

Prediction of MPE limit at a given distance

<u>MW-CSR-800AB-25W90, with Outdoor DownLink Antenna</u> Equation from page 18 of OET Bulletin 65, Edition 97-01

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

where: S = power density

Ν

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:	<u>36.00</u> (dBm)
Maximum peak output power at antenna input terminal:	<u>3981.071706</u> (mW)
Antenna gain(typical):	<u> </u>
Maximum antenna gain: _	<u> </u>
Prediction distance:	<u> </u>
Prediction frequency:	<u> </u>
MPE limit for uncontrolled exposure at prediction frequency: _	0.579333333 (mW/cm^2)
Power density at prediction frequency:	0.316804 (mW/cm^2)
Maximum allowable antenna gain:	12.62138381 (dBi)

Margin of Compliance: 2.621383814