



FCC ID RFF-LD4BT
IC ID: 3177A - LD4BT

Maximum Permissible Exposure

as specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure

Frequency range (MHz)	Power density (mW/cm ²)
300 – 1,500	f/1500
1,500 – 100,000	1.0

Calculations 2.4 GHz band

The output power at antenna input terminal: -2.56 dBm

Prediction distance **R**: 20 cm
 Prediction frequency: 2480 MHz
 Antenna Gain: 0.5 dBi
 MPE limit **S**: 1 mW/cm²

Equation OET bulletin 65, page 18, edition 97-01: $S = P * G / (4\pi R^2)$

S = power density
 P = power input to the antenna
 G = power gain of the antenna in the direction of interest relative to an isotropic radiator
 R = distance to the centre of radiation of the antenna

Maximum Power density	Limit	Verdict
0.0001 mW/cm ²	1.0 mW/cm ²	Pass

Note. The calculation was made under the consideration of the duty cycle effect.

Yours sincerely



Patrick Lomax, Project Manager