

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: 1.30 (dBm)Maximum peak output power at antenna input terminal: 1.348962883 (mW)Antenna gain(typical): 2 (dBi)Maximum antenna gain: 1.584893192 (numeric)Time Averaging: 100 (%)Prediction distance: 5 (cm)Prediction frequency: 2480 (MHz)MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)Power density at prediction frequency: 0.006805 (mW/cm^2)Margin of compliance: -21.7 (dB)This equates to 0.068053447 W/m^2 PASSFor information This equates to 5.065189976 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