

Prediction of MPE limit at a given distance

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

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

S = power density

P = output power

G = antenna gain

R = distance

	DL		UL	
Output Power	<u>37</u>	(dBm)	<u>37</u>	(dBm)
Output Power	<u>5012</u>	(mW)	<u>5012</u>	(mW)
Antenna Gain	<u>2</u>	(dBi)*	<u>0</u>	(dBi)
Antenna Gain	<u>1.58</u>	(numeric)	<u>1.00</u>	(numeric)
Distance	<u>100</u>	(cm)	<u>100</u>	(cm)
Duty Cycle:	<u>100</u>	(%)	<u>100</u>	(%)
Frequency	<u>851</u>	(MHz)	<u>806</u>	(MHz)
MPE Limit General Public	<u>0.567</u>	(mW/cm^2)	<u>0.537</u>	(mW/cm^2)
Power Density	<u>0.063</u>	(mW/cm^2)	<u>0.040</u>	(mW/cm^2)
Margin	9.53	(dB)	11.29	(dB)

** derived from 4.85 dBd with 5 dB cable loss*