

RF Exposure Requirements

Product Description: 2.4G remote control

Model No.: GR811

FCC ID: 2AHV3KK22

According to the KDB 447498 D01 V06, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

General 2.4GHz Technique

Tx frequency range: 2452 ~ 2474 MHz

Antenna Type: External antenna (Gain: 2.0 dBi)

The maximum conducted output power: 0 dBm

The maximum radiated output power (e.i.r.p): 2 dBm

The maximum radiated emission for the EUT is 80.53dBμV/m at 3m

The maximum conducted output power specified is 0 dBm = 1 mW

The source- based time-averaging conducted output power

= 1 * Duty cycle mW = 0.10 mW (Duty Cycle = 10.4%)

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$

= $3.0 * 5 / \text{sqrt}(2.474)$ mW

= 9.54 mW

Source-based time-averaged Conducted output power is 0.10 mW < 9.54mW

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.