

FCC RF Exposure

EUT Description: Smart Button

Model No.: EB15, EB10, EB11, EB12, EB13, EB26, EB27, EB28, EB29, EB21

FCC ID: **2A6CS-EB15**

1. Limits

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

Where:

$$\text{Result} = P/D^* \sqrt{F}$$

F= the RF channel transmit frequency in GHz

P=Maximum turn - up power in mw

D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

| Frequency (MHz) | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit (mW/cm ²) | SAR Test Exclusion |
|--|--------------------|---------------------|--------------------------|---------------------------------|--------|-----------------------------|--------------------|
| Zigbee(2475MHz) | -4.56 | -5 ± 1 | -4/0.40 | 5 | 0.126 | 3.0 | Pass |
| Note: | | | | | | | |
| PK Output power= conducted power. | | | | | | | |
| Conducted power see the test report HK2203281272-E , antenna gain=2.02dBi | | | | | | | |

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.126 which is ≤ 3 , RF Exposure testing is not required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(\text{GHz})}]$

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

Distance=5mm