

C-S Ref. # CS01114
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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: **33.00** (dBm)
Maximum peak output power at antenna input terminal: **1995.262315** (mW)

Antenna gain(typical): **0** (dBi)
Maximum antenna gain: **1** (numeric)
Prediction distance: **30** (cm)
Prediction frequency: **162** (MHz)

MPE limit for uncontrolled exposure at prediction frequency: **0.2** (mW/cm²)

Power density at prediction frequency: **0.176420** (mW/cm²)

Maximum allowable antenna gain: **0.544823691** (dBi)

Margin of Compliance at: 30cm = 0.54dB