

Touchpad for Portable Digital Devices Capacitive Touchpad TC220

Technology to Inspire Innovation



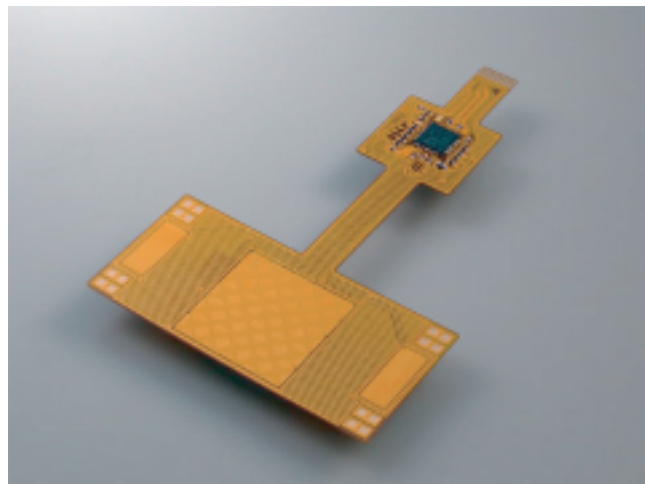
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The TC220 is a customized made-to-order touch sensor optimal for input operation of various portable digital devices. The TC220 can realize a thinner pointing device than conventional one, and the sensor can be used as a touchpad that can operate 2-dimensionally despite its small size.

The sensor electrode and the detection circuit are formed on the same film base. The TC220 has a superior durability because it can be mounted inside the case and uses no mechanical parts. It is possible to design the optimal sensor size for the thickness and decoration of the case, and to optimize the operation sensitivity for the mounting environment.

The detection circuit includes an original 1-chip controller, and the signal outputted through serial interface (I²C or SPI). The controller also provides power save mode that is necessary for portable devices.



The image shows a prototype.

Features

- Small electrode design and touchpad operation (mouse cursor control) is possible.
- Realizes a thinner pointing device than conventional one and stylish design.
- Optimizing the operation sensitivity for the mounting environment is possible.
- Uses no mechanical parts and provides a superior durability.
- Power save mode is a standard feature.

Reference Specifications

| | |
|-------------------|------------------------------------|
| Operating Voltage | 2.7 - 5.0 V |
| Operating Current | 1.6 mA(TYP.) at VDD = 2.8 V |
| Standby Current | 60 micro Amp.(TYP.) at VDD = 2.8 V |
| Interface | I ² C, SPI |
| Output | Touch coordinate data |

Customized made-to-order Product

Applications

- Mobile Phone, Smartphone, DSC, DVC

JAE is of ISO 9001 (Quality management and quality assurance standards) and ISO 14001 (Environmental management systems) certified.



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