

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 an isotropic radi
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	<u>26.95</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>495.4501908</u>	(mW)
Number of Ports/Polarities	<u>2</u>	
Antenna gain(typical):	<u>16.5</u>	
Antenna gain(total):	<u>19.51029996</u>	(dBi)
Maximum antenna gain:	<u>89.33671843</u>	(numeric)
Time Averaging:	<u>100</u>	(%)
Prediction distance:	<u>60</u>	(cm)
Prediction frequency:	<u>5850</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	
Power density at prediction frequency:	0.978403	(mW/cm ²)
FCC Margin of compliance:	-0.1	(dB)
This equates to	9.784026738	W/m ²
RS-102 This equates to	60.73366513	V/m
RSS-102 Issue 5 limit	9.831274388	W/m ²
As per Section 4 table 5		

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