Global EMC **Ashwani**

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:	4.50	(dBm)
Maximum peak output power at antenna input terminal:	2.818382931	(mW)
Antenna gain(typical):	1	(dBi)
Maximum antenna gain:	1.258925412	(numeric)
Time Averaging:	100	(%)
Prediction distance:	1	(cm)
Prediction frequency:	2450	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.282352	(mW/cm^2)
Margin of compliance:	-5.5	(dB)
This equates to	2.823515239	W/m^2 Complies
For information This equates to	32.62614358	V/m

Note: This device does not exceed the 60 / f (GHz) in mW limit as per FCC KDB 447498 2(a)(i), so it is allowable to be used in portable exposure conditions with no restrictions on host platforms

Malhotra

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