IMK-HARDSAP

2.4 GHz worst case MPE

input

Output power measured in dBm	16
measurement cable loss in dB	0
duty cycle	1
Antenna gain in dBi	2

intermediate calculations

Output power in dBm	16
Output power in mW	40
numeric antenna gain	1.58
EIRP in mW	63

limit 1 mW/cm^2 uncontrolled @ 2.4 GHz FCC/NCRP limit use different numbers for controlled environment or other band

EIRP = Output power (mW) X numeric antenna gain

outputs

MPE distance in cm	2.2 the distance in cm at which far field MPE = limit
MPE distance in inches	0.9 the distance in inches at which far field MPE = limit
wavelenngth in inches	4.9 calculated MPE distance exceeds actual MPE distance significantly at distances less than one wavelength