64 - 0.96	1.05	0.01	3%	5.8%	2%	3.6%	490	35
WR1500	0.49 - 0.75	1.05	0.01	3%	5.8%	2%	3.6%	840	60
WR1800	0.41 - 0.62	1.05	0.01	3%	5.8%	2%	3.6%	1200	86
WR2100	0.35 - 0.53	1.05	0.01	3%	5.8%	2%	3.6%	1300	117
WR2300	0.32 - 0.49	1.05	0.01	3%	5.8%	2%	3.6%	1540	141

\*VSWR is per 2 foot section

\*\* Attenuation is in dB per foot

