RF Exposure

The equipment under test (EUT) is a 22" Ferrari RC operating at 2.4G Band. The EUT can be powered by DC 6.4V (1 x 6.4V rechargeable battery). Once use the USB cable charging to the EUT, the wireless function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal peak radiated output power (e.i.r.p) is: 2.0dBm (tolerance: +/- 3dB). The normal peak conducted output power is 2.0dBm (tolerance: +/- 3dB). Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 99.7 dB μ V/m at 3m in the frequency 2475MHz The EIRP = [(FS*D) ^2 / 30] mW = 4.47dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $98.7dB\mu V/m$ at 3m in the frequency 2410MHz The EIRP = [(FS*D) ^2 / 30] mW = 3.47dBm which is within the production variation.

The maximum conducted output power specified is 5dBm= 3.162mW The source- based time-averaging conducted output power =3.162* Duty cycle mW <3.162 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.475) mW = 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 32.029ms Effective period of the cycle = 0.38406ms x 2 = 0.76812ms DC = 0.76812ms / 32.029ms = 0.0240 or 2.40%

FCC ID: PKG82133RCA