

C&K introduces a uniquely sealed sub-miniature slide switch that is process compatible. The ES Series offers an internal o-ring and epoxy base seal that protects the switch from wave and reflow soldering as well as cleaning processes. The compact design of these s lide switches make them ideal for applications where space is limited. A variety of models are available including surface mount, thru-hole and right angle.

Features

No boot seal required!

- Sealed construction, internal o-ring, epoxy base seal
- Process compatible withstands wave & reflow soldering and cleaning processes
- High temperature materials (UL 94V-0) for processing flexibility
- Compact size saves PCB space
- Tin-lead alloy coats all sides of terminals for solder joint integrity

Applications

- Computers
- Modems
- **Telecommunication devices**
- Test equipment

C&K's ES Series Sealed Sub-miniature Slide Switches complements the broadest line of sub-miniature switches in the industry. For additional information, free samples or our latest catalog, call today. Or make your request online at www.ckcorp.com.

Tel: (800) 635-5936 Fax: (617) 926-6846

Web Site: www.ckcorp.com



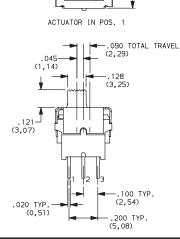
® C&K Components, Inc. 57 Stanley Avenue Watertown, MA 02472-4802

The Primary Source Worldwide®



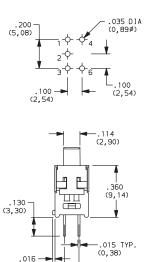
Sealed Sub-miniature Slide Switches





-.395-(10,03)

-.237 (6,02)



.100 TYP.

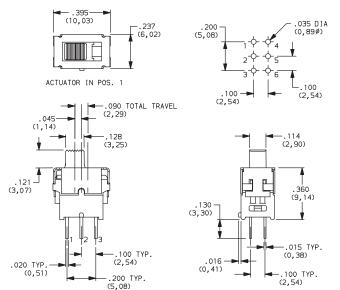
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	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
MODEL NO.	4	4	4
ES01MCKE	ON	NONE	ON
ES03MCKE	ON	OFF	ON
CONN. TERMINALS	2-3	OPEN	2-1
SCHEMATIC	€2 (COMM)		
SPDT	1 ● \●3		
ES02MCKE	ON	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1
SCHEMATIC		1 • • 3	
SPST			

SPST & SPDT Models with "C" thru-hole terminals







(5,08)

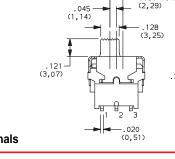
-.100 (2**,**54)

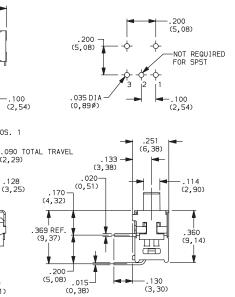
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ACTUATOR IN POS. 1

	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
MODEL NO.	_	4	_
ES21MCKE	ON	NONE	ON
ES23MCKE	ON	OFF	ON
CONN. TERMINALS	2-3, 5-6	OPEN	2-1,5-4
SCHEMATIC	Q 2 (COMM)	€2 (COMM)
DPDT	1 • \•	3 4 ●	● 6
ES22MCKE	ON	NONE	ON
CONN. TERMINALS	OPEN	N/A	3 - 1, 6 - 4
SCHEMATIC	9 3		9 6
DPST	1 •/	4 •/	′





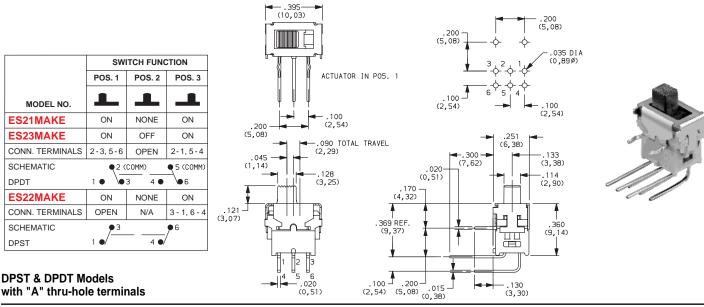


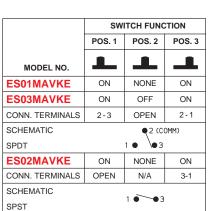
	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
MODEL NO.	4	4	_
ES01MAKE	ON	NONE	ON
ES03MAKE	ON	OFF	ON
CONN. TERMINALS	2-3	OPEN	2-1
SCHEMATIC	€2 (COMM)		
SPDT	1 ● \ ●3		
ES02MAKE	ON	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1
SCHEMATIC		1 • 3	
SPST		3	

