

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an **Error! Reference source not found.** operating at 2.4G Band. The EUT can be powered by DC 9.0V (6 x 1.5V AA batteries) or DC 6.4V (1 x 6.4V rechargeable battery). And the RF function will be shut down and it can't transmit RF signals while charging. For more details information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -1.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -1.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 94.4dB μ V/m at 3m in the frequency 2420MHz

The EIRP = [(FS*D) ^2 / 30] mW = -0.83dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 93.2dB μ V/m at 3m in the frequency 2440MHz

The EIRP = [(FS*D) ^2 / 30] mW = -2.03dBm

which is within the production variation.

The maximum conducted output power specified is 2.0dBm= 1.585mW

The source- based time-averaging conducted output power =1.585mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.462) 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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