

RF exposure information

FCC ID: 2AKMKMCA021

Product name: mCookie Module BLE Upload

Models names: MCA021, MDA021

1. Introduction:

This product is mCookie Module BLE Upload with Bluetooth (2402~2480MHz) function.

2. Output power considerations:

Worst case output power: -1.562dBm = 0.698mW (at 2402MHz)

3. Compliance criteria:

According to 447498 D01 General RF Exposure Guidance v05 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:

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

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

Calculate:

$$(0.698/5) * \sqrt{(2.402)} = 0.216 < 3 \text{ for 1g SAR}$$

Then SAR evaluation is not required.