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|--|--|--|------------------------------------|
| MPE Calculator | DMP | Test Number | 091109 |
| MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi. | | | |
| | dBi = dB gain compared to an isotropic radiator. | | |
| | S = power density in mW/cm ² | Antenna Gain (dBi) | 1 |
| | Output Power | dBd + 2.17 = dBi | dBi to dBd 2.17 |
| Tx Frequency (MHz) | 915 | (Watts) | 0.002000 |
| | | | Antenna minus cable (dBi) 1.00 |
| Cable Loss (dB) | 0.0 | (dBm) | 3.01 |
| | Calculated ERP (mw) | 1.528 | Radiated (EIRP) dBm 4.010 |
| | Calculated EIRP (mw) | 2.518 | |
| | | | Radiated (ERP) dBm 1.840 |
| Occupational Limit | 3.05000 | mW/cm² | |
| General Public Limit | 0.61000 | mW/cm² | |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> Power density (S) = EIRP ----- = mW/cm² 4 p r² [r (cm), EIRP (mW)] </div> | | | |
| FCC radio frequency radiation exposure limits per 1.1310 | | | |
| Frequency (MHz) | Occupational Limit | Public Limit | |
| 300-1,500 | f/300 | f/1500 | |
| 1,500-10,000 | 5 | 1 | |
| FCC radio frequency radiation exposure limits per 1.1310 | | | |
| Frequency (MHz) | Occupational Limit @ Tx Freq (mW/cm ²) | Public Limit @ Tx Freq (mW/cm ²) | |
| 300-1,500 | 3.05 | 0.61 | |
| 1,500-10,000 | 5 | 1 | |
| | EIRP | Distance | Distance |
| | milliwatts | cm | inches |
| | 2.518 | 70.00 | 27.56 |
| | 2.518 | 60.00 | 23.62 |
| | 2.518 | 50.00 | 19.69 |
| | 2.518 | 40.00 | 15.75 |
| | 2.518 | 30.00 | 11.81 |
| | 2.518 | 20.00 | 7.87 |
| | 2.518 | 10.00 | 3.94 |
| | 2.518 | 9.00 | 3.54 |
| | 2.518 | 8.00 | 3.15 |
| | 2.518 | 7.00 | 2.76 |
| | 2.518 | 6.00 | 2.36 |
| | 2.518 | 5.00 | 1.97 |
| | 2.518 | 4.00 | 1.57 |
| | 2.518 | 3.00 | 1.18 |
| | 2.518 | 1.00 | 0.39 |
| | | | S |
| | | | mW/cm ² |
| | | | 0.00004 |
| | | | 0.00006 |
| | | | 0.00008 |
| | | | 0.00013 |
| | | | 0.00022 |
| | | | 0.00050 |
| | | | 0.00200 |
| | | | 0.00247 |
| | | | 0.00313 |
| | | | 0.00409 |
| | | | 0.00557 |
| | | | 0.00801 |
| | | | 0.01252 |
| | | | 0.02226 |
| | | | 0.20036 |
| | | | |
| | Frequency (MHz) | Occupational Limit minimum Distance (cm) | Public Limit minimum distance (cm) |
| | 300-1,500 | 1 cm | 1 cm |
| | 1,500-10,000 | N/A | N/A |