



## **RF Exposure / MPE Information**

Code Corporation 12393 South Gateway Park Place, Suite 600 Draper, UT 84020

## Product: CR2600/CR3600 Family

CRA-A104 02 and CRA-A126 01 Charger

## **Calculations:**

The limit for radio frequency exposure for an uncontrolled environment is 1mW/cm² for the frequencies used in this device. The worst-case antenna gain is used for the calculation below. The power density is calculated at 20 cm distance. Assume 100% duty cycle for this calculation.

Pd = (Pout \* G) /  $(4 * \pi * r^2)$  or Pd = EIRP /  $(4 * \pi * r^2)$ 

Where

Pd = power density in mW/cm<sup>2</sup> Pout = output power to antenna in mW G = gain of antenna in linear scale  $\pi$  = 3.1416

r = distance from transmitter in cm

Antenna type: Tyco 1513349-1 (Peak gain: 0 dBi)

Calculated peak output power from section 6.2.6 of FCC Part 15, Subpart C test report: 0.708mW

Using the equations above,

 $Pd = (0.708 \text{mW}) / (4 * 3.1416 * (20 \text{cm})^2) = 0.000141 \text{ mW/cm}^2 = 141 \mu \text{W/cm}^2$ 

## Result:

The calculated peak power density of 141µW/cm<sup>2</sup> is less than the 1mW/cm<sup>2</sup> limit and is, therefore, acceptable.

**Test Conditions:** 

Bluetooth Version: BT 2.0 + EDR

Modulation: 2Mbps & 3Mbps (adjustment via Firmware)

Hardware Version: CRA-A104\_02, CRA-A126\_01

Software Version: 1098