

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Bluetooth 5.0 Speaker (Speaker Unit) for a RC Speaker. This sample is Bluetooth 5.0 without supporting 2Mbps data rate. The sample supplied operated on 40 channels, normally at 2402 - 2480MHz. The channels are separated with 2MHz spacing.

Another mode for the Equipment Under Test (EUT) is Bluetooth BDR/EDR. The sample supplied operated on 79 channels, normally at 2402 - 2480MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 1 x 3.7V Rechargeable battery. After switching on the EUT, the speaker will be playing music based on the switches pressed in smartphone controller app.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 96.1dB μ V/m at 3m

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (AC6928B) acts as RF Module
2. U3 (4054) acts as Charging circuit
3. U4 (HT6872) acts as Amplifier Module
4. J5 (MICRO_USB) acts as USB Module
5. Y2 acts as 24MHz Oscillator
6. A2 acts as antenna matching circuit
7. M1 (MIC4013) acts as Microphone