

Shanghai HEXU Microwave Technology Co. Ltd

Flexible Twistable Waveguide Specifications

ELECTRICAL SPECIFICATIONS													
Waveguide Designation			Freq.Range (GHz)	Insertion Loss(dB/m)	Suggested Power Limit		Return Loss (dB)						
					Peak(MW)	Average(KW)	300mm	600mm	900mm	1000mm	1200mm	1500mm	1800mm
R48	WR187	WG12	3.94-5.99	0.16	1.4	3	31	28.8	28.3	28.3	26.4	23.1	21.7
R58	WR159	WG13	4.64-7.05	0.18	0.6	2.5	31	28.3	27.8	27.8	26.4	23.1	21.7
R70	WR137	WG14	5.38-8.17	0.25	0.56	2	30.2	27.8	27.3	27.3	26.4	23.1	21.7
R84	WR112	WG15	6.57-9.99	0.3	0.33	1.5	30.2	27.3	27.1	27.1	26.4	23.1	21.7
R100	WR90	WG16	8.20-12.5	0.4	0.22	1	30.2	27.1	27	27	25.2	22.1	19.7
R120	WR75	WG17	9.84-15	0.5	0.18	0.75	29.4	27	26.4	26.4	24	20.93	19.7
R140	WR62	WG18	11.9-18	0.65	0.12	0.4	29.4	26.4	26	26	24	20.93	19.7
R220	WR42	WG20	17.7-26.5	1.2	0.045	0.1	23	22.1	21.1	21.1	-	-	-
R320	WR28	WG22	26.5-40	2	0.022	0.075	21	20.8	20.8	20.8	-	-	-
R400	WR22	WG23	33-50	2.5	-	-	20	16.5	15.6	16	-	-	-

MECHANICAL SPECIFICATIONS								
Waveguide Designation			Max Twist(Deg/m)		Min E-Bending Radii(mm)		Min H-Bending Radii(mm)	
			Static	Repeated	Static	Repeated	Static	Repeated
R48	WR187	WG12	155	40	136	544	272	1088
R58	WR159	WG13	185	45	116	464	232	928
R70	WR137	WG14	210	52	100	400	200	800
R84	WR112	WG15	260	68	82	328	164	656
R100	WR90	WG16	315	76	66	264	132	528
R120	WR75	WG17	365	92	54	216	108	432
R140	WR62	WG18	445	112	46	184	92	368
R220	WR42	WG20	630	157	30	120	60	240
R320	WR28	WG22	920	230	20	80	40	160
R400	WR22	WG23	920	230	18	78	38	158