

RF Exposure Requirements

Product Description: Wireless controller

Model No.: LY16A_CR

FCC ID: 2BP8I-LY16A

IC: 34138-LY16A

Tx frequency: 433.92 MHz Type of Modulation: OOK

Antenna Type: PCB Antenna

Nominal rated field strength: 76.04 dBμV/m at 3 meter

Based on the Maximum allowed field strength was 76.04 dBμV/m at 3m in frequency 433.92 MHz, thus;

$$\text{The EIRP} = [(FS * D) ^2 * 1000 / 30] = 0.0121 \text{ mW}$$

According to the FCC Part 1.1307(b)(3)(i)(A) and KDB 447498 D04v01, a single RF source is exempt RF device if the available maximum time-averaged power is no more than **1 mW**, regardless of separation distance.

According to the RSS-102 Issue 6 Table 11, a single RF source is an exempt RF device if the maximum time-average power available at a separation distance of 5mm or less does not exceed **32mw**, regardless of separation distance.

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.