

Prediction of MPE limit at a given distance

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

$S = \frac{PG}{4\pi R^2}$ Equipment WDT-6M, WDT-5E
Manufacturer PATLITE CORPORATION

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: 3.07 (dBm)

Maximum peak output power at antenna input terminal: 2.02768272 (mW)

Antenna gain(typical): 1.64 (dBi)

Maximum antenna gain: 1.45881426 (numeric)

Prediction distance: 20 (cm)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: 0.000588 (mW/cm²)

Maximum allowable antenna gain: 33.94269855 (dBi)

Margin of Compliance: 32.30269855