

RF exposure information

Product description

Test item : Sensor

Applicant : Metrol Co., Ltd.

Address : 1-100 Takamatsu-cho, Tachikawa City, Tokyo 190-0011 Japan

Model : RC-K3E

FCC ID : AORMETROLRCS001 Operating frequency range : 2404 - 2476 MHz

TX output power (Cond) : -4.80dBm @2.404GHz, -4.72dBm @2.440GHz, -4.39dBm @2.476GHz

Maximum Antenna Gain : +4.87dBi

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)] ≤ 3.0 for 1-g SAR

The maximum Conducted Peak Output Power is -4.39dBm (2.476GHz).

The best case gain of the antenna is +4.87dBi.

EIRP = (-4.39dBm) + (+4.87dBi) = +0.48dBm

+0.48dBm logarithmic terms covert to numeric result is nearby 1.117mW

General RF Exposure = $(1.117 \text{mW} / 5 \text{mm}) * \sqrt{2.476 \text{GHz}} = 0.351 \le 3.0$

Other frequency results are

General RF Exposure = $(1.016 \text{mW} / 5 \text{mm}) * \sqrt{2.404 \text{GHz}} = 0.315 \le 3.0$ General RF Exposure = $(1.035 \text{mW} / 5 \text{mm}) * \sqrt{2.440 \text{GHz}} = 0.323 \le 3.0$

Sensor RC-K3E meets the SAR exclusion. So SAR evaluation is not needed.

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