Nemko
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

	Port 0	Port 1	
Maximum peak output power at device output terminal:	20.2	20.2	dBm
Cable and Jumper loss:	0	0	dB
Maximum peak output power at antenna input terminal:	20.2	20.2	dBm
	104.7128548	104.7128548	mW
Single Antenna gain (typical):	7	7	dBi
Number of Antennae:	1	1	
Total Antenna gain (typical):	7	7	dBi
	5.011872336	5.011872336	(numeric)
Prediction distance:	20	20	cm
Prediction frequency:	3690	3690	MHz
MPE limit for uncontrolled exposure at prediction frequency:	1	1	mW/cm²
Power density at prediction frequency:	0.104407127	0.104407127	mW/cm²
	1.044071268	1.044071268	W/m²
Tx On time:	1	1	ms
Tx period time:	1	1	ms
Average Factor:	100	100	%
Average Power density at prediction frequency:	1.044071268	1.044071268	W/m²

Margin of Compliance: