

PRECISION

MILLIMETER WAVE

Waveguide Frequency Bands with Interior Dimensions

Frequency Band	Waveguide Standard	Frequency Range (GHz)	Inside Dimensions (inches)	Inside Dimensions (mm)	Flange Designation
R Band	WR - 770	0.96 to 1.5	7.700 x 3.385	195.58 x 97.79	
	WR - 650	1.12 to 1.70	6.500 x 3.250	165.1 x 82.55	
	WR - 430	1.70 to 2.60	4.300 x 2.150	109.22 x 54.61	
D Band	WR - 340	2.20 to 3.30	3.400 x 1.700	86.36 x 43.18	
S Band	WR - 284	2.60 to 3.95	2.840 x 1.340	72.136 x 34.036	
	WR - 229	3.30 to 4.90	2.290 x 1.150	58.166 x 29.21	
G Band	WR - 187	3.95 to 5.85	1.872 x 0.872	47.5488 x 22.1488	
F Band	WR - 159	4.90 to 7.05	1.590 x 0.795	40.386 x 20.193	
C band	WR - 137	5.85 to 8.20	1.372 x 0.622	34.8488 x 15.7988	
H band	WR - 112	7.05 to 10.00	1.122 x 0.497	28.4988 x 12.6238	
	WR - 102	7.05 to 11.00	1.020 x 0.510	25.908 x 12.954	
X Band	WR - 90	8.2 to 12.4	0.900 x 0.400	22.86 x 10.16	
Xs Band	WR - 75	10.0 to 15.0	0.750 x 0.375	19.05 x 9.525	
Ku Band	WR - 62	12.4 to 18.0	0.622 x 0.311	15.7988 x 7.8994	
K Band	WR - 51	15.0 to 22.0	0.510 x 0.255	12.954 x 6.477	
	WR - 42	18.0 to 26.5	0.420 x 0.170	10.668 x 4.318	
	WR - 34	22.0 to 33.0	0.340 x 0.170	8.636 x 4.318	
Ka Band	WR - 28	26.5 to 40.0	0.280 x 0.140	7.112 x 3.556	UG-599/U
Q Band	WR - 22	33.0 to 50.0	0.224 x 0.112	5.6896 x 2.8448	G-383/U
U Band	WR - 19	40.0 to 60.0	0.188 x 0.094	4.7752 x 2.3876	UG-383/UM
V Band	WR - 15	50.0 to 75.0	0.148 x 0.074	3.7592 x 1.8796	UG-385/U
E Band	WR - 12	60.0 to 90.0	0.122 x 0.061	3.0988 x 1.5494	UG-387/U
W Band	WR - 10	75.0 to 110.0	0.100 x 0.050	2.54 x 1.27	UG-387/UM
F Band	WR - 8	90.0 to 140.0	0.080 x 0.040	2.032 x 1.016	UG-387/UM
D Band	WR - 6	110.0 to 170.0	0.0650 x 0.0325	1.651 x 0.8255	UG-387/UM
G Band	WR - 5	140.0 to 220.0	0.0510 x 0.0255	1.2954 x 0.6477	UG-387/UM
H Band	WR - 4	170.0 to 260.0	0.0430 x 0.0215	1.0922 x 0.5461	UG-387/UM
J Band	WR - 3	220.0 to 325.0	0.0340 x 0.0170	0.8636 x 0.4318	UG-387/UM
Y Band	WR - 2.8	325.0 to 500.0	0.0279 x 0.0140	0.711 x 0.356	UG-387/UM
	WR - 2.2	325.0 to 500.0	0.0220 x 0.0109	0.559 x 0.279	UG-387/UM
	WR - 1.5	500.0 to 750.0	0.0150 x 0.0075	0.381 x 0.191	UG-387/UM
	WR - 1.2	600.0 to 900.0	0.0120 x 0.0059	0.305 x 0.152	UG-387/UM
	WR - 1.0	750.0 to 1100.0	0.0100 x 0.0050	0.254 x 0.127	
	WR - 0.8	900.0 to 1400.0	0.0079 x 0.0040	0.203 x 0.102	
	WR - 0.65	1100.0 to 1700.0	0.0064 x 0.0032	0.165 x 0.083	
	WR - 0.51	1400.0 to 2200.0	0.0051 x 0.0025	0.130 x 0.065	

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Manufacturing the highest quality active & passive components



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