INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a R/C Car operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 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: -3.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -3.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 92.0dBµV/m at 3m in the frequency 2420MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -3.23dBm which is within the production variation.

The Minimum meals and interdential contents for the FLIT in 1990 of

The Minimum peak radiated emission for the EUT is 90.6dBµV/m at 3m in the frequency 2445MHz

The EIRP = $[(FS*D)^2 / 30]$ mW = -4.63dBm which is within the production variation.

The maximum conducted output power specified is 0dBm= 1.000mW
The source- based time-averaging conducted output power
=1.000* Duty cycle mW <1.000 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.460) mW

 $= 9.56 \, \text{mW}$

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 = 2.0000ms Effective period of the cycle = 1.0145ms

DC =1.0145ms / 2.0000ms =0.5073 or 50.73%

FCC ID: BY34204-24B2