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:	22.69	dBm
Cable and Jumper loss:	0.0	dB
Maximum peak output power at antenna input terminal:	22.69	dBm
	186	mW
Single Antenna gain (typical):	8	dBi
Number of Antennae:	1	
Total Antenna gain (typical):	8	dBi
	6.31	(numeric)
Prediction distance:	40	cm
Prediction frequency:	473	MHz
MPE limit for uncontrolled exposure at prediction frequency:	0.32	mW/cm^2
Power density at prediction frequency:	**0.058**	**mW/cm^2**
	0.58	W/m^2
Tx On time:	1.00	ms
Tx period time:	1.00	ms
Average Factor:	100	%
Average Power density at prediction frequency:	0.58	W/m^2
Maximum allowable antenna gain:	15.3	dBi
Margin of Compliance:	**7.3**	**dB**