

**Standard Radar Frequency Letter-Band Nomenclature  
(IEEE 521-1984)**

Radar Letter Band	Frequency	Wavelength (in free space)	Applicable Waveguide Designation			Waveguide Operational Frequency Range	Flex Twist Waveguide Availability
	GHz	cm	WG	WR	R	GHz	
L	1.0 - 2.0	30 - 15	5	770	12	0.96 - 1.45	NO
			6	650	14	1.12 - 1.70	NO
			7	510	18	1.45 - 2.20	NO
			8	430	22	1.70 - 2.60	NO
S	2.0 - 4.0	15 - 7.5	7	510	18	1.45 - 2.20	NO
			8	430	22	1.70 - 2.60	NO
			9A	340	26	2.20 - 3.30	NO
			10	284	32	2.60 - 3.95	YES
			11A	229	40	3.30 - 4.90	YES
			12	187	48	3.95 - 5.85	YES
C	4.0 - 8.0	7.5 - 3.8	13	159	58	4.90 - 7.05	YES
			14	137	70	5.85 - 8.20	YES
			15	112	84	7.05 - 10.00	YES
			11A	229	40	3.30 - 4.90	YES
			12	187	48	3.95 - 5.85	YES
X	8.0 - 12.0	3.8 - 2.5	13	159	58	4.90 - 7.05	YES
			14	137	70	5.85 - 8.20	YES
			15	112	84	7.05 - 10.00	YES
			16	90	100	8.20 - 12.40	YES
Ku	12.0 - 18.0	2.5 - 1.7	17	75	120	10.00 - 15.00	YES
			16	90	100	8.20 - 12.40	YES
			17	75	120	10.00 - 15.00	YES
			18	62	140	12.40 - 18.00	YES
			19	51	180	15.00 - 22.00	YES
K	18.0 - 27.0	1.7 - 1.1	20	42	220	17.70 - 26.50	YES
			19	51	180	15.00 - 22.00	YES
			21	34	260	22.00 - 33.00	YES
			22	28	320	26.50 - 40.00	YES
Ka	27.0 - 40.0	1.1 - 0.75	21	34	260	22.00 - 33.00	YES
			22	28	320	26.50 - 40.00	YES
			23	22	400	33.00 - 50.00	YES
V	40.0 - 75.0	0.75 - 0.40	23	22	400	33.00 - 50.00	YES
			24	19	500	40.00 - 60.00	SPECIAL
			25	15	620	50.00 - 75.00	SPECIAL
			26	12	740	60.00 - 90.00	NO
W	75.0 - 110.0	0.40 - 0.27	26	12	740	60.00 - 90.00	NO
			27	10	900	75.00 - 110.00	NO
			28	8	1200	90.00 - 140.00	NO