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|--|--|--|---|--|---|--|
| Garmin International | GMN-01823 | Test Number: | 181113 | | | |
| MPE Calculator | 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 | | | | | |
| | Output Power | | | | | |
| | Maximum Peak Power (Watts) | 391.7 | | Antenna Gain (dBi) | 5.1 | |
| | Output Power at 1.1% Duty cycle | 4.309 | dBd + 2.17 = dBi | dBi to dBd | 2.2 | |
| Tx Frequency (MHz) | 1090 | Maximum (Watts) | 4.3 | Antenna Gain (dBd) | 2.93 | |
| Cable Loss (dB) | 0.0 | (dBm) | 36.3 | Antenna minus cable (dBi) | 5.10 | |
| | Calculated ERP (mw) | 8460.435 | | EIRP = Po(dBm) + Gain (dB) | | |
| | Calculated EIRP (mw) | 13944.171 | | Radiated (EIRP) dBm | 41.444 | |
| | | | | ERP = EIRP - 2.17 dB | | |
| | | | | Radiated (ERP) dBm | 39.274 | |
| | <div style="border: 1px solid black; padding: 5px; width: fit-content;"> Power density (S) EIRP ----- = mW/cm² $4 \pi r^2$ r (cm) EIRP (mW) </div> | | | | | |
| Occupational Limit | FCC radio frequency radiation exposure limits per 1.1310 | | | | | |
| 3.6333 mW/cm ² | Frequency (MHz) | Occupational Limit (mW/cm ²) | Public Limit (mW/cm ²) | | | |
| | 300-1,500 | f/300 | f/1500 | | | |
| General Public Limit | 1,500-10,000 | 5 | 1 | | | |
| 0.7267 mW/cm ² | | | | | | |
| Occupational Limit | IC radio frequency radiation exposure limits per RSS-102 | | | | | |
| 0.6455 f ^{0.5} W/m ² | Frequency (MHz) | Occupational Limit (W/m ²) | Public Limit (W/m ²) | | | |
| 21.31128 W/m ² | 100-6,000 | 0.6455 f ^{0.5} | | | | |
| General Public Limit | 6,000-15,000 | 50 | | | | |
| 0.02619 f ^{0.6834} W/m ² | 48-300 | | 1.291 | | | |
| 3.11826 W/m ² | 300-6,000 | | 0.02619 f ^{0.6834} | | | |
| | 6,000-15,000 | 50 | 10 | | | |
| EIRP | S | S | Distance | Distance | Distance | Distance |
| milliwatts | mW/cm ² | W/m ² | cm | meter | inches | Feet |
| 13944.171 | 0.11096 | 1.10964 | 100.00 | 1.00 | 39.37 | 3.28 |
| 13944.171 | 0.13699 | 1.36993 | 90.00 | 0.90 | 35.43 | 2.95 |
| 13944.171 | 0.17338 | 1.73382 | 80.00 | 0.80 | 31.50 | 2.62 |
| 13944.171 | 0.22646 | 2.26458 | 70.00 | 0.70 | 27.56 | 2.30 |
| 13944.171 | 0.30823 | 3.08234 | 60.00 | 0.60 | 23.62 | 1.97 |
| 13944.171 | 0.44386 | 4.43857 | 50.00 | 0.50 | 19.69 | 1.64 |
| 13944.171 | 0.69353 | 6.93526 | 40.00 | 0.40 | 15.75 | 1.31 |
| 13944.171 | 0.90583 | 9.05830 | 35.00 | 0.35 | 13.78 | 1.15 |
| 13944.171 | 1.23294 | 12.32935 | 30.00 | 0.30 | 11.81 | 0.98 |
| 13944.171 | 1.77543 | 17.75427 | 25.00 | 0.25 | 9.84 | 0.82 |
| 13944.171 | 2.09762 | 20.97622 | 23.00 | 0.230 | 9.06 | 0.75 |
| 13944.171 | 2.77410 | 27.74105 | 20.00 | 0.200 | 7.87 | 0.66 |
| 13944.171 | 3.42482 | 34.24820 | 18.00 | 0.180 | 7.09 | 0.59 |
| 13944.171 | 4.93174 | 49.31741 | 15.00 | 0.150 | 5.91 | 0.49 |
| 13944.171 | 11.09642 | 110.96418 | 10.00 | 0.100 | 3.94 | 0.33 |
| 13944.171 | 13.69928 | 136.99282 | 9.00 | 0.090 | 3.54 | 0.30 |
| 13944.171 | 17.33815 | 173.38154 | 8.00 | 0.080 | 3.15 | 0.26 |
| | | | | | | |
| | | Frequency (MHz) | Occupational Limit minimum Distance (meters) FCC Limits | Occupational Limit minimum Distance (Meters) IC Limits | Public Limit minimum distance (meters) FCC Limits | Public Limit minimum distance (Meters) IC Limits |
| | | 300-1,500 | 0.18 | 0.23 | 0.40 | 0.60 |
| | | 1,500-10,000 | N/A | N/A | N/A | N/A |

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 Revision 1

Garmin International, Inc.
 Model: GMN-01823
 Test: 181113
 Test to: 47CFR Parts 2 and 87
 File: GMN01823 RFEp

SN: 5GJ000404
 FCC ID: IPH-0328533
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