

Prediction of MPE limit at a given distance

[GS075](#)

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 device output terminal:	<u>12.39</u>	(dBm)
Cable and Jumper loss	<u>0.0</u>	(dB)
Maximum peak output power at antenna input terminal:	<u>12.39</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>17.33803998</u>	(mW)
Single Antenna gain(typical):	<u>0.5</u>	(dBi)
Number of Antennae	<u>1</u>	
Total Antenna gain(typical):	<u>0.5</u>	(dBi)
Maximum antenna gain:	<u>1.122018454</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>903</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.602</u>	(mW/cm ²)
Power density at prediction frequency:	<u>0.003870</u>	(mW/cm ²)
	<u>0.038702</u>	(W/m ²)
Maximum allowable antenna gain:	<u>22.41866347</u>	(dBi)
Margin of Compliance:		21.91866347 dB