

RF Exposure / SAR Statement

No. : 31AE0037-HO-09-A

Applicant : Ricoh Company, Ltd.
Type of Equipment : Option(s) for Radiocommunications
Model No. : R-BT21A
FCC ID : BBP-BT21A01

Ricoh Company, Ltd. declares that Model : Option(s) for Radiocommunications complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "R-BT21A" has 37.5 mW of conducted Peak Output power and 56.75 mW of EIRP. This equipment is considered as a mobile device so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "R-BT21A" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 37.50 mW (Maximum peak output power)
G = 1.51 Numerical Antenna gain; equal 1.80 dBi
r = 20.0 cm

For: R-BT21A

$$S = 0.01129 \text{ mW/cm}^2$$

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