



Prediction of MPE limit at a given distance

MW-DBDA-SMR-50W85-PS9, 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: 28.00 (dBm)

Maximum peak output power at antenna input terminal: 630.9573445 (mW)

Antenna gain(typical): 20 (dBi)

Maximum antenna gain: 100 (numeric)

Prediction distance: 100 (cm)

Prediction frequency: 899 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.6 (mW/cm²)

Power density at prediction frequency: 0.502100 (mW/cm²)

Maximum allowable antenna gain: 20.77361114 (dBi)

Margin of Compliance: 0.773611144

Note: 2dB cable and jumper loss has been included in the MPE calculation as specified by the