

Reference

Designation		Recommended Operating Frequency Range For TE ₀₁ Mode		Cut Off For TE ₀₁ Mode		Power Rating (megawatts) (see note 1)	Theoretical Attenuation Lowest to Highest Frequency (dB/100ft.)	JAN WG RG	Material Alloy	JAN FLANGE		Dimensions (inches)				Wall Thickness (nom.)		
IEC R	EIA WR	IEC (GHz)	EIA (GHz)	Frequency (GHz)	Wavelength (cm)					Choke UG/U	Cover UG/U	EIA WG WR	Inside	Tol. (±)	Outside		Tol. (±)	
	3	2300	0.32-0.49	0.32-0.49	0.256	116.84	246-348	.040-.027	290	Alum.			2300	23.000-11.500	0.020	23.376-11.876	.020	0.188
	4	2100	0.35-0.53	0.35-0.53	0.281	106.68	205-290	.046-.031	291	Alum.			2100	21.000-10.500	0.020	21.376-10.876	.020	0.188
	5	1800	0.41-0.62	0.41-0.62	0.328	91.44	150-213	.058-.039	201	Alum.			1800	18.000-9.000	0.020	18.250-9.250	.020	0.125
	6	1500	0.49-0.75	0.49-0.75	0.393	76.20	104-148	.076-.051	202	Alum.			1500	15.000-7.500	0.015	15.350-7.750	.015	0.125
	8	1150	0.64-0.98	0.64-0.96	0.513	58.40	61.5-87.1	.113-.076	203	Alum.			1150	11.500-5.750	0.015	11.750-6.000	.015	0.125
	9	975	0.76-1.15	0.75-1.12	0.605	49.53	44.2-62.6	.145-.098	204	Alum.			975	9.750-4.875	0.010	10.000-5.125	.010	0.125
	12	770	0.96-1.46	0.96-1.45	0.766	39.12	27.6-39.1	.206-.140	205	Alum.			770	7.700-3.850	0.010	7.950-4.100	.010	0.125
L	14	650	1.14-1.73	1.12-1.70	0.908	33.02	19.6-27.8	.317-.214 .266-.180	69 103	Brass Alum.	417A* 417B*	650	6.500-3.250	0.010	6.660-3.410	.010	0.080	
	18	510	1.45-2.20	1.45-2.20	1.157	25.91	12.09-17.1	.456-.309 .382-.259	337 338	Brass Alum.		510	5.100-2.550	0.010	5.260-2.710	.010	0.080	
W	22	430	1.72-2.61	1.70-2.60	1.372	21.84	8.6-12.2	.588-.399 .494-.334	104 105	Brass Alum.	435A* 437A*	430	4.300-2.150	0.008	4.460-2.310	.008	0.080	
	26	340	2.17-3.30	2.20-3.30	1.736	17.27	5.4-7.6	.837-.567 .702-.475	112 113	Brass Alum.	553* 554*	340	3.400-1.700	0.005	3.560-1.860	.005	0.080	
S	32	284	2.60-3.95	2.60-3.95	2.078	14.43	3.5-5.0	1.136-.777 .953-.652	48 75	Brass Alum.	54B 585A 53 584	284	2.840-1.340	0.005	3.000-1.500	.005	0.080	
	40	229	3.22-4.90	3.30-4.90	2.577	11.63	2.44-3.46	1.514-1.026 1.270-.860	340 341	Brass Alum.		229	2.290-1.145	0.005	2.418-1.273	.005	0.064	
C	48	187	3.94-5.99	3.95-5.85	3.152	9.510	1.52-2.15	2.140-1.467 1.795-1.231	49 95	Brass Alum.	148C 149A 406D 407	187	1.872-0.872	0.005	2.000-1.000	.005	0.064	
	58	159	4.64-7.05	4.90-7.05	3.711	8.078	1.17-1.66	2.617-1.773 2.195-1.487	343 344	Brass Alum.		159	1.590-0.795	0.004	1.718-0.923	.004	0.064	
	70	137	5.38-8.17	5.85-8.20	4.301	6.970	0.79-1.12	3.470-2.390 2.910-2.004	50 106	Brass Alum.	343B 344 440B 441	137	1.372-0.622	0.04	1.500-0.750	.004	0.064	
X _L	84	112	6.58-10.00	7.05-10.00	5.259	5.700	0.52-0.73	4.761-3.292 3.993-2.761	51 68	Brass Alum.	52B 51 137B 138	112	1.122-0.497	0.004	1.250-0.625	.004	0.064	
