DOWN LINK 880-894 MHZ OUTDOOR ANTENNA

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: 40.00 (dBm)

Maximum peak output power at antenna input terminal: ______ 10000 (mW)

Antenna gain(typical): 8 (dBi)

Maximum antenna gain: 6.309573445 (numeric)

Prediction distance: 200 (cm)

Prediction frequency: 894 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.6 (mW/cm^2)

Power density at prediction frequency: 0.125525 (mW/cm^2)

Maximum allowable antenna gain: 14.79421106 (dBi)

Margin of Compliance: 6.794211057