

RF Exposure / MPE Calculation

No. : 27DE0139-HO

Applicant : **OMRON Corporation Okayama factory**
Type of Equipment : **FA Wireless LAN Unit (IEEE802.11a 5470-5725MHz (FCC15.407))**
Model No. : **WE70-CL**
FCC ID : **RXEWE70CL**

OMRON Corporation Okayama factory declares that Model : WE70-CL 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-CL" 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 = 23.60 mW (Maximum peak output power)
G = 2.19 Numerical Antenna gain; equal 3.40 dBi *
r = 20.0 cm

For: WE70-CL **S = 0.01027 mW/cm²**

*** Antenna Gain 3.40 dBi**

= [Magnetic pedestal Antenna Gain 7dBi max(for 5GHz band)] - [Antenna cable loss 3.6dB min(for 5GHz band)]