



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

FCC 1.1310(b), Maximum Permissible Exposure Calculations RSS133 Sun clause 8 Exposure of Humans to RF Field

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Calculations prepared for:

Printronix
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Model Number: SLPA7204r
FCC Identification: NA

Fundamental Operating Frequency: 902-928MHz

Maximum Rated Output Power: 0.08710
Measured Output Power: 0.08710

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

MPE Limit for 902-928 MHz = 0.6 mW/cm² (6 W/m²)

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Power Output (Watts)	Power Density Limit (mW/cm ²)	Minimum Distance (Meters)
0.08710	0.6	0.034m

$$\text{Power Density (W/m}^2\text{)} = \frac{30 \times P_t \times G}{d^2 \times Z_0}$$

P_t = Power Delivered to the Antenna
d = Distance in meters

G = Antenna Gain
Z₀ = Impedance of Free Space

The typical antennas to be used with the EUT are structure mount antennas which under normal operation has an enclosure that keep a distance of at least 0.1 m from the user. As can be seen from the MPE result, this device passes the limit specified in 1.1310 at a distance of 0.034 meter.

Calculation:

$$d = \sqrt{\frac{30 \times 0.08710 \times 1}{6 \times 377}}$$

= 0.034meter.