

## **BTC003 Circuit Description**

### **PART 1—BLUETOOTH MODULE KMBT007B (U1)**

The part is a Bluetooth sub-system using BlueCore5-Multimedia External Chipset (BT Chip) from leading Bluetooth chipset supplier Cambridge Silicon Radio. The BT Chip is a single-chip radio and Baseband IC for Bluetooth 2.4GHz to 2.4835GHz systems, the 26.00MHz Crystal Oscillator Offer external reference clock signal for BT Chip. After the Bluetooth module and antenna build the voice link between the external equipment on frequency 2.4GHz to 2.4835GHz by modulation FHSS/GFSK to avoid the interference in the same band with other equipment.

### **PART 2—VOLTAGE REGULATOR (U3)**

This electric module U3 transforms the voltage which output from the battery to 3.3V, and then power the whole circuit.

### **PART 3—Charge IC (U5)**

The IC U5 is used to control the charging process, to prevent over charged, etc.

### **PART 4—Audio Power Amplifier (U2)**

The IC U2 is used to amplify the audio signal that output from BT chip and driver the loudspeakers.

### **PART 5—Flash Memory (U4)**

The IC U4 is used to storage data such as phone number, contact name, etc.

### **Antenna Description**

<b>Antenna Name</b>	<b>Model(s)/Type(s)</b>	
Antenna	Model/Part Number	PCB layout
	Manufacturer:	K-mate
	Frequency Range	2400MHz—2483.5MHz
	Connector Type/ Maximum Gain	Built in; 0dBi
	Antenna Type/ Pattern	PCB layout
	Measurement:	