

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a controller unit for the DRONE LUNAR 5INCH STUNT model: DRO 002 operating at 2.4GHz band. It is powered by DC 9.0V (6 x 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: -13dBm (tolerance: +/- 3dB).

The normal conducted output power is: -13dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 82.6dB μ V/m at 3m in the frequency 2410MHz

The EIRP = [(FS*D) ^2 / 30] mW = -12.63dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 80.7dB μ V/m at 3m in the frequency 2475MHz

The EIRP = [(FS*D) ^2 / 30] mW = -14.53dBm
which is within the production variation.

The maximum conducted output power specified is -10dBm = 0.1mW

The source- based time-averaging conducted output power
= 0.1 * 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 (2.475) mW

= 9.53mW

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 = 5.9710ms

Effective period of the cycle = 434.8us = 0.4348ms

DC = 0.4348ms/5.9710ms = 0.0728 or 7.28%

FCC ID: Z6QFX157TXW