

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a MMRR223 MM MN Roadster RC 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: 0.58dBi.

The normal radiated output power (e.i.r.p) is: 0.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -0.58dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 96.0dB μ V/m at 3m in the frequency 2462MHz

The EIRP = [(FS*D) ^2 / 30] mW = 0.77dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 94.1dB μ V/m at 3m in the frequency 2418MHz

The EIRP = [(FS*D) ^2 / 30] mW = -1.13dBm
which is within the production variation.

The maximum conducted output power specified is 3dBm= 1.995mW

The source- based time-averaging conducted output power
=1.995mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.462) mW

= 9.56 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.