

RF exposure information

FCC ID: 2AFM3XIPPOS

1. Introduction:

This product is a XipPOS operated in 2402~2480 MHz(BT) and 13.56MHz(NFC) frequency band.

2. Output power considerations:

Worst case output power: BT: 1.399dBm= 1.38mW (at 2480MHz)

NFC:2.71dBm= 1.87mW (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:

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

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

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

Calculate:

BT: $(1.38/5) \cdot \sqrt{f(2.480)} = 0.43 < 3$ for 1g SAR

NFC: $(1.87/5) \cdot \sqrt{f(2.402)} = 0.58 < 3$ for 1g SAR

Then SAR evaluation is not required.