

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a DMX racer operating at 2.4G Band. The EUT can be 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: 5.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 5.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06

The Maximum peak radiated emission for the EUT is 103.0dB μ V/m at 3m in the frequency 2423MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = 7.77dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 99.1.dB μ V/m at 3m in the frequency 2463MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = 3.87dBm
which is within the production variation.

The maximum conducted output power specified is 8dBm= 6.310mW

The source- based time-averaging conducted output power
=6.310mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.463) mW
= 9.56 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.

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