



Prediction of MPE limit at a given distance

MW-CSR-ESMR-25W90-806-18, Outdoor Donar Antenna

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: 22.00 (dBm)

Maximum peak output power at antenna input terminal: 158.4893192 (mW)

Antenna gain(typical): 20 (dBi)

Maximum antenna gain: 100 (numeric)

Prediction distance: 50 (cm)

Prediction frequency: 806 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.537333333 (mW/cm²)

Power density at prediction frequency: **0.504487** (mW/cm²)

Maximum allowable antenna gain: **20.27393655** (dBi)

Margin of Compliance: 0.273936554