

RF Exposure / MPE Calculation

No. : 27DE0139-HO

Applicant : OMRON Corporation Okayama Factory
Type of Equipment : FA Wireless LAN Unit (IEEE802.11b/g (FCC15.247))
Model No. : WE70-AP
FCC ID : RXEWE70AP

OMRON Corporation Okayama Factory declares that Model : WE70-AP
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(for portable)/2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “WE70-AP” 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 = 133.97 mW (Maximum peak output power)
G = 2.19 Numerical Antenna gain; equal 3.40 dBi
r = 20.0 cm

For: WE70-AP

$$S = 0.05831 \text{ mW/cm}^2$$