

INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is a Wireless touch Keyboard which has Bluetooth and 2.4G SRD function operating at 2402-2480MHz while Bluetooth and 2.4G SRD can't be used at the same time. The EUT can be powered by DC 3.0V by AAA battery. For more detailed features description, please refer to the user's manual.

Bluetooth Version: 5.0 BLE

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

Modulation Type: GFSK

The nominal conducted output power specified: 0dBm (+/-3dB).

The maximum conducted output power for the EUT is -2.80dBm in the frequency 2480MHz which is within the production variation.

The minimum conducted output power for the EUT is -2.94dBm in the frequency 2440MHz which is within the production variation.

The maximum conducted output power specified is 3dBm = 2mW

The source- based time-averaging conducted output power

= 2 * Duty factor mW (where Duty Factor ≤ 1)

= 2 mW

The SAR Exclusion Threshold Level:

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

= $3.0 * 5 / \sqrt{2.480}$ 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.

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2.4GHz SRD:

Antenna Type: Integral Antenna.

Antenna Gain: 0dBi.

Modulation Type: GFSK

The nominal conducted output power specified: 0dBm (Tolerance: +/-3dB).

The maximum conducted output power for the EUT is -2.24dBm in the frequency 2402MHz which is within the production variation.

The minimum conducted output power for the EUT is -2.35dBm in the frequency 2480MHz which is within the production variation.

The maximum conducted output power specified is 3dBm = 2mW

The source-based time-averaging conducted output power

= 2 * Duty factor mW (where Duty Factor \leq 1)

= 2 mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.480) 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.