

RF Exposure Requirements

Product Description: 2.4G remote control receiver

Model No.: CSG4A

FCC ID: 2ARLM-GC775024

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: 2420 ~ 2465 MHz

Type of Modulation: GFSK

Antenna Type: PCB antenna (Gain: 1.9 dBi)

The maximum conducted output power: 0 dBm

The maximum radiated output power (e.i.r.p): 1.9 dBm

The maximum radiated emission for the EUT is 81.87dB μ V/m at 3m

The maximum conducted output power specified is 0 dBm = 1.0 mW

The source- based time-averaging conducted output power
= 1.0 * Duty cycle mW = 1 mW (Duty Cycle $\leq$ 100%)

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt (freq. in GHz)

= 3.0 * 5 / sqrt (2.465) mW

= 9.55 mW

Source-based time-averaged Conducted output power is 1 mW < 9.55mW

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.