

## RF Exposure / MPE Calculation

No. : 31DE0278-HO-01

Applicant : Roland Corporation  
Type of Equipment : Amplifier  
Model No. : BA-55  
FCC ID : SOP410511F  
IC Number : 9569A-410511F

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Roland Corporation declares that Model : BA-55  
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "BA-55" 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

P = 0.19 mW (Maximum peak output power)  
G = 3.55 Numerical Antenna gain; equal to 5.50 dBi  
r = 20.0 cm

For: BA-55

$$S = 0.00013 \text{ mW/cm}^2$$

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**UL Japan, Inc.**

**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