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 radia

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 5.00 (dBm)

Maximum peak output power at antenna input terminal: 3.16227766 (mW) Antenna gain(typical): 0 (dBi)

Maximum antenna gain: 1 (numeric) Time Averaging: 100 (%) Prediction distance: 1 (cm)
Prediction frequency: 2480 (MHz 2480 (MHz) MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)

Power density at prediction frequency: 0.251646 (mW/cm^2)

> Margin of compliance: -6.0 (dB)

This equates to 2.516460605 W/m^2 PASS

For information This equates to 30.8010657 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