

RF Exposure Statement

No. : 23IE0101-HO-1

Applicant : DENSO WAVE INCORPORATED
Type of Equipment : Bluetooth Board
Model No. : DWBT001
FCC ID : PZWDWBT001

RF Exposure Statement:

DENSO WAVE INCORPORATED declares that Model : DWBT001 complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(2).

DWBT001 has 1.29 mW of conducted Peak output power and 2.06 mW of EIRP.

(Antenna gain : 2 dBi)

According to RF output power of this module transmitter, values for both Conducted peak output power and EIRP are below 5mW. This kind of equipment hardly ever go over SAR value limited of 1.6W/Kg for public resident which is regulated by "OET Bulletin65, Supplement C".

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "DWBT001" as calculated from FCC OET 65 Appendix B, 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:

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

Where **S = 1.00 mW/cm² for 2400 MHz**
P = 1.29 mW (Maximum Conducted Power)
G = 1.60 Numerical Antenna gain; equal to 2.04dBi
r = Minimum safe distance from antenna (cm)

For: DWBT001

r = 0.41 cm

Notes in Installation Manual:

FCC Radiated Exposure Statement:

This module may be installed into any end product both mobile and portable applications.

Because the module only radiates very low power levels, it complies with RF exposure requirements.

According to Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01 spread spectrum transmitters are categorically excluded from routine environmental evaluation because of the low power level, where there is a high likelihood of compliance with RF exposure standards.

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124