

Technical Description

The Equipment Under Test (EUT), is a 2.4GHz Transceiver for an eye mask with Bluetooth. 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. The battery can be charged with a USB cable. After switching on the EUT, the EUT can be paired with a phone to play audio. RF function is disable during charging.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 86.7dBμV/m at 3m (Peak), 82.9dBμV/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (AB5656D) acts as MCU
2. Y1 acts as 26MHz Oscillator
3. T12, C7, L2 act as antenna matching circuit
4. J1 acts as USB port
5. U3 (LP5308) acts as voltage regulator