

IMK-HARDSAP**2.4 GHz worst case MPE**

limit 1 mW/cm² uncontrolled @ 2.4 GHz FCC/NCRP limit
 use different numbers for controlled environment or other band

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

$$\text{EIRP} = \text{Output power (mW)} \times \text{numeric antenna gain}$$

outputs

MPE distance in cm	2.2
MPE distance in inches	0.9
wavelennngth in inches	4.9

the distance in cm at which far field MPE = limit

the distance in inches at which far field MPE = limit

calculated MPE distance exceeds actual MPE distance significantly at distances less than one wavelength