



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Wireless Keyboard
Model Name	HD308-3G02
FCC ID	2AKHJ-HD308-3G02

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

BT (BLE):

$P_t = 1.646 \text{ dBm} = 1.46 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (1.46 \text{ mW} / 5 \text{ mm}) \cdot \sqrt{2.402(\text{GHz})} = 0.45 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BT (BR/EDR):

$P_t = -0.561 \text{ dBm} = 0.88 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (0.88 \text{ mW} / 5 \text{ mm}) \cdot \sqrt{2.402(\text{GHz})} = 0.27 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

2.4G:

$P_t = -10.170 \text{ dBm} = 0.10 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (0.10 \text{ mW} / 5 \text{ mm}) \cdot \sqrt{2.403(\text{GHz})} = 0.03 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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