



Product Description

Membrane Keyboard Switch is a conductive keypad panel with unique cosmetic design. We offer full range designs of Membrane Keyboard Switches:

- ① Flat and all embossed key type with either metal dome or mylar dome.
- ② SMT components, LED back light effect, EL back light.
- ③ Jumper wire, backlit effect type.
- ④ Selective texture with choices of transparent, velvet, and colored display window.
- ⑤ EMI, RFI, or ESD shielding.
- ⑥ Tail termination - either male or female connectors.
- ⑦ Waterproof type.
- ⑧ Through-hole type.
- ⑨ ITO touch screen embedded Membrane Switch.

Advantage

- ① Easy installation.
- ② Low cost.
- ③ Excellent sealing.
- ④ Can be custom-made to your need.

Main

Information application products, remote control, telecommunication equipment, OA equipment, household appliance, medical instruments, measuring instruments, toys...etc.

Material

Polyester is used for both circuit layers and overlay layers. High temp and corrosion resistant, the flexibility and mechanism are good as well as high reliability. It is mostly suitable used in products where the application environment are atrocious or products are emboss required. Polycarbonate is usually used for overlays. It has more competitive price than PET so mostly used in products that styles improved frequently, such as microwave oven and toys, etc.

Standard Specification

Electrical

Maximum Circuit Rating	35V(DC), 100mA 1W
Contact Resistance	10Ω~500Ω(depending on trace length & material used).
Insulation Resistance	≥100M Ω at 100V
Dielectric Withstand	250 V Rms (50~60 Hz 1 min.)
Contact Bounce	≤5ms
Life Expectancy	Flat type = 0.1 to 0.5mm, Tactile type = 0.6 to 1.5mm

Mechanical

Actuation Force	Flat type = 57 to 284 g (2 to 10 oz), Tactile type = 170 to 397 g (6 to 14 oz)
Switch Stroke	Flat type = 0.1 to 0.5mm, Tactile type = 0.6 to 1.5mm

Environmental

Operation Temperature	Flat/Metal dome: -20 °C to +80 °C, Poly dome: -20 °C to +55 °C
Storage Temperature	Flat/Metal dome: -40 °C to +80 °C, Poly dome: -40 °C to +60 °C
Humidity	40 °C, 90% for 240 hours
Vibration	20 G's0 max, (10-200 Hz、MIL-STD-202、M204、Condition B)