

RF Exposure / MPE Calculation

No. : 32IE0103-HO-01

Applicant : Orion Electric Co., Ltd.
Type of Equipment : BLUETOOTH MODULE
Model No. : OBT-01
FCC ID : A7RM115A
IC Number : 10291A-M115A

Orion Electric Co., Ltd. declares that Model : OBT-01
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "OBT-01" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 1.54 mW (Maximum peak output power)
G = 0.50 Numerical Antenna gain; equal to -3.00 dBi
r = 20.0 cm

For: OBT-01

$$S = 0.00015 \text{ mW/cm}^2$$

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