

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC baby. The sample supplied operated on 21 channels, normally at 2418 - 2462MHz. The channels are separated as the table below:

2418MHz	2420MHz	2422MHz	2424MHz
2426MHz	2428MHz	2430MHz	2434MHz
2436MHz	2438MHz	2440MHz	2442MHz
2444MHz	2446MHz	2450MHz	2452MHz
2454MHz	2456MHz	2458MHz	2560MHz
2462MHz			

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the EUT can emit light and sound. The baby will response to the EUT, emit light and sound.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 72.3dB μ V/m at 3m (Peak), 43.7dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (TRSF4A020B) acts as voice MCU
2. U2 (HW2578A) acts as modulator and RF power amplifier
3. Y1 acts as 24MHz Oscillator
4. C1, C2 and L1 act as antenna matching circuit
5. SPK1 acts as speaker