INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Car unit for 1:14 RC Formula Hobby Grade version(2.4G) model: 81260(14023/81262) operating at 2.4GHz band. It is powered by DC 6.4V (1 x 6.4V rechargeable battery). 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: 0.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 0.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 95.3dBµV/m at 3m in the frequency 2471MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 0.07dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $94.3 dB\mu V/m$ at 3m in the frequency 2450 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -0.93dBm which is within the production variation.

The maximum conducted output power specified is 3.0dBm = 2.0mW
The source- based time-averaging conducted output power
= 2.0 * Duty Cycle mW < 2.0 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: PKG81260RCA