INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a control unit for the 2.4G 4.5CH R/C MINI DRONE W/GYROCOPE operating at 2.4GHz band. It is powered by DC 3.0V (2 x 1.5V AAA 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: -8.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -8.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 87.0dBµV/m at 3m in the frequency 2480MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -8.23dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $84.7 dB\mu V/m$ at 3m in the frequency 2441 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -10.53dBm which is within the production variation.

The maximum conducted output power specified is -5.0dBm = 0.3mW The source- based time-averaging conducted output power = 0.3* Duty cycle mW <0.3 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.480) 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 = 50.435ms

Effective period of the cycle = 2.899ms x 2=5.798ms

DC = 5.798 ms / 50.435 ms = 0.1150 or 11.50%

FCC ID: 2AK3Z20065A