

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a transceiver for the PEPPA PIG - WALKIE TALKIES operating at 2.4GHz band. It is powered by DC 9.0V (1 x 9.0V 6F22 battery). 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: -1.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -1.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 95.3dB μ V/m at 3m in the frequency 2443MHz

The EIRP = [(FS*D) ^2 / 30] mW = 0.07dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 93.4dB μ V/m at 3m in the frequency 2407MHz

The EIRP = [(FS*D) ^2 / 30] mW = -1.83dBm

which is within the production variation.

The maximum conducted output power specified is 2.0dBm = 1.6mW

The source- based time-averaging conducted output power

= 1.6* Duty cycle mW <1.6 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.477) mW

= 9.53 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 = 23.9855 ms

Effective period of the cycle = 362.3 μ s =0.3623ms

DC = 0.3623ms / 23.9855 ms = 0.0151 or 1.51%

FCC ID: YINJAZWARES10515G