

# 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 GHz at test separation distances ≤ 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  $\le 7.5$  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):

Pt=-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) .[ $\sqrt{2.48}(\text{GHz})$ ]= 0.057<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

2.4G GFSK:

P<sub>t</sub>=-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.

