Operational Description

1. The SH52 Bluetooth headset based on CSR BC57F687A05 chipset, It is compliant to Bluetooth v2.1 + EDR specification. It works with a crystal Y1 (26MHz)

References to the document schematic

U101_BC57F687A05 is a single chip Radio and baseband IC for Bluetooth 2.4GHZ systems. it provides Bluetooth RF, baseband and some power regulator functions. It is integrated DC +1.8V and +1.5V power supply.

U1 ATS2301is a MP3 MCU IC

Y2 is a crystal oscillator, provides 32.768kHz clock reference.

The headset has Blue, Yellow and Red indicator lights to show different working state, and has paly,Phone, Volume up, Volume Down buttons to operation the headset.

2. The Signal Path description

When the headset connects to a mobile phone, the built-in MCU will control the RF modem to process the baseband signal, indicate the working state by the LED. There are Multi-function Button, Volume up button and Volume Down button for you to increase the volume or decrease the volume of the speaker.