Electromagnetic spectrum

Microwaves occupy a place in the electromagnetic spectrum between ordinary radio waves and infrared light:

Electromagnetic spectrum				
Name	**Wavelength**	**Frequency (Hz)**	**Photon energy (eV)**	**Range width (Bel)**
Gamma ray	< 0.02 nm	> 15 EHz	> 62.1 keV	infinite
X-ray	0.01 nm – 10 nm	30 EHz – 30 PHz	124 keV – 124 eV	3
Ultraviolet	10 nm – 400 nm	30 PHz – 750 THz	124 eV – 3 eV	1.6
Visible light	390 nm – 750 nm	770 THz – 400 THz	3.2 eV – 1.7 eV	0.3
Infrared	750 nm – 1 mm	400 THz – 300 GHz	1.7 eV – 1.24 meV	3.1
Microwave	1 mm – 1 m	300 GHz – 300 MHz	1.24 meV – 1.24 *μ*eV	3
Radio	1 mm – 100 km	300 GHz – 3 kHz	1.24 *μ*eV – 12.4 feV	8