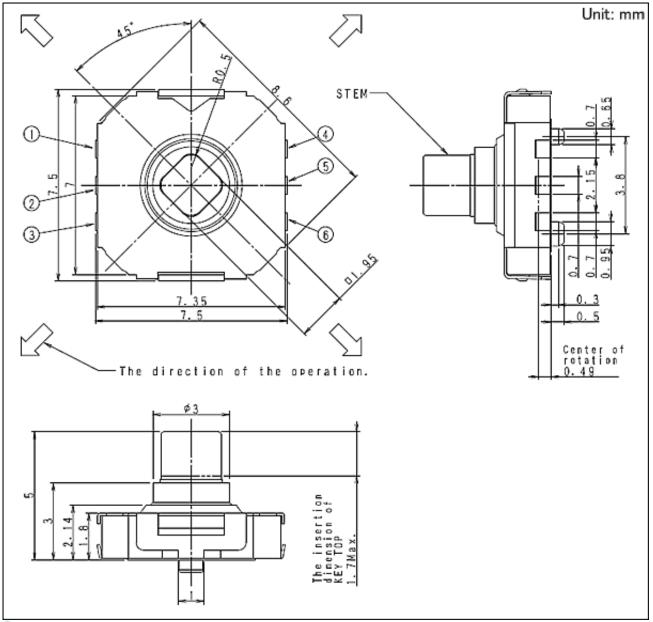


ALPS Manufacturer of Electronic Components/Parts Catalog

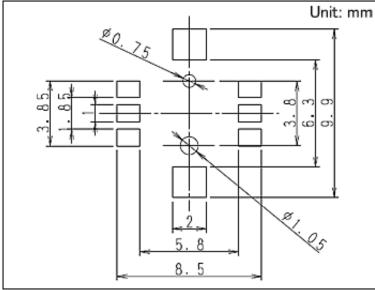
4-direction Type with Center-push Function (Surface Mount) SKRH Series

Detail								
Part number				Sł	SKRHABE010			
Туре			Su	Surface mount				
Operating force		4-direction		1.2	1.23N			
		Center push			2.35N			
Travel		4-direction			0.25mm			
		Center push			0.15mm			
Operating life (5mA 5V DC)			20	200,000 cycles for each direction				
Initial contact resistance					500mΩ max.			
Stem color					Black			
Guide bosses				Wi	With			
Operating temperature range				-40	-40℃ to +85℃			
Ratings (max.)/(min.) (Resistive load)			50	50mA 12V DC/10µA 1V DC				
	Directional resolution			4-direction				
Electrical performance	Insulation resistance			100MΩ min. 100V DC				
	Voltage proof			100V AC for 1 minute				
	Directional operating force			1.23±0.69N				
Mechanical performance	Push operating force				2.35±0.69N			
	Actuator strength		Operating direction	29	.4N			
Durability	Operating life		Center push	20	0,000 cycles			
	Cold			-40	-40±2℃ for 96h			
Environmental performance	Dry heat			90±2°C for 96h				
	Damp heat			60	60±2°C, 90 to 95%RH for 96h			
Minimum order unit (pcs.)		Japan			1,300			
		Export			1,300			
3D CAD (STEP)								
Certificate of Compliance	to RoHS regul	ations						

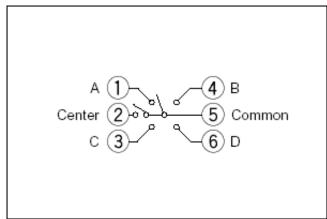
Dimensions



Land Dimensions

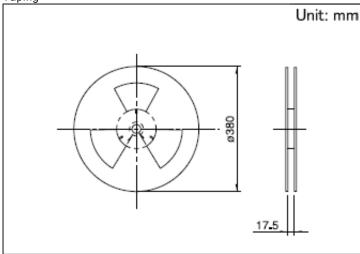


Viewed from mounting face



Packing Specifications

Taping



	1 reel	1,300	
Number of packages (pcs.)	1 case / Japan	10,400	
	1 case / export packing	10,400	
Tape width	16		
Export package meas	401×401×214		

Soldering Condition

Example of Reflow Soldering Condition

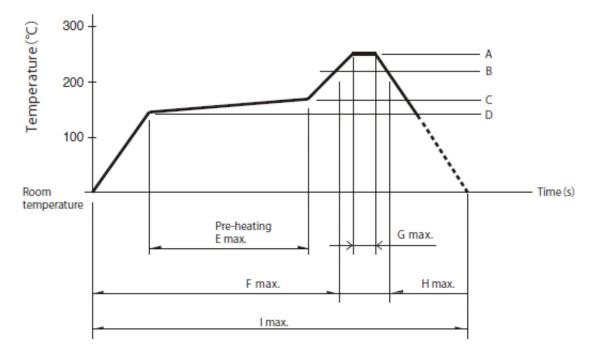
1. Heating method:

Double heating method with infrared heater.

2. Temperature measurement:

Thermocouple 0.1 to 0.2 Φ CA (K) or CC (T) at solder joints (copper foil surface). A heat resisting tape should be used to fix thermocouple.

3. Temperature profile



A	В	С	D	E		G	Н	I	No. of reflows
260℃	230℃	180℃	150℃	2 min.	-	-	40s	-	1 time

(1) The condition mentioned above is the temperature on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.

(2) Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

Reference for Hand Soldering

Tip temperature	350±5℃
Soldering time	3s max.
No. of solders	1 time

» NOTE

Notes are common to this series/models.

- 1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
- 2. 4-directional operating force and travel are measured at 4.3mm height from the bottom of the sw itch.
- 3. Please place purchase orders for taping products per minimum order unit (1 reel or a case).

Inquiries about Products

For more information please contact: Products Information Center. 1-7, Yukigaya-otsukamachi, Ota-ku, Tokyo, 145-8501, Japan

Phone: +81 (3) 5499-8154

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