INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for Extreme Beast model: 81128(13085/81128) operating at 2.4GHz band. It is 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: 2.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 2.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $97.9 dB\mu V/m$ at 3m in the frequency 2413 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 2.67dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $94.5 dB\mu V/m$ at 3m in the frequency 2445 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -0.73dBm which is within the production variation.

The maximum conducted output power specified is 5.0dBm = 3.2mW
The source- based time-averaging conducted output power
= 3.2* Duty cycle mW = 0.207792 mW

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.473) mW
- = 9.54 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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The duty cycle is simply the on-time divided by the period: The duration of one cycle = 4.928msEffective period of the cycle = $320us \times 1 = 0.32ms$ DC = 320us / 4.928ms = 0.064935 or 0.064935%

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