INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Car unit for 1:14 RC Formula Hobby Grade Version Model: 81260 (81262/15004)operating at 2.4GHz band. It is powered by DC 3.2V (1 x 3.2V 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: -3.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -3.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 93.5dBµV/m at 3m in the frequency 2450MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -1.73dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $91.7 dB\mu V/m$ at 3m in the frequency 2410 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -3.53dBm which is within the production variation.

The maximum conducted output power specified is 0dBm = 1.0mW
The source- based time-averaging conducted output power
= 1.0 * Duty Cycle mW < 1 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.

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

The duration of one cycle = 1.2029ms

Effective period of the cycle = 318.8us

DC = 318.8us / 1.2029ms = 0.265 or 26.5%

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