

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/cm ²)
Power density at prediction frequency:	0.176420 (mW/cm ²)
Maximum allowable antenna gain:	0.544823691 (dBi)
Margin of Compliance at:	30cm = 0.54dB