

RF, Microwave and Millimeter Wave Frequency Bands

Frequency Band Letter Designation	Frequency Range	Wavelength
L band	1 - 2 GHz	15cm - 30cm
S band	2 - 4 GHz	7.5cm - 15cm
C band	4 - 8 GHz	3.75cm - 7.5cm
X band	8 - 12 GHz	25mm - 37.5cm
Ku band	12 - 18 GHz	16.7mm - 25mm
K band	18 - 26.5 GHz	11.3mm - 16.7mm
Ka band	26.5 - 40 GHz	7.5mm - 11.3mm
Q band	33 - 50 GHz	6.0mm - 9.0mm
U band	40 - 60 GHz	5.0mm - 7.5mm
V band	50 - 75 GHz	4.0mm - 6.0mm
W band	75 - 110 GHz	2.7mm - 4.0mm
F band	90 - 110 GHz	2.7mm - 3.3mm
D band	110 - 170 GHz	1.8mm - 2.7mm