

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

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

Maximum peak output power at antenna input terminal: -6.00 (dBm)Maximum peak output power at antenna input terminal: 0.251188643 (mW)Antenna gain(typical): 2.4 (dBi)Maximum antenna gain: 1.737800829 (numeric)Time Averaging: 100 (%)Prediction distance: 0.2 (cm)Prediction frequency: 2450 (MHz)MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)Power density at prediction frequency: 0.868421 (mW/cm^2)Margin of compliance: -0.6 (dB)This equates to 8.684206555 W/m^2 PASSFor information This equates to 57.218405 V/m

Note: This device does not exceed the 60 / f (GHz) in mW limit as per FCC KDB 447498 2(a)(i), so it is allowable to be used in portable exposure conditions with no restrictions on host platforms

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