

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

Redline AFD-DB-600-2ft-01	and	Redline AFS-DBG-60090-01
Maximum peak output power at device output terminal:	20.93	dBm
Cable and Jumper loss:	0.00	dB
Maximum peak output power at antenna input terminal:	20.93	dBm
	124.00	mW
Single Antenna gain (typical):	11.00	dBi
Number of Antennae:	2.00	
Total Antenna gain (typical):	14.01	dBi
	25.18	(numeric)
Prediction distance:	40.00	cm
Prediction frequency:	473.00	MHz
MPE limit for uncontrolled exposure at prediction frequency:	0.32	mW/cm ²
Power density at prediction frequency:	0.16	mW/cm²
Tx On time:	1.55	W/m ²
Tx period time:	1.00	ms
Average Factor:	100.00	%
Average Power density at prediction frequency:	1.55	W/m ²
Maximum allowable antenna gain:	17.09	dBi
Margin of Compliance:	3.08	dB