

Electro Magnetic Spectrum

Band	VLF	LF	MF	HF	VHF	UHF	SHF	EHF	Infrared visible light spectrum
Acro. Def	Very Low Frequency	Low Frequency	Medium Frequency	High Frequency	Very High Frequency	Ultra High Frequency	Super High Frequency	Extremly High Frequency	
Freq. Range	< 30 kHz	30 kHz - 300 kHz	300 kHz - 3 MHz	3 MHz - 30 MHz	30 MHz - 300 MHz	300 MHz - 3 GHz	3 GHz - 30 GHz	30 GHz - 300 GHz	
Name in Wavelength	myriametre band	kilometer band	hectometer band	decameter band	meter band	decimeter band	centimeter band	milimeter band	
Wave Length	> 10,000 m	1,000 -10,000 m	1,000 - 100 m	100 - 10 m	10 - 1 m	1 - 0.1 m	0.1 - 0.01 m	0.01 - 0.001 m	
Useage			AM broadcast		Television, FM Broadcasting, amateur radio	Cellular Communication			
Characteristics		Penetrates Ocean water upto 200m depth							

Microwave Bands														
Name of Band	L	S	C	X	Ku	K	Ka	Q	U	V	E	W	F	D
Frequency	1 - 2 GHz	2 - 4 GHz	4 - 8 GHz	8 - 12 GHz	12 - 18 GHz	18 - 26.5 GHz	26.5 - 40 GHz	30 - 50 GHz	40 - 60 GHz	50 - 75 GHz	60 - 90 GHz	75 - 110 GHz	90 - 140 GHz	110 - 170 GHz