

# SPECTRUM CHART

## Radio Frequency Bandwidth

The Allocated Radio Spectrum is located between 9 KHz and 300 GHz

BANDwidth DESCRIPTION	FREQUENCY RANGE
Extremely Low Frequency (ELF)	0 to 3 KHz
Very Low Frequency (VLF)	3 KHz to 30 KHz
Radio Navigation & maritime/aeronautical mobile	9 KHz to 540 KHz
Low Frequency (LF)	30 KHz to 300 KHz
Medium Frequency (MF)	300 KHz to 3000 KHz
AM Radio Broadcast	540 KHz to 1630 KHz
Travellers Information Service	1610 KHz
High Frequency (HF)	3 MHz to 30 MHz
Shortwave Broadcast Radio	5.95 MHz to 26.1 MHz
Very High Frequency (VHF)	30 MHz to 300 MHz
Low Band: TV Band 1 - Channels 2-6	54 MHz to 88 MHz
Mid Band: FM Radio Broadcast	88 MHz to 174 MHz
High Band: TV Band 2 - Channels 7-13	174 MHz to 216 MHz
Super Band (mobile/fixed radio & TV)	216 MHz to 600 MHz
Ultra-High Frequency (UHF)	300 MHz to 3000 MHz
Channels 14-70	470 MHz to 806 MHz

L-band:	500 MHz to 1500 MHz
Personal Communications Services (PCS)	1850 MHz to 1990 MHz
Unlicensed PCS Devices	1910 MHz to 1930 MHz
Superhigh Frequencies (SHF) (Microwave)	3 GHz to 30.0 GHz
C-band	3600 MHz to 7025 MHz
X-band:	7.25 GHz to 8.4 GHz
Ku-band	10.7 GHz to 14.5 GHz
Ka-band	17.3 GHz to 31.0 GHz
Extremely High Frequencies (EHF) (Millimeter Wave Signals)	30.0 GHz to 300 GHz
Additional Fixed Satellite	38.6 GHz to 275 GHz
Infrared Radiation	300 GHz to 430 THz
Visible Light	430 THz to 750 THz
Ultraviolet Radiation	1.62 PHz to 30 PHz
X-Rays	30 PHz to 30 EHz
Gamma Rays	30 EHz to 3000 EHz
P-Band	225 MHz to 390 MHz
L-Band	390 Mhz to 1.55 GHz
S-Band	1.55 GHz to 5.2 GHz
X-Band	5.2 GHz to 10.9 GHz
K-Band	10.9 GHz to 36 GHz
Q-Band	36 GHz to 46 GHz
V-Band	46 GHz to 56 GHz
W-Band	56 GHz to 100 GHz