Compact switch with contact sealing structure, also available with ground terminal





Typical Specifications		
Items	Specifications	
Rating (max.)	50mA 12V DC	
Rating (min.)	10µA 1V DC	
Initial contact resistance	500mΩ max.	
Travel (mm)	0.25	

Product Line

Тор	push	type
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Product No.	Operating force	Operating direction	Operating life	Minimum order unit (pcs.)		
1100002110.	operating force		(5mA 5V DC)	Japan	Export	
SKQYACE010	0.98N			3.000	3.000	
SKQYAAE010	1.57N	Top push	50,000 cycles			
SKQYABE010	2.55N	TOP pasin	30,000 Cycles	3,000	3,000	
SKQYAFE010	3.14N					

With ground terminal type

Product No.	Operating force	Operating direction	Operating life	Minimum order unit (pcs.)		
	Operating force	Operating direction	(5mA 5V DC)	Japan	Export	
SKQYPCE010	0.98N		50,000 cycles	3,000	3,000	
SKQYPAE010	1.57N	Top push				
SKQYPBE010	2.55N	TOP Push				
SKQYPDE010	3.14N					

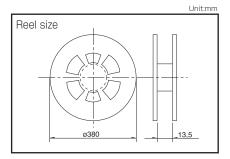
Packing Specifications

Taping

Number of packages (pcs.)			Tape width	Export package
1 reel	1 case / Japan	1 case / export packing	(mm)	measurements (mm)
3,000	30,000	30,000	12	401×401×214

Note

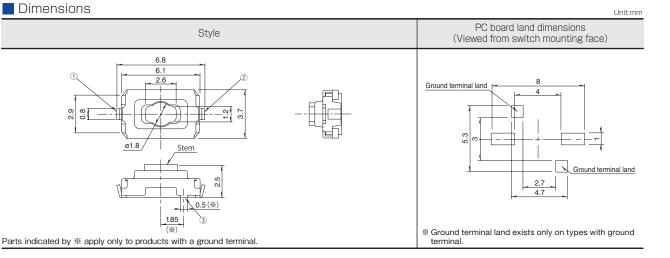
For reels of 330mm diameter, please inquire.



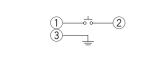




SKQY 6.1 × 3.7mm Compact High-speed Mounting (Surface Mount Type)



Circuit Diagram



Parts indicated by $(\widehat{\textbf{3}})$ apply only to products with a ground terminal.



TACT Switch[™] List of Varieties

	Туре					eeling Type			
	Series	SKTH	SKRP	SKQM	Surfac	e Mount	SKST	SKRA	SKHM
			SKRP	SKQIVI	SKQT	5K5U	5421	SKRA	SKHIW
	Photo	Sant				Cart .		Ser.	N.S.
	Features	Compact size	High operation force Compact size	Comp	act size		Middle trave	l	_
	Water-proof	_	_	_	_	•	_	0	_
	Dust-proof	•	_	_	_	•	_	0	_
	IP standard	_	_	_	_	67 equivalency	_	67 equivalency	_
Operatir	Top push	•	•	٠	•	•	٠	•	•
directio		_	_	_	_	_	_	_	_
	W	3.5	4.2	6	6.1	5.3	8.5		6.2
Dimensio (mm)	ons D	3.2	3.2	3.5	3.7	5.4	8.5	- 🗌 6.2	6.5
(11111)	Н	1.8/2.5	2.5	4.3/5	2.5	3.85	3.95	3.5/5.2	3.1
Operatio force coverag	2N to 3N	1	Ļ	Ţ	Į	\$	¢		Ţ
	Travel (mm)	0.12	0.2	0	.25	0.7	0.9	See the relevant pages for respective product descriptions	0.25
G	round terminal	_	_	—	0		_	_	•
Operatin	ng temperature range				–40℃ to +90	D°C			-40°C to +85°
A	utomotive use	•	•	٠	•	•	٠	0	_
	Life Cycle	2	*3	* 2			2	*3	*3
	Rating (max.) (Resistive load)	25mA 16V DC	50mA 16V DC	50mA	12V DC	50mA 1	6V DC	50mA 1	I2V DC
Electrical	Rating (min.) (Resistive load)				10µA	A IV DC			
performance	Insulation resistance				100MΩ min.	100V DC 1min.			
	Voltage proof	100V AC 1min.	100V AC 1min. 250V AC 1min.						
	Vibration	0 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively							
Durability	Lifetime			Shall be in	accordance w	ith individual spe	cifications.		
	Cold	-40℃ 96h	-40℃ 1,000h	-40	°C 96h		-40℃ 1,000	n	-40°C 96h
Environmental performance	Dry heat	90°C 96h	90°C 1,000h	90°	C 96h		90°C 1,000h	1	90°C 96h
	Damp heat	60°C, 90 to 95%RH 96h	60°C, 90 to 95%RH 1,000h	60℃, 90 to	95%RH 96h	60°C, 9	0 to 95%RH	1,000h	60°C, 90 to 95%RH 961
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D : Depth. The most outer dimension excluding terminal portion.

H : Height. The minimum dimension if there are variances.

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 TACT Switch[™] Cautions
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Notes

1. The automotive operating temperature range to be individually discussed upon request.

2. • Indicates applicability to all products in the series, while \bigcirc indicates applicability to some products in the series.

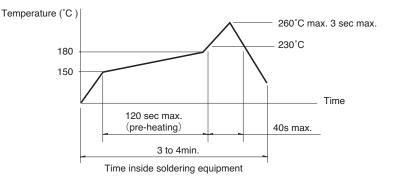




Condition for Reflow

Available for Surface Mount Type.

- 1. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 CA (K) or CC (T) at solder joints (copper foil surface) A heat resistive tape should be used to fix thermocouple.
- 2. Temperature profile



Notes

- 1. The above temperature shall be measured of the top of switch. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the material, size, thickness of PC boards and others. 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.

Conditions for Auto-dip

Available for Snap-in Type and Radial Type.

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKHH, SKPD Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 110°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKQJ, SKQK, SKEG Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100 $\ensuremath{\mathbb{C}}$ max.
Preheating time	45s max.
Soldering temperature	255°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

Notes

1. Prevent flux penetration from the top side of the TACT Switch[™].

- 2. Switch terminals and a PC board should not be coated with flux prior to soldering.
- 3. The second soldering should be done after the switch is stable with normal temperature.
- 4. Use the flux with a specific gravity of min 0.81.
- (EC-19S-8 by TAMURA Corporation, or equivalents.)

Manual Soldering

	<u> </u>
Items	Condition
Soldering temperature	350°C max.
Duration of soldering	Зs max.
Capacity of soldering iron	60W max.

SKHH, SKHW, SKRG, SKPD Series

Items	Condition
Soldering temperature	360°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

SKTD, SKTG, SKQJ, SKQK, SKEG Series

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	Зs max.
Capacity of soldering iron	20W max.

