

## **RF Exposure / MPE Calculation**

**No. : 27DE0139-HO**

**Applicant : OMRON Corporation Okayama Factory**  
**Type of Equipment : FA Wireless LAN Unit (IEEE802.11a 5725-5850MHz (FCC15.247))**  
**Model No. : WE70-AP**  
**FCC ID : RXEWE70AP**

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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/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

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

Where

$$\begin{aligned} P &= 119.67 \text{ mW (Maximum peak output power)} \\ G &= 2.19 \text{ Numerical Antenna gain; equal } 3.40 \text{ dBi} \\ r &= 20.0 \text{ cm} \end{aligned}$$

For: WE70-AP

$$S = 0.05209 \text{ mW/cm}^2$$