INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a 10210 (Rock Crushr $^{\text{TM}}$ 2 ASSST) operating at 2.4G Band. The EUT can be powered by DC 9.6V (1 x 9.6V Rechargeable battery). Once use the USB cable charging to the EUT, the wireless function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: 3.0dBm (tolerance: +/- 3dB). The normal conducted output power is 3.0dBm (tolerance: +/- 3dB). Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 100.7 dBµV/m at 3m in the frequency 2424MHz The EIRP = [(FS*D) ^2 / 30] mW = 5.47dBm which is within the production variation.

The maximum conducted output power specified is 6dBm= 3.981mW The source- based time-averaging conducted output power =3.981* Duty cycle mW <3.981 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.424) mW = 9.63 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 4.000ms Effective period of the cycle = 0.4058ms DC = 0.4058ms / 4.000ms = 0.1015 or 10.15%

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