

## Waveguide Frequency Ranges, Dimensions and Designations

FREQUENCY RANGE (GHz)	INTERNAL DIMENSIONS		OFFICIAL DESIGNATIONS				COMMERCIAL DESIGNATIONS						
	(inches)	(mm. approx)	I.E.C.	U.K. (RCSC)	U.S. (EIA)	U.S. (JAN)	U.K.	D-B	H-P	MRI	Narda	Philips	TRG
0.32- 0.49	23.0 x 11.0	584.0 x 292.0		WG00	WR2300								
0.35- 0.53	21.0 x 10.5	533.0 x 267.0		WG0	WR2100								
0.41- 0.625	18.0 x 9.0	457.0 x 229.0		WG1	WR1800	RG-201/U							
0.49- 0.75	15.0 x 7.5	381.0 x 191.0		WG2	WR1500	RG-202/U							
0.64- 0.96	11.5 x 5.75	292.0 x 146.0		WG3	WR1150	RG-203/U							
0.75- 1.12	9.75 x 4.875	248.0 x 124.0		WG4	WR975	RG-204/U				P			
0.96- 1.45	7.7 x 3.85	196.0 x 98.0		WG5	WR770	RG-205/U							
1.12- 1.7	6.5 x 3.25	165.0 x 83.0	R14	WG6	WR650	RG-69/U	L			L	L	L(25cm)	L
1.45- 2.2	5.1 x 2.55	131.0 x 65.0	R18	WG7	WR510							D	
1.7 - 2.6	4.3 x 2.15	109.0 x 55.0	R22	WG8	WR430	RG-104/U				M	LS		
2.2 - 3.3	3.4 x 1.7	86.0 x 43.0	R26	WG9A	WR340	RG-112/U							
2.6 - 3.95	2.84 x 1.34	72.0 x 34.0	R32	WG10	WR284	RG-48/U	S	L	S	S	S	S(10cm)	S
3.3 - 4.9	2.29 x 1.145	59.0 x 29.0	R40	WG11A	WR229							A(7.5cm)	
3.95- 5.85	1.872x 0.872	48.0 x 22.0	R48	WG12	WR187	RG-49/U	C	K	G	C	C	C(6cm)	C
4.9 - 7.05	1.59 x 0.795	40.0 x 20.0	R58	WG13	WR159				C			C	
5.85- 8.2	1.372x 0.622	35.0 x 16.0	R70	WG14	WR137	RG-50/U		J	J	X <sub>B</sub>	X <sub>N</sub>	J(4.5cm)	
7.05- 10.0	1.122x 0.497	29.0 x 13.0	R84	WG15	WR112	RG-51/U		H	H	X <sub>L</sub>	X <sub>B</sub>	H(3.5cm)	X <sub>L</sub>
8.2 - 12.4	0.9 x 0.4	23.0 x 10.0	R100	WG16	WR90	RG-52/U	X	G	X	X	X	X(3cm)	X
10.0 - 15.0	0.75 x 0.375	19.0 x 9.5	R120	WG17	WR75			FA	M				
12.4 - 18.0	0.622x 0.311	16.0 x 7.9	R140	WG18	WR62	RG-91/U	J	F	P	K <sub>u</sub>	K <sub>U</sub>	P(2cm)	K <sub>u</sub>
15.0 - 22.0	0.510 x 0.255	13.0 x 5.8	R180	WG19	WR51				N	K			
18.0 - 26.5	0.420x 0.170	11.0 x 4.3	R220	WG20	WR42	RG-53/U		E	K		K		K
22.0 - 33.0	0.340 x 0.170	8.6 x 4.3	R260	WG21	WR34								
26.5 - 40.0	0.280 x 0.140	7.1 x 3.6	R320	WG22	WR28	RG-96/U	Q	D	R		V	Q(8mm)	A
33.0 - 50.0	0.224 x 0.112	5.7 x 2.9	R400	WG23	WR22	RG-97/U		C			Q		B
40.0 - 60.0	0.188 x 0.094	4.8 x 2.4	R500	WG24	WR19								U
50.0 - 75.0	0.148 x 0.074	3.8 x 1.9	R620	WG25	WR15	RG-98/U		B			M		V
60.0 - 90.0	0.122 x 0.061	3.1 x 1.6	R740	WG26	WR12	RG-99/U	O	A			E	E(4mm)	E
75.0 - 110.0	0.100 x 0.050	2.4 x 1.3	R900	WG27	WR10								W
90.0 - 140.0	0.080 x 0.040	2.0 x 1.0	R1200	WG28	WR8	RG-138/U		W			N		F
110.0 - 170.0	0.065x 0.0325	1.7 x 0.82		WG29	WR7	RG-136/U						B(2mm)	D
140.0 - 220.0	0.051x 0.0255	1.3 x 0.65		WG30	WR5	RG-135/U					A		G
170.0 - 260.0	0.043x 0.0215	1.1 x 0.55		WG31	WR4	RG-137/U							H
220.0 - 325.0	0.034 x 0.017	0.87 x 0.44		WG32	WR3	RG-139/U					R		J