

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a receiver unit for the DRONE DX 14.4INCH WITH CAMERA operating at 2.4GHz band. It is powered by DC 3.7V (1 x 3.7V 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: -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 2440MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -8.23dBm

which is within the production variation.

The maximum conducted output power specified is -5dBm = 0.3mW

The source- based time-averaging conducted output power
= $0.3 \cdot \text{Duty cycle}$ mW < 0.3 mW (Duty cycle < 100%)

The SAR Exclusion Threshold Level:

= $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

= $3.0 \cdot 5 / \sqrt{2.440}$ mW

= 9.60 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 = 2.6522 ms

Effective period of the cycle = 347.8 μs = 0.3478ms

DC = 0.3478 ms / 2.6522 ms = 0.1311 or 13.11%

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