



Monday, 9th July 2007

BAND05–A2 Bandspeed Inc – Wireless Access Point

Maximum Permissible Exposure Calculation

FCC, Part 15 Subpart C §15.247(i)
Industry Canada RSS-Gen §5.5

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm²) = EIRP/(4πd²)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = 10 ^ (G (dBi)/10)

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm²

Freq. Band (GHz)	Antenna Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm ² Limit (cm)
2.4b	1.52	1.42	+19.60	91.2	3.3
2.4g	1.52	1.42	+26.12	409.3	6.8
5.8	5.0	3.17	+26.07	404.6	10.1