

Maximum Permissible Exposure

FCC ID: BEJWN8122E

Product Name: Wi-Fi module

Model No: WN8122E

Futaba Corporation declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation. Based on safety distance 20cm,

For 2.4GHz band, RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = Power Density in mW/cm²

P = 19.38dBm = 86.696mW

G = -0.68dBi = 0.85 Numerical

r = 20cm

$$S = 86.696 * 0.85 / 4 * \pi * 20^2 = 0.0146 \text{mW/cm}^2$$

For 5.2GHz band, RF Exposure Calculations:

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = Power Density in mW/cm²

P = 15.44dBm = 34.99mW

G = 0.62dBi = 1.15 Numerical

r = 20cm

$$S = 34.99 * 1.15 / 4 * \pi * 20^2 = 0.008 \text{mW/cm}^2$$

For 5.8GHz band, RF Exposure Calculations:

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = Power Density in mW/cm²

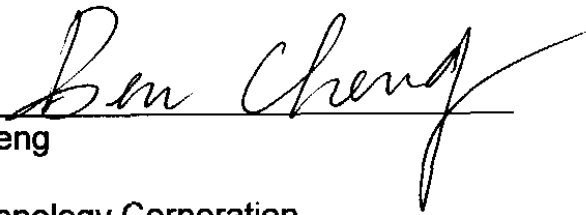
P = 19.76dBm = 94.62mW

G = 0.52dBi = 1.127 Numerical

r = 20cm

$$S = 94.62 * 1.127 / 4 * \pi * 20^2 = 0.0212 \text{mW/cm}^2$$

Sincerely Yours,



Mr. Ben Cheng
Manager
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