

RF exposure information

Product description

Test item : Bluetooth Low Energy Wireless Module

Applicant : LAPIS Semiconductor Co., Ltd.

Address : 2-4-8 Shinyokohama, Kouhoku-ku, Yokohama 222-8575 Japan

Model : MK71351 FCC ID : 2ACIJ71351 ISED Cert. No. : 20971-71351 : 2402 - 2480 MHz Operating frequency range

TX output power (Cond) : -0.7 dBm @2402 MHz, -0.9 dBm @2440 MHz, -0.9 dBm @2480 MHz

Maximum Antenna Gain : -0.8 dBi

Analysis for portable use

Standalone SAR test exclusion considerations are defined in the KDB 447498 Chapter 4.3.1. 1-g head or body SAR exclusion threshold is defined with formula.

[(Max. power of channel, mW) / (Min. test separation distance, mm)] * $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR

The maximum Conducted Peak Output Power is -0.7 dBm (2.402 GHz). -0.7 dBm logarithmic terms covert to numeric result is nearby 0.85 mW

General RF Exposure = $(0.85 \text{ mW} / 5\text{mm}) * \sqrt{2.402 \text{ GHz}} = 0.26 \le 3.0$

Other frequency results are

General RF Exposure = $(0.81 \text{ mW} / 5\text{mm}) * \sqrt{2.440 \text{ GHz}} = 0.25 \le 3.0$ General RF Exposure = $(0.81 \text{ mW} / 5\text{mm}) * \sqrt{2.480 \text{ GHz}} = 0.26 \le 3.0$

Bluetooth Low Energy Wireless Module (MK71351) meets the SAR exclusion. So SAR evaluation is not needed.

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