RF exposure information

Product description

Test item	: UNIT COMP REMOTE
Applicant	: OMRON Automotive Electric Co. Ltd.
Address	: 6368 Nenjozaka, Okusa, Komaki-city, Aichi-pref, 485-0802 Japan
Model	: GGM-M010
FCC ID	: OUCGGM-M010
Operating frequency range	: 2402 - 2480 MHz
TX output power (Cond)	: -1.37dBm @2.402GHz, -1.89dBm @2.440GHz, -2.05dBm @2.480GHz
Maximum Antenna Gain	: +0.19dBi

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)] *[√f (GHz)] ≤ 3.0 for 1-g SAR

The maximum Conducted Peak Output Power is -1.37dBm (2.402GHz).
The best case gain of the antenna is +0.19dBi.
EIRP = (-1.37dBm) + (+0.19dBi) = -1.18dBm
-1.18dBm logarithmic terms covert to numeric result is nearby 0.762mW

General RF Exposure = (0.762mW / 5mm) * √2.402GHz = 0.236 ≤ 3.0

Other frequency results are

General RF Exposure = (0.676mW / 5mm) * √2.440GHz = 0.211 ≤ 3.0
General RF Exposure = (0.652mW / 5mm) * √2.480GHz = 0.205 ≤ 3.0

UNIT COMP REMOTE GGM-M010 meets the SAR exclusion. So SAR evaluation is not needed.

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