



May 2, 2017

Murata Manufacturing Co., Ltd. declares that Model: Type1LD complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "Type1LD" as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1mW/cm² uncontrolled exposure limit.

The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

P(1 = 57.81 mW (WLAN maximum average output power)

P(2 = 6.71 mW (BT LE maximum average output power)

P(3 = 7.59 mW (BT maximum average output power)

G = 1 Numerical Antenna gain; equal to 0 dBi

r = 20 cm (Separation distance)

Power Density Result S(1 = 0.01150 mW/cm² (WLAN)

Power Density Result S(2 = 0.00134 mW/cm² (BT LE)

Power Density Result S(3 = 0.00151 mW/cm² (BT)

Even taking into account the tolerance, this device can be satisfied with the limits.

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