| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Alvarion Ltd** | | | | | | | | | |
| | | | | | | | | | |
| **FCC ID: LKT-VL-53C** | | | | | | | | | |
| | | | | | | | | | |
| **U-NII Transceiver** | | | | | | **Calculate mW/cm2 here. Enter frequency in MHz:** | | | |
| | | | | | | | | | |
| **RF Hazard Distance Calculation** | | | | | | Calculation of Limits from 1.1310 Table 1 | | | |
| | | | | | | | | | Contr |
| | | | | | | | | | Ave 6 |
| **mW/cm2 from Table1:** | | **1.00** | (E: 61 V/m) | | | F(MHz) | **Actual F, MHz** | | Occ, |
| | | | | | | 0.3-3 | 0.5 | | 1 |
| Max RF Powe | TX Antenna | MPE distance | S, mW/cm@ | Comment | | *3.0 - 30.0* | *5* | | *18* |
| P, dBm | G, dBi | cm | at 20 cm | | | **30.0-300** | **55** | | **1** |
| | | | | | | *300-1500* | *555* | | *1* |
| **12.4** | **16.0** | **7.4** | **0.14** | | | 1500-100000 | 5555 | | 5 |
| **8.5** | **21.0** | **8.4** | **0.18** | | | 1500-100000 | 5555 | | 5 |
| **2.0** | **28.0** | **8.9** | **0.20** | | | 1500-100000 | 5555 | | 5 |
| | | | | | | | | | |
| | | | | | | **Enter P(mW)** | Equivalent dBr | **Enter dBm** | Equiv |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| **Basis of Calculations:** | | | | | | ***64*** | **18.1** | ***18.1*** | |
| | | | | | | | | | |
| E^2/3770 = S, mW/cm2 | | | | | | | | | |
| E, V/m = (Pwatts*Ggain*30)^.5/d, meters | | | | | | | | | |
| d = ((Pwatts*G*30)/3770*S))^0.5 | | | Pwatts*Ggain = 10^(PdBm-30+GdBi)/10) | | | | | | |
| S@20cm = 20 log (MPE dist/20cm) | | | | | | | | | |
| **NOTE: For mobile or fixed location transmitters, minimum separation distance is for FCC compliance is 20 cm,** | | | | | | | | | |
| **even if calculations indicate MPE distance is less** | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |