

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Watch Unit) for a RC Watch and Doll set. The sample supplied operated on 44 channels, normally at 2418 - 2462MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 1 x 3.0V Lithium Cell. After switching on the EUT, crying sound will be emitted from the baby doll. The baby doll cheek will turn red when the watch is placed near the doll.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 73.0dB μ V/m at 3m (Peak), 56.5dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (HW2410) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. C1, C2, C3 and L1 act as antenna matching circuit.