ES Series Sealed Tiny Slide Switches



Features/Benefits

- Process compatible-internal o-ring and epoxy base seal
- Thru-hole & surface mount models
- Reliable contact design ensures long electrical life
- Robust actuator for easy actuation •

Materials

RoHS compliant

Typical Applications

- **Computer peripherals &** network products
- Test & measurement equipment
- Telephone & cable modems

Slide

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 m

 max. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: $10^9 \Omega$ min.

DIELECTRIC STRENGTH: 500 Vrms min.

OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9.

DEGREE OF PROTECTION: IP57; Protection against harmful dust deposit, full-scale voltage protection, temporary immersion.

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

PACKAGING: Thru-hole switches supplied in anti-static trays. Surface mount switches available in tape and reel packaging. ACTUATOR: LCP (UL 94V-0) black, standard. SURFACE PLATE: Stainless steel with tin plate. MOVABLE CONTACT: Bronze with gold plate over nickel plate. STATIONARY CONTACTS: Copper alloy, with gold plate over nickel plate.

TERMINALS: Copper alloy, with gold over nickel plate. All terminals insert molded.

BASE & TERMINAL SEAL: Epoxy.

HOUSING & BASE: Nylon (UL 94V-0).

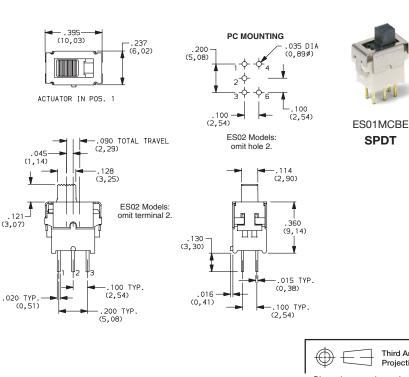
NOTE: All models RoHS compliant and compatible with all options.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center,

How To Order

Complete part numbers for ES Series Sealed Tiny Slide Switches are shown on pages I-5 through I-7. These unique tiny slide switches are process compatible. An internal o-ring and epoxy base seal protects the switch from wave and reflow soldering, as well as cleaning processes.

	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
PART NUMBER			
ES01MCBE	ON	NONE	ON
ES03MCBE	ON	OFF	ON
CONN. TERMINALS	2-3	OPEN	2-1
SCHEMATIC		€2 (CO	1M)
SPDT		● \●3	
ES02MCBE	OFF	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1
SCHEMATIC			
SPDT			3

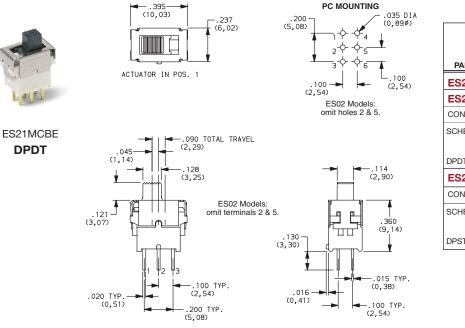


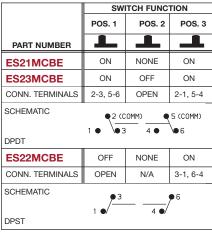


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

Third Anale Projection

ES Series Sealed Tiny Slide Switches

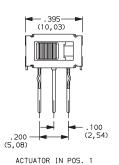


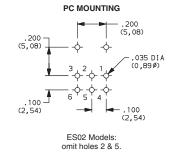




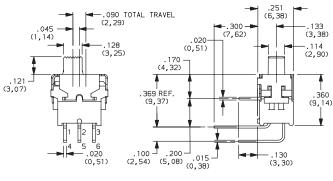


ES21MABE DPDT





PC MOUNTING



ES22 Models: omit terminals 2 & 5.

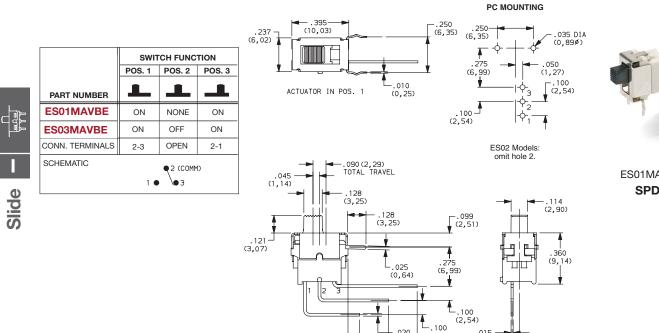
	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
PART NUMBER	I	┛	
ES21MABE	ON	NONE	ON
ES23MABE	ON	OFF	ON
CONN. TERMINALS	2-3, 5-6	OPEN	2-1, 5-4
SCHEMATIC	• 2 (C(
DPDT	1 • \•3	4 ●	\●6
ES22MABE	OFF	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1
SCHEMATIC	1	4	6



Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

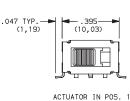
G&K

ES Series Sealed Tiny Slide Switches



ES01MAVBE SPDT

	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
PART NUMBER			
ES01MSABE	ON	NONE	ON
ES03MSABE	ON	OFF	ON
CONN. TERMINALS	2-3	OPEN	2-1
SCHEMATIC		●2 (C	OMM)
SPDT			
ES02MSABE	OFF	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1
SCHEMATIC		•	
		1	3
SPST			



045

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.020 (0,51)

.200 (5,08)

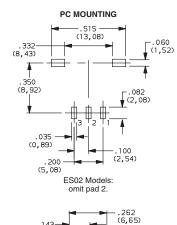
ES02 Models: omit terminal 2.

12 (3,07)

.050 (1,27)

.080 (2,03)

ES02 Models: omit terminal 2.



-P

ШΠ

-.015 (0,38)

.360 (9,14)

.143-(3,63)

.114 (2,90)

Į

.062 (1,57)

L.100

(2,54)

-.200 (5,08)

.015

.050 (1,27)

(0,38)

-.020 (0,51)

.200 (5,08)

SMT



ES01MSABE Horizontal Actuation SPDT

Third Angle \bigcirc Projection



Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

-.100 (2,54)

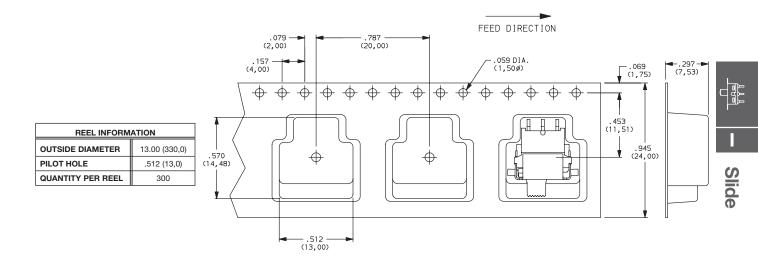
.090 (2,29) TOTAL TRAVEL

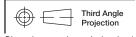
-.045 TYP. (1,14)

-.128 (3,25)

TAPE & REEL

For part numbers ESXXMSABE





Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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