

## **OPERATIONAL DESCRIPTION**

1. Audio interface network

The audio interface network filters the audio signal received from the MP3, CD or DVD player and adapts the audio level.

2. FM transmitter.

The FM transmitter is based on the 80110C, which is a single chip FM transmitter . The component includes the pre-emphasis circuit, limiter circuit , low pass filter, and a PLL frequency synthesizer. The transmitter is tuned for transmission within the 88.1-89.1 and 106.7-107.9 MHz frequency band.

3. Matching network

The matching network provides impedance matching between the small antennas to the transmitter.

4. Attenuator

The attenuator limits the radiated electric field level from the transmitter to the level allowed by regulations (such as FCC and CE)

5. LED

The LED---LED1, shows the frequency that are operating on the transmitter