

## Global EMC

### 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 radi

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	16.00	(dBm)
Maximum peak output power at antenna input terminal:	39.81071706	(mW)
Antenna gain(typical):	0	(dBi)
Maximum antenna gain:	1	(numeric)
Time Averaging:	100	(%)
Prediction distance:	20	(cm)
Prediction frequency:	2450	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.007920	(mW/cm^2)
Margin of compliance:	-21.0	(dB)
This equates to	0.079200905	W/m^2
For information This equates to	5.464315256	V/m
		PASS

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