

INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is a Skelly Dog operating at 433.92MHz. The EUT is powered by DC 3.0V (2 x 1.5V AAA batteries). For more detailed features description, please refer to the user's manual.

Antenna Type: Integral Antenna

Modulation: FSK

Antenna Gain: 2dBi

The normal peak radiated output power (e.i.r.p) is: -30.0dBm (tolerance: +/- 3dB).

The normal peak conducted output power is -32.0dBm (tolerance: +/- 3dB).

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 64.8 dBμV/m at 3m in the frequency 433.92MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -30.43dBm

which is within the production variation.

The maximum conducted output power specified is -29dBm = 0.00126mW

The source-based time-averaging conducted output power

=0.00126mW

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \sqrt{433.92}$ mW

= 22.77mW

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.

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