Nemko

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 antenna input terminal:	27.00	(dBm)
Maximum peak output power at antenna input terminal:	501.1872336	(mW)
Antenna gain(typical):	21	(dBi)
Maximum antenna gain:	125.8925412	(numeric)
Prediction distance:	200	(cm)
Prediction frequency:	812	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.533333333	(mW/cm^2
Power density at prediction frequency:	0.125525	(mW/cm^2
Margin of compliance:	-6.3	(dB)

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