	102	(7.23)-(11.0)	7.00-11.0	5.785	5.182	0.48-0.68	5.093-3.450 4.272-2.894	320	Brass Alum.	149A 1493	102	1.020-0.510	0.003	1.148-0.638	.003	0.064		
X _S	100	90	8.20-12.5	8.20-12.40	6.557	4.572	0.33-0.47	6.614-4.570 5.547-3.833	52 67	Brass Alum.	40B 136B 39 135	90	0.900-0.400	0.003	1.000-0.500	0.003	0.050	
	120	75	9.84-15.0	10.00-15.00	7.868	3.810	0.26-0.34	8.078-5.472 6.775-4.590	346 347	Brass Alum.		75	0.750-0.375	0.003	0.850-0.475	0.003	0.050	
K _J	140	62	11.9-18.0	12.4-18.0	9.486	3.160	0.18-0.25	10.696-7.246 8.971-6.077 6.762-4.581	91 349 107	Brass Alum. Silver	541A 419	62	0.622-0.311	0.002	0.702-0.391	0.003	0.040	
	180	51	14.5-22.0	15.0-22.0	11.574	2.590	0.12-0.17	14.406-9.759 12.082-8.185	352 351	Brass Alum.		51	0.510-0.255	0.0025	0.590-0.335	0.003	0.040	
K	220	42	17.6-26.7	18.0-26.5	14.047	2.137	0.066-0.094	22.042-15.464 18.487-12.970 13.936-9.778	53 121 66	Brass Alum. Silver	596A 595 598A 597	42	0.420-0.170	0.0020	0.500-0.250	0.003	0.040	
	260	34	21.7-33.0	22.0-33.0	17.328	1.730	0.053-0.076	26.465-17.928 22.197-15.036	354 355	Brass Alum.		34	0.340-0.170	0.0020	0.420-0.250	0.003	0.040	
K _A	320	28	26.4-40.1	26.5-40.0	21.08	1.422	0.036-0.051	35.413-23.989 29.701-20.120 22.391-15.168	271 96	Brass Alum. Silver	600A 599	28	0.280-0.140	0.0015	0.360-0.220	0.220	0.040	
Q	400	22	33.0-50.1	33.0-50.0	26.34	1.138	0.023-0.033	49.491-33.526 41.508-28.119 31.292-21.198	272 97	Brass Alum. Silver	383	22	0.224-0.112	0.0010	0.304-0.192	0.002	0.040	
	500	19	39.3-59.7	40.0-60.0	31.36	0.956	0.016-0.023	64.367-43.603 40.697-27.569	358	Brass Silver	1529*	19	0.188-0.094	0.0010	0.268-0.174	0.002	0.040	
V	620	15	49.9-75.8	50.0-75.0	39.86	0.752	0.010-0.144	92.152-62.425 58.265-39.470	273 98	Brass Silver	385	15	0.148-0.074	0.0010	0.228-0.154	0.002	0.040	
	740	12	60.5-92.0	60.0-90.0	48.35	0.620	0.0069-0.0098	123.128-83.409 77.85-52.737	274 99	Brass Silver	387	12	0.122-0.061	0.0005	0.202-0.141	0.002	0.040	
	900	10	73.8-112	75-110.0	59.01	0.508	0.0046-0.0066	165.920-112.397 104.906-71.065	359	Brass Silver	1528*	10	0.100-0.050	0.0005	0.180-0.130	0.002	0.040	
	1200	8	92.3-140	90.0-140.0	73.6	0.406	0.0030-0.0042	146.611-99.317	278	Silver	1527*	8	0.0800-0.0400	0.0003	0.120-0.080	0.001	0.020	
	1400	7	113-173	110.0-170.0	90.9	0.330	0.0019-0.0028	200.185-135.609	276	Silver	1525*	7	0.0650-0.0325	0.00025	0.105-0.073	0.001	0.020	
	1800	5	145-220	140.00-220.0	115.7	0.259	0.0012-0.0017	288.036-195.120	275	Silver	1524*	5	0.0510-0.0255	0.00025	0.091-0.066	0.001	0.020	
	2200	4	172-261	170.0-260.0	137.3	0.218	0.00086-0.00122	372.048-252.032	277	Silver	1526*	4	0.0430-0.0215	0.00020	0.083-0.062	0.001	0.020	
	2600	3	220-335	220.0-325.0	176.2	0.170	0.00054-0.00076	529.155-358.459		Silver		3	0.0340-0.0170	0.00020	0.156 dia	0.001		

Notes: ¹ True theoretical values at 1 atmos. Dry air at 20°C, no safety factor included.
* Contact Flange