INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for 1:10 RC ROCKZILLA model: 81189/15004 operating at 2.4GHz band. It is powered by DC 3.0V (2 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -3.5dBm (tolerance: +/- 3dB).

The normal conducted output power is -3.5dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 92.2 dB μ V/m at 3m in the frequency 2450MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -3.03dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is 90.4dB μ V/m at 3m in the frequency 2410MHz and 2471MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -4.83dBm which is within the production variation.

The maximum conducted output power specified is -0.5dBm = 0.9mW The source- based time-averaging conducted output power = 0.9* Duty Cycle mW < 0.9 mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.471) mW
- $= 9.5 \, \text{mW}$

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.

FCC ID: PKG15004RC