

RF EXPOSURE EVALUATION

EUT Specification

EUT	LED Remote Control
Model Number	TY105-113-01
FCC ID	2BB8G-TY10511301
Antenna gain (Max)	0dBi
Operation Frequency	433.92MHz
Input Rating	DC 3.0V
Standard	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
Modulation	ASK

Limits

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 $\cdot f(\text{GHz})$ is the RF channel transmit frequency in GHz \cdot Power and distance are rounded to the nearest mW and mm before calculation¹⁷ \cdot The result is rounded to one decimal place for comparison \cdot The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and \cdot for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Calculated Result and Limit

For 433.92MHz SRD

Ant gain=0dBi

Ant numeric gain= 1

Field strength = 76.44dBuV/m@3m

$$P = \{[10^{\frac{76.44}{20}}/10^6 * 3]^2/(30 * 1\} * 1000\text{mW} = 0.0132\text{mW}$$

0.0132mW <1 mW

Remark: The Max Conducted Peak Output Power data refer to report Report No.:

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