

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Drone Aero Stunt LED operating at 2.4G Band. The EUT can be powered by DC 6.0V (4 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 0dBi

The nominal conducted output power specified: 3.0 dBm (± 3 dB)

The nominal radiated output power (e.i.r.p) specified: 3.0 dBm (± 3 dB)

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 99.6 dB μ V/m at 3m in the frequency 2410MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 4.37dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 99.3 dB μ V/m at 3m in the frequency 2472MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 4.07dBm

which is within the production variation.

The maximum conducted output power specified is 6.0dBm= 3.981mW

The source- based time-averaging conducted output power = 3.981 mW

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \text{sqrt}(2.480)$ 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.