

# INTERTEK TESTING SERVICES

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## RF Exposure

The Equipment Under Test (EUT) is a Remote Controller operating at 433.92MHz. The EUT is powered by CR2025 battery (DC 3V). For more detailed features description, please refer to the user's manual.

Modulation Type: ASK

Antenna Type: Integral antenna.

Antenna Gain: 0 dBi Max

The nominal conducted output power specified: -20dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: -20dBm (+/- 3dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 76.4dBμV/m at 3m in the frequency 433.92MHz.

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -18.83dBm  
which is within the production variation.

The maximum conducted output power specified is -17dBm = 0.02mW

The source-based time-averaging conducted output power  
= 0.02 \* Duty factor mW (where Duty Factor  $\leq 1$ )  
= 0.02 mW

The SAR Exclusion Threshold Level:

=  $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$   
=  $3.0 * 5 / \sqrt{0.43392}$  mW  
= 22.77 mW

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.