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|---|---|---|---|---|---|---|---|---|---|
| **Alvarion Ltd** | | | | | | | | | |
| | | | | | | | | | |
| **FCC ID: LKT-BMAX-BA4M-A25** | | | | | | | | | |
| | | | | | | | | | |
| **Part 27 BRS/EBS** | | | | | | **Calculate mW/cm2 here. Enter frequency in MHz:** | | | |
| **2.5 GHz Base Station** | | | | | | | | | |
| **RF Hazard Distance Calculation** | | | | | | Calculation of Limits from 1.1310 Table 1 | | | |
| | | | | | | | | | Contro |
| | | | | | | | | | Ave 6 r |
| **mW/cm2 from Table1:** | | **1.00** | | | | F(MHz) | **Actual F, MHz** | | Occ, n |
| | | | | | | 0.3-3 | 0.5 | | 10 |
| 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* | *902* | | *3.* |
| 38.2 | 18.00 | 182.1 | 82.93 | Manual states 2m sep. | | 1500-100000 | 5555 | | 5. |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | **Enter P(mW)** | Equivalent dBr | **Enter dBm** | Equiva |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| **Basis of Calculations:** | | | | | | ***895.4*** | **29.52** | ***29.52*** | |
| | | | | | | | | | |
| 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** | | | | | | | | | |