

RF exposure information

FCC ID.: R56-FX1221

Product name: Portable High Resolution Music Player

Models name: FX1221, X1II, FX1222, FX1223, FX1311, FX1312, FX1313

1. Introduction:

This product is a Portable High Resolution Music Player with Bluetooth function operated in 2402~2480 MHz frequency band.

2. Output power considerations:

Worst case output power: 1.799dBm = 1.513mW (at 2480MHz)

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(GHz) is the RF channel transmit frequency in GHz

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

Calculate:

$$(1.513/5) \cdot \sqrt{(2.48)} = 0.477 < 3 \text{ for 1g SAR}$$

Then SAR evaluation is not required.