SPST & SPDT Models with "A" thru-hole terminals

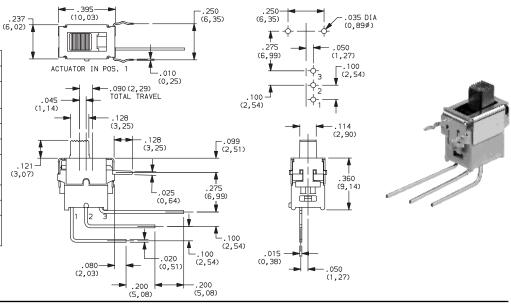


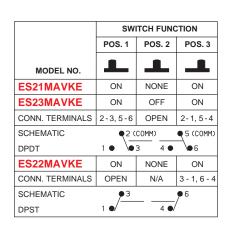
Sealed Sub-miniature Slide Switches

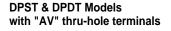


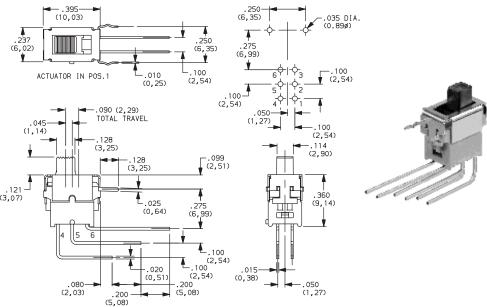


SPST & SPDT Models with "AV" thru-hole terminals



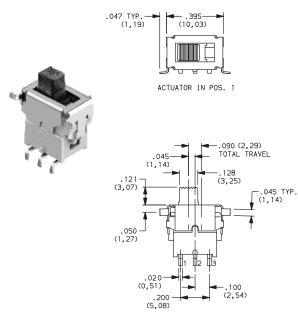


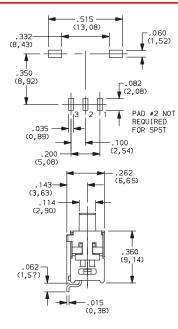






Sealed Sub-miniature Slide Switches





SWITCH FUNCTION			
POS. 1	POS. 2	POS. 3	
1		4	
ON	NONE	ON	
ON	OFF	ON	
2-3	OPEN	2-1	
€2 (COMM)			
	1 • \•3		
ON	NONE	ON	
OPEN	N/A	3-1	
	1 3		
	POS. 1 ON ON 2-3	ON NONE ON OFF 2-3 OPEN ON NONE ON NONE	

SPST & SPDT Models with "SA" surface mount terminals

Specifications

CONTACT RATING: 0.4 VA max. @ 20 V AC or DC max. MECHANICAL & ELECTRICAL LIFE: 40,000 make-and-break

cycles at full load.

CONTACT RESISTANCE: 50 milliohms max. initial at 2-4 V DC, 1 00 mA.

INSULATION RESISTANCE: 10°ohms min. DIELECTRIC STRENGTH: 500 V RMS min. OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD 202F method 208D, or

EIA RS-186E method 9.

ESD ENDURANCE: 8 kV min. (EIA 545).

PACKAGING: Standard packaging is anti-static trays.

Optional tape & reel packaging available for surface mount models, consult factory.

Materials

HOUSING & BASE: Nylon (UL 94V-0).
ACTUATOR: LCP (UL 94V-0) black, std.

SURFACE PLATE: Stainless steel with tin plate.

MOVABLE CONTACTS: Phosphor bronze with gold plate over nickel plate.

STATIONARY CONTACTS: Copper alloy with gold plate over nickel plate.

TERMINALS: Copper alloy with tin-lead alloy over nickel plate.

All terminals insert molded.

TERMINAL SEAL: Epoxy.

Other Slide Switches Available



- 1000 Series Miniature Slide Switches
- GS Series Ultra-miniature Slide Switches
- TS Series Tiny Slide Switches
- L Series Consumer Grade Slide Switches
- LP Series Snap-in Slide Switches
- S Series Power Slide Switches
- V Series Power & Line Voltage Select Slide Switches