INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for DRONE DX 2INCH NANO model: DGUN-2927 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: 0dBm (tolerance: +/- 3dB).

The normal conducted output power is: 0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 96.4dBµV/m at 3m in the frequency 2475MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 1.17dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $93.9 dB\mu V/m$ at 3m in the frequency 2450 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -1.33dBm which is within the production variation.

The maximum conducted output power specified is 3dBm = 2.0mW The source- based time-averaging conducted output power = 2.0* Duty Cycle mW < 2.0mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.475) 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 duration of one cycle = 3.0435ms Effective period of the cycle = 1.2174ms DC = 1.2174ms/3.0435ms = 0.4 or 40.0%

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