

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a controller unit for the PS3 OPP WIRELESS CONTROLLER model: 1427441-01 operating at 2.4GHz band. It is powered by DC 4.5V (3 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: -14.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -14.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 80.5dB μ V/m at 3m in the frequency 2412MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -14.73dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 78.3dB μ V/m at 3m in the frequency 2444MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -16.93dBm

which is within the production variation.

The maximum conducted output power specified is -11.0dBm = 0.08mW

The source- based time-averaging conducted output power

= $0.08 \cdot \text{Duty cycle}$ mW < 0.08 mW (Duty cycle < 100%)

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \sqrt{2.475}$ 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 7.5362ms

Effective period of the cycle = 1.3043ms x 1 = 1.3043ms

DC = 1.3043ms / 7.5362ms = 0.1731 or 17.31%

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