



### 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 isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 47.8 dBm

Maximum peak output power at antenna input terminal: 59979.1 mW

Antenna gain(maximum): 17.2 dBi

Maximum antenna gain: 52.5 numeric

Time Averaging: 100 %

Prediction distance: 780 cm

Prediction frequency: 2110 MHz

IC MPE limit for uncontrolled exposure at prediction frequency: 4.90 W/m<sup>2</sup>

Power density at prediction frequency: 0.41 mW/cm<sup>2</sup>

This equates to: 4.12 W/m<sup>2</sup>