

# RF EXPOSURE EVALUATION

#### 1. PRODUCT INFORMATION

Product Description	Intelligent Heat Lamp
Model Name	SSHL175s
Series Model	SSHL175
FCC ID	2A3NS-SSHL175

## 2. EVALUATION METHOD

According to 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:

[(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

BLE 1M:

P<sub>t</sub>=6.406dBm=4.37mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(4.37 \, \text{mW} / 5 \, \text{mm})$ .[ $\sqrt{2.480 \, \text{GHz}}$ )]=1.37<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

BLE 2M:

Pt=6.491dBm=4.46mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(4.46 \text{mW} / 5 \text{mm}).[\sqrt{2.480 \text{GHz}}]=1.40<3.0$  for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

## 4. CONCLUSION

The SAR evaluation is not required.

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