

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 the antenna terminal: 20.00 (dBm)

Maximum peak output power at the antenna terminal: 100 (mW)

Antenna gain(typical): 6 (dBi)

Maximum antenna gain: 3.981071706 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 5150 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: 0.079201 (mW/cm²)

Maximum allowable antenna gain: 17.01269855 (dBi)

Worst case antenna gain used at 5GHz channel Worst case power used from FCC ID: RTP55010016-5
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