

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Wrist Racers(Graphic Red/Neon Camo Green) operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AAA batteries). 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: 6.5dBm (tolerance: +/- 3dB).

The normal conducted output power is 6.5dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 104.6dB μ V/m at 3m in the frequency 2412MHz

The EIRP = [(FS*D) ^2 / 30] mW = 9.37dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 103.3dB μ V/m at 3m in the frequency 2470MHz

The EIRP = [(FS*D) ^2 / 30] mW = 8.07dBm

which is within the production variation.

The maximum conducted output power specified is 9.5dBm= 8.913mW

The source- based time-averaging conducted output power

=8.913* Duty cycle mW <8.913 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.475) mW

= 9.54 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 = 12.029ms

Effective period of the cycle = 971.0 μ s x1 = 0.971ms

DC =0.971ms / 12.029ms =0.0807 or 8.07%

FCC ID: 2AS9M10290NIK-TX