

RF Exposure Requirements

Product Description: Bluetooth Transmitter and Receiver 2-in-1

Model No.: B03, B03+, B03Pro, B03Plus, RT727, RT801, C03, C03+, ZW-B03, ZW-B03+, B04, B05, B06, B07, B08, B09, RT802, RT803, RT804, RT805, RT806

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According to the KDB 447498 D01 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 16 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

Bluetooth(EDR)

Total Conducted Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
7.53	5.66	5	2.402	1.75	3

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$: $5.66/5 \cdot \sqrt{2.402} = 1.75$

Bluetooth(EDR)

Total Conducted Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
7.74	5.95	5	2.440	1.86	3

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$: $5.95/5 \cdot \sqrt{2.440} = 1.86$

The exclusion thresholds is less than 3, therefore, the RF exposure evaluation is not required.