

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)	<input type="radio"/>	
General Population/Uncontrolled -(CPE)	<input checked="" type="radio"/>	
		ENTER
		
Tx Frequency:	<div style="border: 1px dashed black; padding: 2px; display: inline-block;">5800.00</div>	(MHz)
Maximum Peak Power at Antenna Input Terminal:	<div style="border: 1px dashed black; padding: 2px; display: inline-block;">11.50</div>	(dBm)
Antenna gain (typical)+9dB for 8-element array:	<div style="border: 1px dashed black; padding: 2px; display: inline-block;">18.00</div>	(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)