

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: 43.98 (dBm) 43.979

Maximum peak output power at antenna input terminal: 25000 (mW)

Antenna gain(typical): 17.5 (dBi)

Maximum antenna gain: 56.23413252 (numeric)

Time Averaging: 100 (%)

Prediction distance: 400 (cm)

Prediction frequency: 9500 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)

Power density at prediction frequency: 0.699214 (mW/cm^2)

Margin of compliance: -1.6 (dB)

6.992140751 W/m^2 PASS

For information This equates to 51.34235155 V/m

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