

RF SAFETY MPE calculation for this Wall mounted Mobile device (at 20 cm)

According to OET BULLETIN 56 Fourth Edition/August 1999,

Equation for Predicting RF Fields:

$$S = \frac{PG}{4\pi R^2} \quad S = \frac{31.33 \times 1.41}{4\pi (20)^2} \quad = 0.00878839 \text{ mW/cm}^2$$

Where: S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)