

RF exposure information

Product description

Applicant Renesas Electronics Corporation

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FCC ID 2AEMXRX23WTBQ56 IC ID 20194-RX23WTBQ56

Hardware version ID number RTK5RXW0C00000BJ RTK5RXW0C00000BJ Product marketing name Product description Microcomputer Board

Operating frequency range 2402 - 2480 MHz

Measured conducted output power: +2.53 dBm@2402 MHz, +2.56 dBm@2442 MHz, 2.60 dBm@ 2480 MHz

(result is referred from test report WE190516BB2-13 issued by SGS Japan Inc.)

Maximum antenna gain +1.6 dBi

Analysis for mobile use

The maximum conducted peak output power is +2.60 dBm (2480 MHz).

The best case gain of the antenna is +1.6 dBi.

E.I.R.P. = (+2.60 dBm) + (1.6 dBi) = +4.2 dBm

+4.2 dBm logarithmic terms convert to numeric result is nearby 2.63 mW.

$$S = \frac{\text{E. I. R. P.}}{4\pi R^2} = \frac{2.63 \text{ mW}}{4\pi (20 \text{ cm})^2} = 0.00052328 \text{ mW/cm}^2$$

For FCC

rorrec								
	E.I.R.P.	Evaluation distance R	Power density S	MPE limit	Result			
	(mW)	(cm)	(mW/cm^2)	(mW/cm ²)				
	2.63	20	0.00052328	1	Complied			

For ISED

E.I.R.P. (mW)	Evaluation distance R (cm)	Power density S (mW/cm ²)	MPE limit (W/m²)	Result
2.63	20	0.00052328	0.02619f ^{0.6834} 5.47 (@2480MHz)	Complied

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