



MPE calculation

Model number: 0554 9312
FCC ID WAF-05549312
IC: 6127B-05549312

According to the RSS-102, issue 5 Standard and to FCC §15.247(b)(4) and §1.1307(b)(1), systems operation under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

MPE Prediction

<i>Frequency range (MHz)</i>	<i>Power density (mW/cm²)</i>
400 – 1500	f/1500
1500 - 100000	1 mW/cm ²

Equation for calculation

$$S = P * G / (4\pi R^2)$$

Where: S – Power density
P – Power input to antenna
G – Antenna gain relative to isotropic radiator
R – Distance to antenna

Maximum peak output power at antenna terminal: 13.8 dBm (23.98 mW)

Antenna gain: 0.15 dBi

Prediction distance: 20cm

MPE limit for General Population/Uncontrolled Exposure: 1 mW/cm²

Calculation's results:

Power density at 20cm distance: **0.0049mW/cm²**

Best Regards