

C-8102 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. LCD

Display Humidity & Temperature.

B. COMPONENT DESCRIPTION

CATEGORY	NUMBER	NAME	DESCRIPTION
Resonator	433.92MHz	SAW Resonator	Stable RF transmitter Oscillator frequency.
Transistor	2D (Q1)	RF Transistor	433.92MHz modulator
Transistor	2D (Q2)	RF Transistor	433MHz amplifier
Transistor	2SC1623	L6	Low battery detect
MCU	MSM64162A	Micro controller unit	Encoding and manipulating temperature data
Crystal	32.768KHz	3*8 Quartz	Stable MCU master clock
Display	IS-085202E01	C8102LCD (LCD-258)	Display time/temperature/humidity/channel
Sensor	HS-12P	Humidity sensor	Provide Humidity data for MCU
Sensor	103AT	Temperature sensor	Provide temperature data for MCU

CHUNG' S ELECTRONIC CO.,LTD	
Name	TECHNICAL DESCRIPTION
Model	C8102
File No	RF8102-T
Date	20/7/04