

MPE PREDICTION FOR NT3BDA-8087-52C

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: 20.00 (dBm)

Maximum peak output power at antenna input terminal: 100 (mW)

Maximum antenna gain: 12 (dBi)

Maximum antenna gain: 15.84893 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 824 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.549333 (mW/cm²)

Power density at prediction frequency: 0.315304 (mW/cm²)

Maximum allowable antenna gain: 14.41106 (dBi)