



RF EXPOSURE EVALUATION

FCC ID: 2BDM8-X6

Product Name	:	Smart Fitness Band
Model Name	:	X6
Additional Models	:	X66, X77, X88, X99, H21, H22, H23, H24, H25, H26, H27, H28, H28, H30
Models Difference	:	The difference between the models is only in their names.
Specification	:	BT BDR+EDR BLE
Operation Frequency	:	2402-2480MHz
Number of Channel	:	79 channels for BDR+EDR 40 channels for BLE
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK For DSS GFSK For BT
Antenna installation	:	Internal antenna
Antenna Gain	:	0.17dBi
Rated Power Supply	:	Input: DC 5V 1A Battery: Li-ion Battery: 421822 Rated Voltage: 3.8V Rated Capacity: 180mAh
Hardware Version	:	N/A
Software Version	:	N/A
Test sample No.	:	PTC26032423805E-1/3, PTC26032423805E-2/2.



Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4.3.1.

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

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is $\leq 50\text{mm}$ and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is $< 5\text{mm}$, a distance of 5mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.

Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
2480	5.22	5.22 ± 1	4.187936	5	1.319034	3	3DH5
2480	3.59	3.59 ± 1	2.877398	5	0.906266	3	BLE

According to KDB 447498, The device only support BT function, and no simultaneous SAR measurement is required.

Signature

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Manager

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