

Technical Description

The Equipment Under Test (EUT) is the Baby Swing which includes speaker for audio playing and motor for Swinging. The EUT is a Bluetooth device which operates at frequency range between 2402MHz and 2480MHz. The EUT support 79 channels within the frequency range. The EUT is powered by adaptor Model: KA0601A-0501000USU (Input: 100-240VAC 0.2A 50/60Hz Output: 5VDC 1000mA).

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 74.3dB μ V/m at 3m (Peak), 62.8dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +3/- 9dB

The brief circuit description is listed as follows:

1. IC1 (CA51F152S6B-28) acts as MCU
2. U2 (AC6925A4-QSOP24) acts as Bluetooth module
3. Y1 acts as 24MHz Oscillator
4. L1 act as antenna matching circuit
5. U3 (BY25Q64AS) acts as music storage
6. U4 (AIP1668) acts as LED display driver
7. U5 (LTK8002D) acts as power amplifier
8. U6 (TC8301) acts as motor driver
9. U1 and U7 act as voltage regulator.