

Directional Switches

ALPS 4-DIRECTIONAL SWITCHES WITH CENTER PUSH

- Octagonal shape contributes to smaller mounting space
- Reflow solderable
- Tape and reel packaging
- Rating: 50mA @ 12VDC
- 4-directional/center push travel: 0.25mm/0.15mm
- Portable audio devices
- Digital cameras and video cameras
- Cellular phones and PDA's



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Alps Part No.	Fig.	Oper. Force Dir./Cntr Push	Guide Bosses	Operating Life	Price Each			
						1	50	100	500
688-SKRHAB	SKRHAB	A	1.23N/2.35N	Yes	200,000	4.98	3.86	3.49	2.87
688-SKRHAD	SKRHAD	A	1.2N/2.35N	Yes	1,000,000	5.38	3.77	3.10	2.42

ALPS 4-DIRECTIONAL SWITCHES WITH CENTER PUSH

- Reflow solderable
- Surface mount type on tape and reel packaging
- Rating: 50mA @ 12VDC
- Tactile feedback
- Operations of various multi-functional electronic equipment



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MOUSER STOCK NO.	Alps Part No.	Fig.	Oper. Force Dir./Cntr Push	Guide Bosses	Operating Life	Price Each			
						1	50	100	500
Snap-In Type									
688-SKQUAA	SKQUAA	B	1.57N/---	0.35mm/---	50,000	.84	.78	.75	.58
688-SKQUCA	SKQUCA	C	1.57N/3.14N	0.4mm/0.2mm	100,000	2.70	2.48	2.20	1.51
Surface Mount Type									
688-SKQUBA	SKQUBA	D	1.57N/---	0.35mm/---	50,000	2.28	2.10	1.92	1.68
688-SKQUDB	SKQUDB	E	1.57N/3.14N	0.4mm/0.2mm	100,000	3.12	1.98	1.34	1.09

ALPS HORIZONTAL TYPE SEESAW AND PUSH OPERATION SWITCHES

- Single knob allows CW, CCW, and push operations
- Lever Color: Black except for SLLB120200 and SLLB220200 which are gray
- Tape and reel packaging
- Rating: 10mA @ 5VDC
- Lever/Push function operating force: 0.65±0.3N/2±1N
- Operating life: 100,000 cycles
- For selecting menus of PDA's, mobile phones, laptop computers, and electronic organizers
- For selecting menus of remote controllers



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MOUSER STOCK NO.	Alps Part No.	Fig.	Location Lug	Push-On Switch	Push Oper. Travel	Price Each			
						1	25	50	100
688-SLLB120100	SLLB120100	F	Yes	Yes	0.85 mm	2.70	2.48	2.27	2.00
688-SLLB120200	SLLB120200	G	Yes	Yes	0.85 mm	2.70	2.48	2.27	2.00
688-SLLB120300	SLLB120300	G	Yes	Yes	0.85 mm	2.70	2.48	2.27	2.00
688-SLLB510100	SLLB510100	H	Yes	No	0.7 mm	2.88	2.65	2.42	2.13
688-SLLB510200	SLLB510200	H	No	No	0.7 mm	2.88	2.65	2.42	2.13

ALPS STICK CONTROLLERS

- Ideal for fingertip operation
- Compact design
- Lever return mechanism
- Resistance taper: 0B
- Total resistance: 10KW
- Operating force: 5.2±2.6N
- Travel: 0.5mm
- Game and remote controllers

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MOUSER STOCK NO.	Alps Part No.	Fig.	Center Push	Potentiometer Rating	Center Push Rating	Price Each				
						1	25	50	100	200
688-RKJXK122000D	RKJXK122000D	I	No	0.0125W	50mA @ 12VDC	6.68	6.14	5.61	4.94	4.67
688-RKJXK122400Y	RKJXK122400Y	J	Yes	0.0125W	50mA @ 12VDC	7.13	6.56	5.99	5.27	4.99

ALPS 8-DIRECTIONAL SWITCH WITH CENTER PUSH

- Compact, low profile
- Uniform operating force in any direction
- Rating: 10mA @ 5VDC
- Operating life: RKJXL=100,000 cycles; RKJXS=500,000 cycles
- Controlling cursors in car navigation systems
- Control of office and AV equipment



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MOUSER STOCK NO.	Alps Part No.	Fig.	Operating Force		Operating Angle (Lever)	Travel (Push)	Price Each				
			Direction	Center Push			1	25	50	100	200
688-RKJXL100401V	RKJXL100401V	K	10±7mN·m	4.5±1N	12±3°	0.2mm	5.20	4.92	4.49	3.95	3.74

G&K TPA SERIES MULTIDIRECTION SMT NAVIGATION SWITCH

- Features:**
- One touch, 5 way switching
 - Distinctive tactile feel for scanning and select functions
 - Normally open momentary contacts
 - Push down to select possible in any position
 - Optional pegs for improved mechanical strength and easier PCB positioning

- Applications:**
- Electronic devices requiring direct control on LCD display
 - MP3 player
 - Bluetooth Headset
 - Digital cameras
 - GPS navigation systems
 - Home entertainment systems
 - Security



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MOUSER STOCK NO.	Alps Part No.	Fig.	Navigation Select	Actuation Force	Contact Material	Termination	Price Each		
							1	25	50
611-TPA511GLFS	TPA511GLFS	L	Scanning 4 directions with selection	1.8 N scanning, 4 N section	Silver	Gulling	1.39	1.30	1.25

DIMENSIONS: mm

A: Top view of a 4-directional switch with center push, showing a square body with a central knob and four pins. Dimensions: 7.5 x 7.5 mm body, 7.5 mm pin spacing, 7.1 mm height.

B: Side view of a 4-directional switch with center push. Dimensions: 7.1 mm height, 3.15 mm pin height, 10 mm pin spacing.

C: Top view of a 4-directional switch with center push, showing a square body with a central knob and four pins. Dimensions: 10 mm body width, 3.15 mm pin height, 10 mm pin spacing.

D: Side view of a 4-directional switch with center push. Dimensions: 7.1 mm height, 3.15 mm pin height, 10 mm pin spacing.

E: Top view of a horizontal type seesaw and push operation switch. Dimensions: 8.6 mm height, 3.15 mm pin height, 10 mm pin spacing.

F: Side view of a horizontal type seesaw and push operation switch. Dimensions: 11.3 mm height, 8 mm knob width, 11.8 mm base width, 3 mm pin spacing.

G: Top view of a horizontal type seesaw and push operation switch. Dimensions: 11.4 mm height, 11.8 mm base width, 2.5 mm pin spacing.

H: Side view of a horizontal type seesaw and push operation switch. Dimensions: 8.8 mm height, 9.5 mm base width, 2.2 mm pin spacing.

I: Top view of an 8-directional switch with center push. Dimensions: 22.7 mm body width, 20.7 mm body height, 12.9 mm pin spacing, 60° operating angle.

J: Side view of an 8-directional switch with center push. Dimensions: 25.4 mm height, 20.7 mm body height, 12.9 mm pin spacing, 60° operating angle.

K: Top view of a G&K TPA series multidirection SMT navigation switch. Dimensions: 13.4 mm height, 15 mm body width, 24° operating angle.

L: Side view of a G&K TPA series multidirection SMT navigation switch. Dimensions: 157 mm height, 134 mm body width, 106 mm pin spacing, 315 mm total width.

Directional Switches