

C-8201(FCC) TECHNICAL DESCRIPTION

A. CIRCUIT OPERATION

1. Temperature sensor and humidity sensor.
Provide temperature data for MCU
2. MCU
The micro controller unit (MCU) are encoding and manipulating temperature data.
3. SAW Resonator
Stable RF transmitter Oscillator frequency.
4. RF narrowband modulation .
Convert MCU encoded data to RF OOK modulated signals.
5. LED
Transmit indicator.
6. 433.9MHz band-pass filter
433.9MHz frequency band-pass only .

B. COMPONENT DESCRIPTION

CATEGORY	COMPONENT	NAME	DESCRIPTION
Resonator	433.92MHz	SAW Resonator	Stable RF transmitter Oscillator frequency.
Transistor	2D	RF Transistor	433.92MHz oscillation
Transistor	2D	RF Transistor	433.92MHz buffer.
Band-pass filter	1UH, 3.5T spring coil ,20pf,6pf,22pf	433.9MHz Band-pass filter	433.9MHz Band-pass only
Transistor	2SC1623	L6 or L7	Low battery detect
MCU	TM8722	Micro controller unit	Encoding and manipulating temperature data
Crystal	32.768KHz	3*8 Quartz	Stable MCU master clock
Sensor	CL-HQM3R	Humidity sensor	Provide Humidity data for MCU
Sensor	103AT	Temperature sensor	Provide temperature data for MCU
LED	LED	LED	Transmit indicator

CHUNG' S ELECTRONIC CO.,LTD	
Name	TECHNICAL DESCRIPTION
Model	C8201(FCC)
File No	RF8201
Date	6/7/06

C-8203(FCC) TECHNICAL DESCRIPTION

A. CIRCUIT OPERATION

1. Temperature sensor

Provide temperature data for MCU

2. MCU

The micro controller unit (MCU) are encoding and manipulating temperature data.

3. SAW Resonator

Stable RF transmitter Oscillator frequency.

4. RF transmitter

Convert MCU encoded data to RF OOK modulated signals.

5. LED

Transmit indicator.

6. 433.9MHz band-pass filter

433.9MHz frequency band-pass only .

B. COMPONENT DESCRIPTION

CATEGORY	NUMBER	NAME	DESCRIPTION
Resonator	433.92MHz	SAW Resonator	Stable RF transmitter Oscillator frequency.
Transistor	2D	RF Transistor	433.92MHz oscillation
Transistor	2D	RF Transistor	433.92MHz buffer.
Band-pass filter	1UH, 3.5T spring coil ,20pf,6pf,2 2pf	433.9MHz Band-pass filter	433.9MHz Band-pass filter only
Transistor	2SC1623	L6 or L7	Low battery detect
MCU	TM8722	Micro controller unit	Encoding and manipulating temperature data
Crystal	32.768KHz	3*8 Quartz	Stable MCU master clock
Sensor	103AT	Temperature sensor	Provide temperature data for MCU
LED	LED	LED	Transmit indicator

CHUNG' S ELECTRONIC CO.,LTD	
Name	TECHNICAL DESCRIPTION
Model	C8203(FCC)
File No	RF8203
Date	9/7/06

C-8202(FCC) TECHNICAL DESCRIPTION

A. CIRCUIT OPERATION

1. Temperature sensor and humidity sensor.
Provide temperature data for MCU
2. MCU
The micro controller unit (MCU) are encoding and manipulating temperature data.
3. SAW Resonator
Stable RF transmitter Oscillator frequency.
4. RF narrowband modulation .
Convert MCU encoded data to RF OOK modulated signals.
5. LCD
Display Humidity & Temperature.
6. 433.9MHz band-pass filter
433.9MHz frequency band-pass only .

B. COMPONENT DESCRIPTION

CATEGORY	COMPONENT	NAME	DESCRIPTION
Resonator	433.92MHz	SAW Resonator	Stable RF transmitter Oscillator frequency.
Transistor	2D	RF Transistor	433.92MHz oscillation
Transistor	2D	RF Transistor	433.92MHz buffer.
Band-pass filter	1UH, 3.5T spring coil ,20pf,6pf,22pf	433.9MHz Band-pass filter	433.9MHz Band-pass only
Transistor	2SC1623	L6 or L7	Low battery detect
MCU	TM8722	Micro controller unit	Encoding and manipulating temperature data
Crystal	32.768KHz	3*8 Quartz	Stable MCU master clock
Sensor	CL-HQM3R	Humidity sensor	Provide Humidity data for MCU
Sensor	103AT	Temperature sensor	Provide temperature data for MCU
Display	IS-085202E01	C8102LCD	Display time/temperature/humidity/channel

CHUNG' S ELECTRONIC CO.,LTD	
Name	TECHNICAL DESCRIPTION
Model	C8202(FCC)
File No	RF8202
Date	6/7/06