

Prediction of MPE Limit
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Equation from page 18

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

$$R = \sqrt{\frac{PG}{4\pi S}}$$

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

Choose

 Occupational/Controlled -(BTS)
 General Population/Uncontrolled -(CPE)
ENTER

 Tx Frequency: (MHz)
 Maximum Peak Power at Antenna Input Terminal: (dBm)
 Antenna gain (typical)+9dB for 8-element array: (dBi)

S= 1.00 (mW/cm²)
P= 14.13 (mW)
G= 63.10 (numeric)

R = 8.42 (cm)

NOTE: The following warning must appear in the installation manual.

CAUTION:

The antenna(s) used for this transmitter must be fixed-mounted on outdoor permanent structures with a separation distance of at least 2 meters from all persons during normal operation. Users and installers must be provided with antenna installation instructions and transmitter operating conditions, including antenna co-location requirements of §1.1307(b)