ES SeriesSealed Tiny Slide Switches





ensures a long electrical life.

Description

- 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
- RoHS compliant

Specifications

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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 Ω 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		

Applications

- Computer peripherals & network products
- Test & measurement equipment

■ Telephone & cable modems

Materials

ES series sealed tiny slide switches are perfect for applications in

measurement equipment, and general telecom industries. With process compatible internal o-ring and epoxy base seals and a robust actuator for easy actuation, its reliable contact design

the computer peripherals & network products, test &

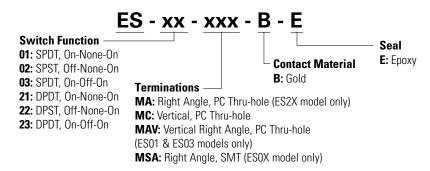
Housing & Base	Nylon (UL 94 V-0)
Actuator	LCP (UL 94 V-0) black, standard
Surface Plate	Stainless steel with tin plate
Movable Contact	Bronze with gold plate over nickel plate
Stationary Contacts	Copper alloy, with gold plate over nickel plate
Terminals	Copper alloy, with gold over nickel plate. All terminals insert molded
Base & Terminal Seal	Ероху

Notes

All models RoHS compliant and compatible with all options. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



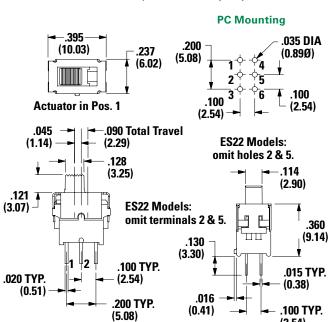


ES Series

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ES21MCBE, DPDT inches (mm)

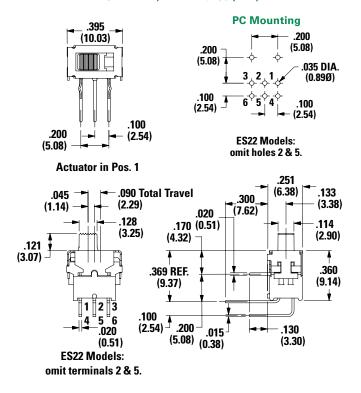


Switch Function

Part Number	POS. 1	POS. 2	POS. 3
ES21MCBE	ON	NONE	ON
ES23MCBE	ON	OFF	ON
Conn. Terminals	2-3, 5-6	OPEN	2-1, 5-4
SCHEMATIC 1 2 (COMM) 4 5 (COMM) DPDT			
ES22MCBE	OFF	NONE	ON
Conn. Terminals	OPEN	N/A	3-1, 6-4
SCHEMA	ATIC	•6	

ES21MABE, DPDT inches (mm)

(2.54)



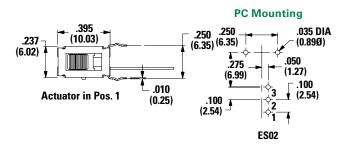
Switch Function

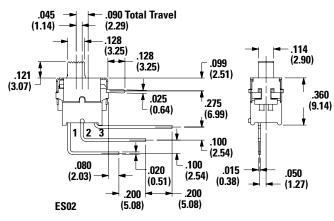
Switch Function			
Part Number	POS. 1	POS. 2	POS. 3
ES21MABE	ON	NONE	ON
ES23MABE	ON	OFF	ON
Conn. Terminals	2-3, 5-6	OPEN	2-1, 5-4
SCHEMATIC 1 2 (COMM) 4 5 (COMM) DPDT			
ES22MABE	OFF	NONE	ON
Conn. Terminals	OPEN	N/A	3-1, 6-4
SCHEMATIC 1 4 4 6 6			

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ES01MAVBE, SPDT inches (mm)



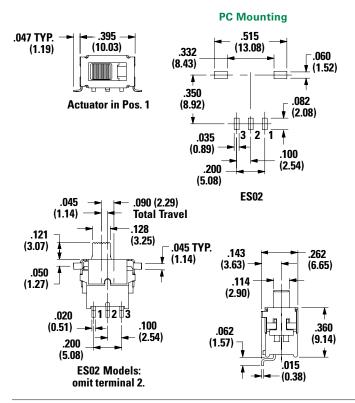


Switch Function

Part Number	POS. 1	POS. 2	POS. 3
ES01MAVBE	ON	NONE	ON
ES03MAVBE	ON	OFF	ON
Conn. Terminals	2-3	OPEN	2-1



ES01MSABE, Horizontal Actuation SPDT inches (mm)



Switch Function

Part Number	POS. 1	POS. 2	POS. 3
ES01MSABE	ON	NONE	ON
ES03MSABE	ON	OFF	ON
Conn. Terminals	2-3	OPEN	2-1

SCHEMATIC 2 (COMM)

1 • 3

SPDT

ES02MSABE	OFF	NONE	ON
Conn. Terminals	OPEN	N/A	3-1

SCHEMATIC

1 ● 3

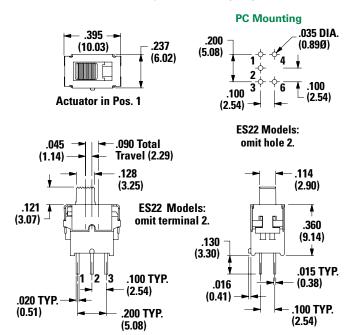
SPST



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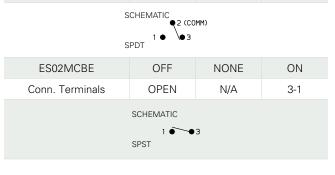


ES01MCBE, SPDT inches (mm)



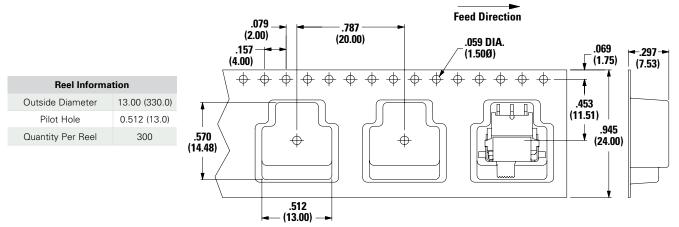
Switch Function

Part Number	POS. 1	POS. 2	POS. 3
ES01MCBE	ON	NONE	ON
ES03MCBE	ON	OFF	ON
Conn. Terminals	2-3	OPEN	2-1



Tape & Reel inches (mm)

For part numbers ESXXMSABE



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