

RF Exposure Statement

No. : 22DE0036-YW

Applicant : DENSO WAVE INCORPORATED
Type of Equipment : BARCODE HANDY TERMINAL
Model No. : BHT-100BF and BHT-100QF
FCC ID : PZWBHT-100F

FCC RF Exposure Statement:

DENSO WAVE INCORPORATED : BHT-100BF and BHT-100QF complies with FCC radiation exposure requirement specified in the FCC Rules 15.247(b)(4).

Notice in Installation Manual

This device is approved for hand held use only and, to comply with applicable FCC radio frequency exposure regulations, must be used with a distance of at least 20cm(7.9inches) between the antenna and the body of any person at a all times during use.

This transmitter and its antenna should not be placed next to other antennas or similar radiating structures.

RF Exposure Calculations

The following information provides the minimum separation distance for the highest gain antenna provided with the BHT-100BF and BHT-100QF 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 1.0m W/cm² uncontrolled exposure limit. The Fires formula used was:

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

Where S = 1.0 mW/cm² for 2400 MHz

P = 114.8 mW (Maximum Conducted Power : BHT-100BF)

117.5mW (Maximum Conducted Power : BHT-100QF)

G = 1.0(Isotropic antenna gain : Converted absolute value)

r = Minimum safe distance from antenna (cm)

For: BHT-100BF r = 3.0 cm

For: BHT-100QF r = 3.1 cm

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