BLUETOOTH CIRCUIT DESCRIPTION

The Power Supply Circuit, Bluetooth Module BCM-06, Stereo Audio Power Amplifier, Microphone bias, Status indicating LED and one Multifunction Buttons for power on/off, Pairing, Call control and Volume control etc.

Bluetooth module BCM-06

The BCM-08 is a Class 2 Bluetooth sub-system using BlueCore3-Multimedia External chipset from leading Bluetooth chipset supplier Cambridge Silicon Radio with a maximal output power of less than 4dBm. The module block includes CSR BC03MM IC, Flash memory, Band pass Filter and Crystal for clock. When used with the CSR Bluetooth software stack, it provides a fully compliant Bluetooth system to v1.2 specification for data and voice communications.

The RF circuit includes the antenna matching components and a MMC Antenna AHD1103-244ST01.

Stereo Audio Power Amplifier

The Stereo audio output from the Bluetooth module is routed to the Audio Power Amplifier. The Audio Power Amplifier uses TI solution TPA6112A2. Of delivering 150mW of continuous RMS power per channel into 16-Ω. The gain of the amplifier is adjustable thru a volume control dial.

FM CIRCUIT DESCRIPTION

EMITTER DESCRIPTION

1. Emitter Power Voltage: D.C.12V
2. Frequency: 7.6MHZ
3. Emissive Frequency: 88-108MHZ Modulating manner: FM
4. **Work process:**

After connected and received with Bluetooth, audio signal is input into switching

IC (U7) Then the audio signal is attenuated by RC and enter into the transmuting

IC (U1) F finally this set will produce the FM frequency between 88-108MHZ.