

Prediction of MPE limit at a given distance

Equation from page 19 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:	42.00	(dBm)
Maximum peak output power at antenna input terminal:	15848.9319	(mW)
Antenna gain(maximum):	15	(dBi)
Maximum antenna gain:	31.6227766	(numeric)
Time Averaging:	100	(%)
Prediction distance:	255	(cm)
Prediction frequency:	938	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.625	(mW/cm ²)
Power density at prediction frequency:	0.61335198	(mW/cm ²)
Margin of compliance:	-0.01	(dB)
This equates to:	6.13351985	(W/m ²)