ONE WORLD ○ OUR APPROVAL

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:	22.90	dBm
Cable and Jumper loss:	0.0	dB
Maximum peak output power at antenna input terminal:	22.90	dBm
	194.98	mW
Single Antenna gain (typical):	5.00	dBi
Number of Antennae:	1.00	
Total Antenna gain (typical):	5.00	dBi
	3.16	(numeric)
Prediction distance:	20.00	cm
Prediction frequency:	2412.00	MHz
MPE limit for uncontrolled exposure at prediction frequency:	1.00	mW/cm^2
Power density at prediction frequency:	0.12	**mW/cm^2**
	1.23	W/m^2
Tx On time:	1.00	ms
Tx period time:	1.00	ms
Average Factor:	100.00	%
Average Power density at prediction frequency:	1.23	W/m^2