

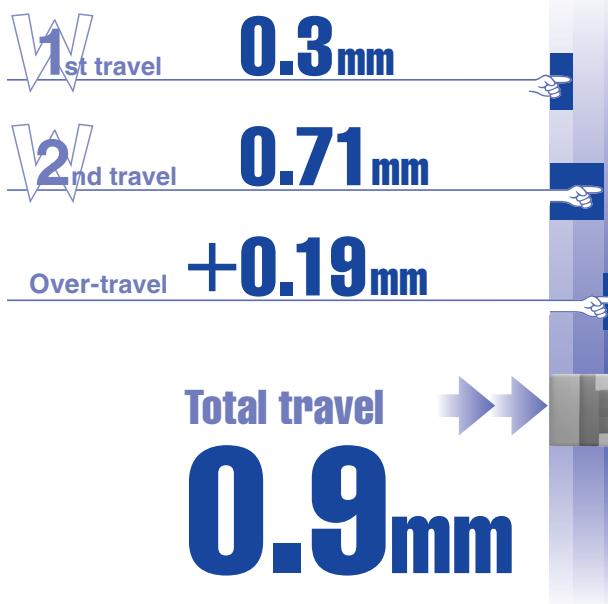
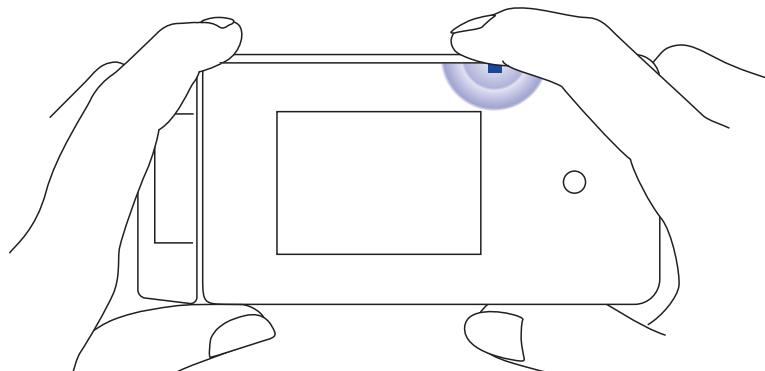
# Push Switch Horizontal Type Double-Action

SPEE Series

**ALPS®**

New  
2007

*Long travel and double-action with excellent shutter feeling.*



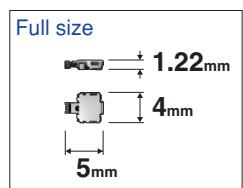
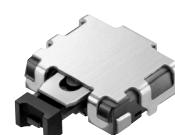
supports thinner sets

**1.22**<sup>thickness</sup>  
**mm**



**Horizontal type - mountable on a main board for simplified design.**

- 4×5mm outer dimension with 1.22mm height, suited for high-density mounting.
- Double-action - push once to turn on the first position, push again to turn on the second position.
- Achieves not only 0.9mm total travel for improved operational feeling as a shutter switch, but also 0.19mm over-travel.
- Available for reflow soldering



We offer a shutter switch that improves the shutter feeling and contributes to thinner sets.

# Push Switch Horizontal Type Double-Action

SPEE Series



**Horizontal push type to achieve 1.22mm thickness and easy-to-use long travel of 0.9mm.**

## Applications

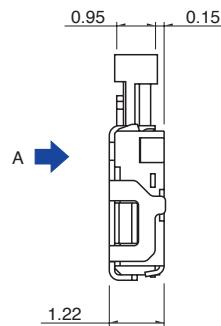
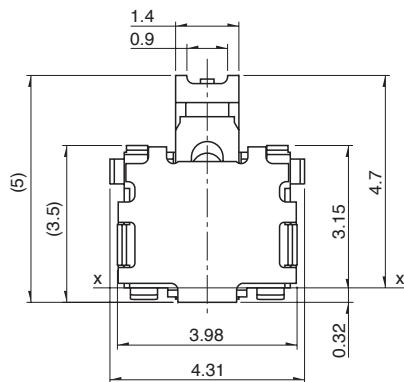
**Shutter switch for mobile phones with cameras, digital cameras, digital camcorders, small mobile devices, etc.**

## Typical Specifications

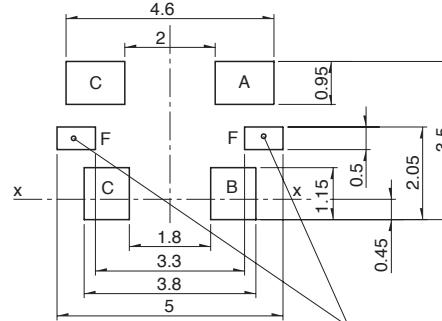
Items	Specifications
Rating (max./min.) (Resistive load)	20mA 5V DC/100μA 3V DC
Travel	1st: 0.3mm 2nd: 0.71mm
Operating force	1st: 1.75N 2nd: 1.1N
Operating life	100,000 cycles

## Dimensions

Unit:mm



PC board mounting hole dimensions  
(Viewed from the direction A)

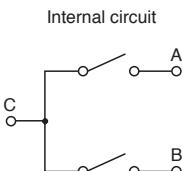


F terminals are soldering terminals for switch fixing only.  
Do not connect with other circuits.

## Output chart

	A	B
Initial position	—	—
First position	○	—
Second position	—	○
Full travel	—	○

## Circuit Diagram



## Cautions for Use

- Specification indicated in this catalog is outline only. When employing the product, use of an officially authorized specification for supply contract is recommended.
- Unless specifically indicated otherwise, products in this catalog have been designed and manufactured for use in ordinary electronic equipment and devices, such as AV equipment, electric home appliances, office machines, and communications equipment. Equipment manufacturers are consequently advised that when these products are planned for equipment that requires a high degree of safety and reliability, especially those apparatuses like medical equipment, aviation and aircraft equipment, space equipment, and burglar alarm equipment, the manufacturers should assure equipment safety by providing protection circuits and redundant circuitry and should fully study the suitability of such products for the intended equipment.
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- Please contact us for any enquiries and queries on our products and their uses.
- This catalog is valid till the end of December 2007.

## Inquiries about Products

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