INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for Remote Control RC Quadcopter model: LH-X2 operating at 2.4GHz band. It is powered by six 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: -14.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -14.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $81.5 dB\mu V/m$ at 3m in the frequency 2434 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -13.7dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $80.0 dB\mu V/m$ at 3m in the frequency 2402 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -15.2dBm which is within the production variation.

The maximum conducted output power specified is -11dBm = 0.079mW
The source- based time-averaging conducted output power
= 0.079* Duty Cycle mW < 0.1mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.454) mW
- = 9.6 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= 7.7101ms Effective period of the cycle = 173.9us x 1 = 0.1739ms DC = 0.1739ms / 7.7101ms = 0.0226 or 2.26%

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