

RF exposure information

Product description

| | | |
|---------------------------|---|--|
| Applicant | : | Renesas Electronics Corporation |
| Applicant address | : | 3-2-24 Toyosu Koto-ku Tokyo 135-0061 Japan |
| FCC ID | : | 2AEMXEKRA4W1Q56 |
| Product description | : | Microcomputer Board |
| Operating frequency range | : | 2402 - 2480 MHz |
| Maximum output power | : | 6 dBm (Manufacturer declaration) |
| Maximum antenna gain | : | +1.2 dBi |

Analysis for mobile use

The maximum conducted peak output power is 6 dBm.

The best case gain of the antenna is +1.2 dBi.

E.I.R.P. = (6 dBm) + (1.2 dBi) = 7.2 dBm

7.2 dBm logarithmic terms convert to numeric result is nearby 5.248 mW.

$$S = \frac{\text{E. I. R. P.}}{4\pi R^2} = \frac{5.248 \text{ mW}}{4\pi(20 \text{ cm})^2} = 0.001 \text{ mW/cm}^2$$

For FCC

| E.I.R.P. (mW) | Evaluation distance R (cm) | Power density S (mW/cm ²) | MPE limit (mW/cm ²) | Result |
|------------------|-------------------------------|--|------------------------------------|----------|
| 5.248 | 20 | 0.001 | 1 | Complied |

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