

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

Equipment
Manufacturer

Laser Printer CM-700d
Konicaminolta Sensing Inc.

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: 3.46 (dBm)

Maximum peak output power at antenna input terminal: 2.22E+00 (mW)

Antenna gain(typical): 2.14 (dBi)

Maximum antenna gain: 1.636816521 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 2440 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1.00245043 (mW/cm²)

Power density at prediction frequency: **7.223E-04** (mW/cm²)

Maximum allowable antenna gain: **33.56332762** (dBi)

Margin of Compliance: **31.42332762**