

Prediction of Distance for a specific MPE Limit TYOJN5168U0

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

$$R = \sqrt{\frac{PG}{4\pi S}}$$

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 centre of radiation of the antenna

Max input to antenna terminal

Max Antenna gain

Prediction Freq

MPE limit for uncontrolled exposure at prediction frequency

2.8	dBm	1.91
1.1	dBi	1.66
2.44	GHz	2.44E+09
1	mW/cm ²	

Permitted distance at MPE limit (1 mW/cm²) in cm

0.442