## **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

radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:-0.60 (dBm)Maximum peak output power at antenna input terminal:0.87096359 (mW)Antenna gain(typical):2.4 (dBi)Maximum antenna gain:1.737800829 (numeric)Time Averaging:100 (%)Prediction distance:20 (cm)Prediction frequency:2480 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: \_\_\_\_\_\_\_1 (mW/cm^2)

Power density at prediction frequency: 0.000301 (mW/cm^2)

Margin of compliance: -35.2 (dB)

This equates to 0.003011134 W/m^2 PASS

For information This equates to 1.065456559 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