

RF Exposure Info

§1.1310 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(B) Limits for General Population/Uncontrolled Exposure

300–1500 MHz: $f/1500$ mW/cm²

1500–100,000 MHz: 1.0 mW/cm²

PDAs, etc are generally approved as hand-held and hand-operated only. It can be assumed that such devices operate at 20 cm from a person's body.

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MPE estimation

Max. measured radiated power @ 850 MHz: 933 mW ERP

Max. measured radiated power @ 1900 MHz: 912 mW EIRP

Limit for MPE @ 850 MHz: 0.56 mW/cm²

Limit for MPE @ 1900 MHz: 1.00 mW/cm²

Formulas: $S_{\text{density}} = P_{\text{rad}} / 4 \times \text{Pi} \times R^2$

$$S_{[850\text{MHz}]} = 933 \text{ mW} \times 1,64 / 4 \times \text{Pi} \times 200 \text{ cm}^2$$

$$S_{[850\text{MHz}]} = 0.31 \text{ mW/cm}^2$$

$$S_{[1900\text{MHz}]} = 912 \text{ mW} / 4 \times \text{Pi} \times 200 \text{ cm}^2$$

$$S_{[1900\text{MHz}]} = 0.18 \text{ mW/cm}^2$$

Conclusion:

The limits for GSM850/1900MHz operations will not exceed.

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CERTIFICATION MANAGER

Recognized CB at USA/CANADA/JAPAN

International Type Approval

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