

Features

- Four Independent touch keys
- Individual outputs per channel
- Support multi-key sensing
- Sensitivity can be adjusted per channel
- Auto calibration
- Auto drift compensation
- Noise filtering
- 2.7V to 5.5V operating voltage
- Low power consumption, less than 10uA
- I²C compatible interface
- 20-pin SSOP (RoHS Compliant)
- 16-pin QFN 3x3mm (RoHS Compliant)

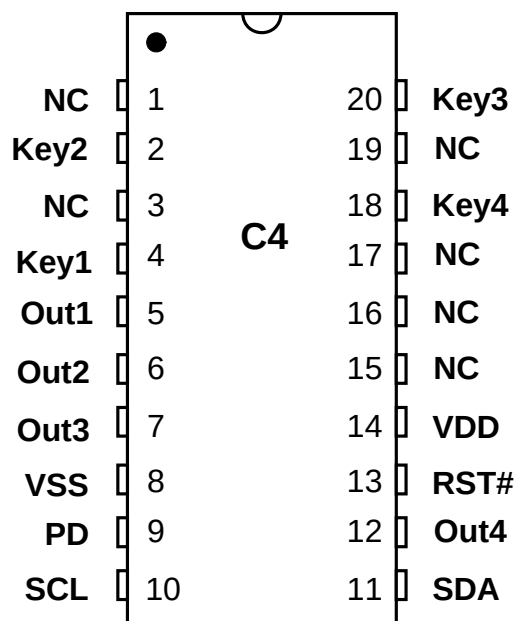
General Description

The C4 4 Key touch sensor IC is capable of detecting near-proximity or touch on four electrodes. It allows electrodes to project independent sense field through any dielectric like glass, plastic, ceramic, and wood.

Applications

- Audio/Video components
 - PC peripherals
 - Home appliance
 - Gaming machine/console
 - Security systems
 - Instruments panels
 - Access system
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Pin Assignment and Package



Pin	Name	Pin Description
1	NC	No connect
2	Kev2	Sense pin 2
3	NC	No connect
4	Kev1	Sense pin 1
5	Out1	Key 1 output
6	Out2	Key 2 output
7	Out3	Key 3 output
8	VSS	Ground
9	PD	Power down, active high
10	SCL	SCL – I ² C clock input
11	SDA	SDA – I ² C open drain data I/O pin
12	Out4	Key 4 output
13	RST#	Reset pin, active low
14	VDD	Power
15	NC	No connect
16	NC	No connect
17	NC	No connect
18	Kev4	Sense pin 4
19	NC	No connect
20	Kev3	Sense pin 3

Overview

The C4 devices are capacitive touch sensor IC designed for touch controls. They include all hardware and signal processing functions necessary to provide stable sensing under a wide variety of conditions. Only a low cost resistor (optional) per channel is required for operation. Figure 1 shows basic circuits for the device.

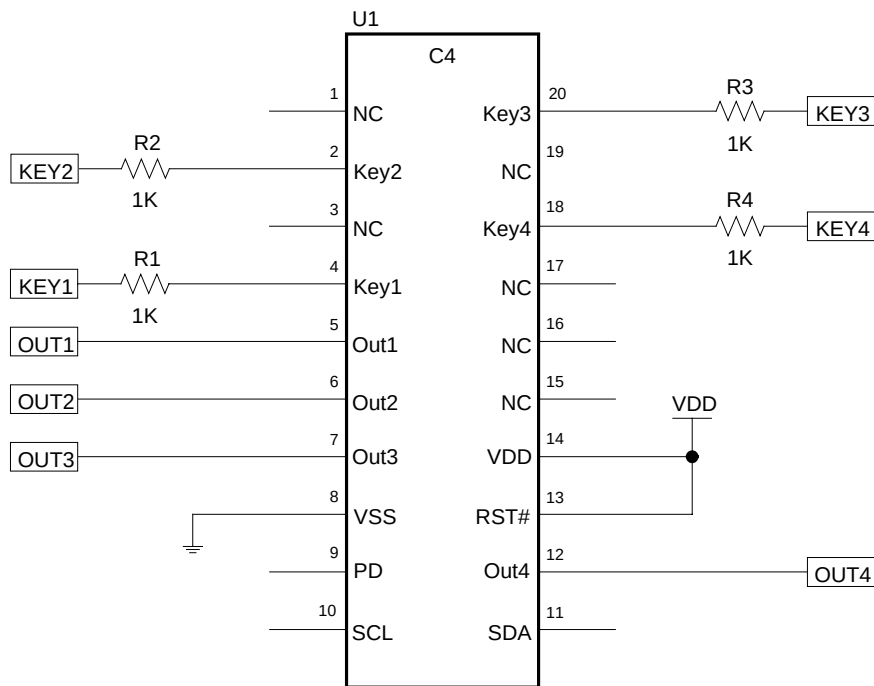


Figure 1. Basic circuits diagram