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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 radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at device output terminal:	22.46 dBm
Cable and Jumper loss:	0.0 dB
Maximum peak output power at antenna input terminal:	22.46 dBm
	176.1976046 mW
Single Antenna gain (typical):	8 dBi
Number of Antennae:	1
Total Antenna gain (typical):	8 dBi
	6.309573445 (numeric)
Prediction distance:	20 cm
Prediction frequency:	584 MHz
MPE limit for uncontrolled exposure at prediction frequency:	0.389333333 mW/cm ²
Power density at prediction frequency:	0.221172 mW/cm²
	2.211720 W/m ²
Tx On time:	1.000000 ms
Tx period time:	1.000000 ms
Average Factor:	100.000000 %
Average Power density at prediction frequency:	2.211720 W/m ²
Maximum allowable antenna gain:	10.45591443 dBi
Margin of Compliance:	2.455914434 dB