

FCC RF Exposure

EUT Description: Multi-function Panel Light

Model No.: APL-PB-2512

FCC ID: 2BEG7-APL-PB-2512

1. Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

2. Test Result of RF Exposure Evaluation

5850MHz:

$$EIRP(dBm)=99.56(dBuV/m)-95.2=4.36(dBm)$$

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
5850	4.36	4±1(5)	3.16	4.71	2.96	0.00186
$Pd = \frac{Pout * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power.						
Conducted power see the test report HK2312226282-E , antenna gain=4.71dBi						

when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.00186 which is < 1.0, RF Exposure testing is not required.