

5473A Clouds Rest Road : Mariposa, CA 95338 : Phone 209-966-5420 : Fax 209-742-6133

Maximum Permissible Exposure Calculations

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Calculations prepared for:	Calculations prepared by:
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Model Number:PAF-08XX-XXXFCC Identification:NA	
Fundamental Operating Frequency:	1930-1990 MHz
Maximum Rated Output Power: Measured Output Power:	555Watts 500Watts

MPE Limit in accordance with 1.1310(b): Limits for general population/uncontrolled exposure

MPE Limit for 869 - 894 MHz = $f/1500 = 0.6 \text{ mW/cm}^2$ (6 W/m²)

Power Output	Power Density	Minimum	
(Watts)	Limit	Distance	
	(mW/cm^2)	(Meters)	
500	0.6	2.6	
Power Density (W/m ²) = $\frac{30 \text{ x } P_t \text{ x } G}{d^2 \text{ x } Z_0}$			

P_t = Power Delivered to the Antenna	G = Antenna Gain
d = Distance in meters	Zo = Impedance of Free Space

The typical antennas to be used with the EUT are structure mount antennas which under normal operation has an antenna height of at least 5 meters. As can be seen from the MPE result, this device passes the limit specified in 1.1310 at a distance of 2.6 meter.

Calculation:

$$d = \sqrt{\frac{30 \, x \, 500 \, x \, 1}{6 \, \mathrm{x} \, 377}}$$

= 2.6meter.