

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz BT Classic Transceiver for a Bluetooth Speaker. 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 Lithium-ion battery. After switching on the EUT, the EUT, the Speaker can be paired up with a smartphone and will be used to play different sound based on the sound received from the paired smartphone.

Antenna Type: Internal, Integral antenna

Antenna Gain: -0.58dBi

Nominal rated field strength is 95.4dB μ V/m at 3m (Peak), 84.5dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (AC6928B) acts as MCU
2. X2 acts as 24MHz Oscillator
3. C12 acts as antenna matching circuit
4. U3 acts as audio power amplifier
5. U6 acts as overcharge protection IC.