

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	BLUE COIN FAMILY
Model Name	IDF10XXX
FCC ID	RVVBCOINPF1

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GH

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

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

Where f(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=-7.490dBm=0.18mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR=(0.18mW /5mm) .[$\sqrt{2.48(GHz)}$]= 0.057<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

2.4G GFSK:

P_t=-8.256dBm=0.15mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR=(0.15mW /5mm) .[$\sqrt{2.481(GHz)}$]= 0.047<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

Note: BLE and 2.4G GFSK don't work at the same time.

4. CONCLUSION

The SAR evaluation is not required.

