



Prediction of MPE limit at a given distance

1W-CBDA-SMR-10W80-PS8, Uplink 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: 26.70 (dBm)

Maximum peak output power at antenna input terminal: 467.7351413 (mW)

Antenna gain(typical): 2.6 (dBi)

Maximum antenna gain: 1.819700859 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 1880 (MHz)

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

Power density at prediction frequency: **0.169329** (mW/cm²)

Maximum allowable antenna gain: **10.31269855** (dBi)

Margin of Compliance: 7.712698554