

Tactile Sheet

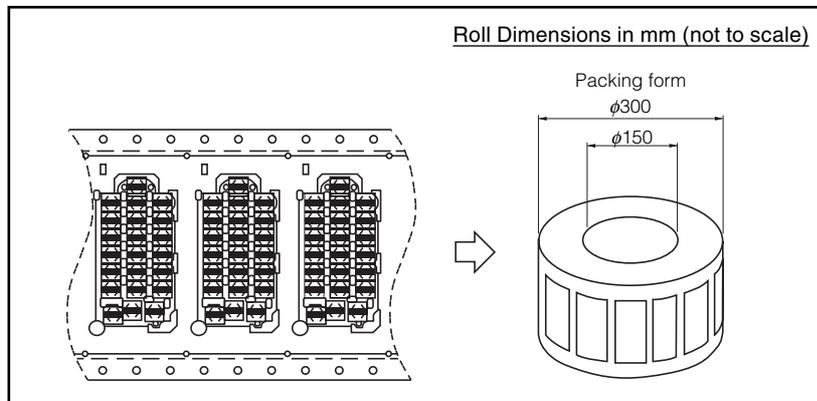
Type: **ESP**

The part of switch is designed for thin and small electronic devices such as mobile phones.
Creates thin push switches when combined with fixed contacts on a PWB.



■ Features

- Resistant to environmental degradation:
 - 1) Diaphragms with a center hole ensure contact stability.
 - 2) Silver-plated diaphragms achieve high contact stability.
- Metal diaphragm creates a thin profile and lightweight.
- Sharp click-key operational feel.
- SMD available by using roll packaging (refer to the diagram below).



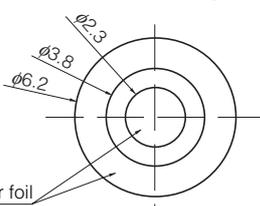
■ Specifications

Diaphragm		ϕ 5	ϕ 4
Mechanical	Operating Force	1.0 N, 1.6 N, 2.0 N	1.0 N, 1.6 N, 2.0 N
	Push Travel	0.25 mm \pm 0.10 mm	0.15 mm \pm 0.08 mm
	Height of Diaphragm: HD (Including an actuator)	0.35 mm \pm 0.08 mm (0.58 mm \pm 0.2 mm)	0.28 mm \pm 0.08 mm (0.51 mm \pm 0.2 mm)
Endurance	Operating Life	500000 cycles	500000 cycles
	Operating Temperature Range	-20 °C to +70 °C	-20 °C to +70 °C
	Storage Temperature Range	-40 °C to +85 °C	-40 °C to +85 °C

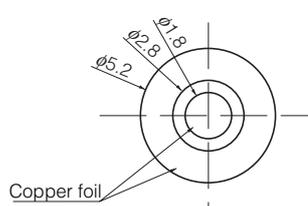
Note: The above specifications are typical.

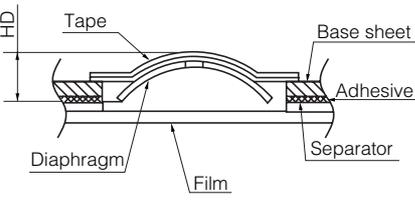
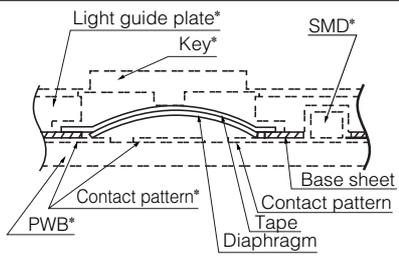
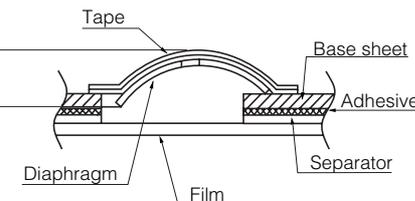
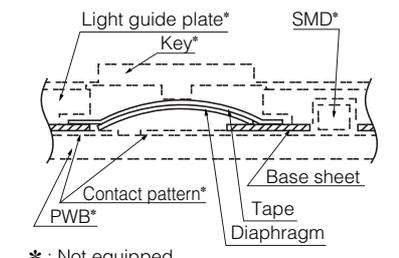
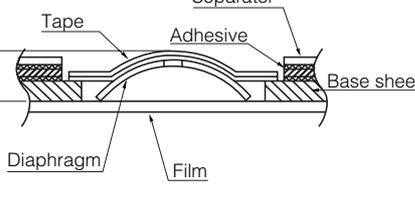
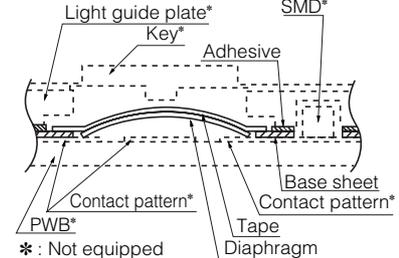
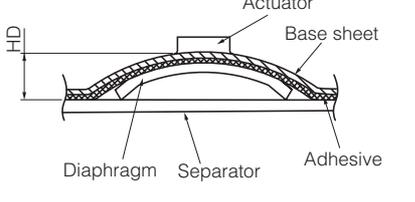
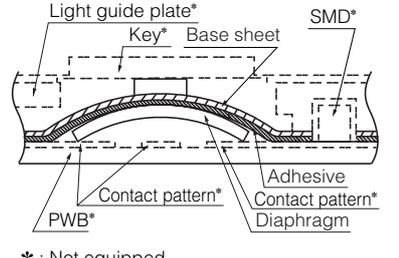
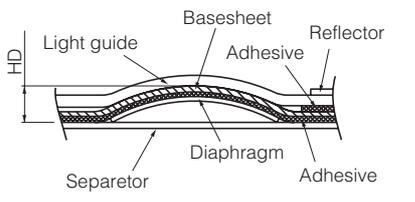
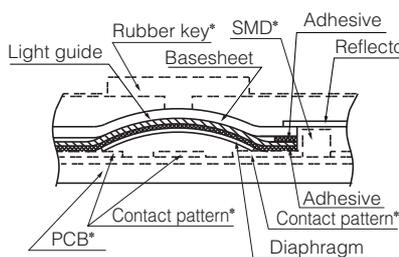
■ Recommended Contact Pattern

Surface treatment: Ni plating + Au plating



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Appearance	Structure	Reference (usage)
<p>No. 1</p> <p>Basic Type</p>		 <p>* : Not equipped</p>
<p>No. 2</p> <p>Flap Type</p> <p>Application Available to protect the contact circuit path on PWB</p>		 <p>* : Not equipped</p>
<p>No. 3</p> <p>Above-Adhesive</p> <p>Application Adhesive with key-pad</p>		 <p>* : Not equipped</p>
<p>No. 4</p> <p>Actuator Type</p> <p>Application Prevents displacement of the set key from degrading the operational feel.</p>		 <p>* : Not equipped</p>
<p>No. 5</p> <p>Light Guide Type</p> <p>Application Equipped with a light-guide film (0.2-mm thick) for uniform high-intensity illumination</p>		 <p>* : Not equipped</p>

* Height of Diaphragm HD: Major specifications column reference