

## General Description

The ADT2550SXX is a miniaturized low current receiver IC for infrared remote control system.

It has a wide voltage operating such as 2.7~5.5V, a high sensitivity.

Wide operating voltage is very suitable to the hand-held battery operating systems, e.g., electrical toy.

It has 5 trimming cells for the fined adjust of center frequency.

These ICs are capable of accepting a photodiode directly and include many excellent circuit such as a high gain initial amplifier, a gain control amplifier, a limiter, a band pass filter, a detection circuit, two comparator circuits, gain control circuits, integrator circuits, a waveform shaping circuit assembled on a single chip.

## Features

- Wide Operating Supply Voltage 2.7V ~ 5.5 V. (Min. 2.1V operating )
- Low current consumption ( Typ. 370uA@3V, Typ. 430uA@5V )
- Maximum interference safety against VCC noise & light noise
- **Suitable for minimum burst length of 12 pulses per burst.**
- **Continuous ( <1ms pause time) and sony 20bit codes are acceptable.**
- No external components necessary
- Output active low
- Carrier frequency 36 / 37.9 / 40KHz

*\* This specifications are subject to be changed without notice*