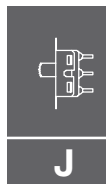


Slides

Product Selection Guide

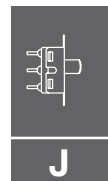


Slide ↶

Slide							
Series	ES	TS	1000	GS	L	LP	S
Switch Type	Tiny	Tiny	Miniature	Ultra-miniature	Miniature	Miniature	Power
Poles	1 & 2	1	1 & 2	1	1 & 2	1 & 2	1 & 2
Momentary			•		•		•
Process Sealed	•			•			
Splashproof	•				•		
Screwdriver Slot					•		•
Housing Marking						•	•
Tape & Reel	•			•			
Max. Current	0.4 VA	3 A	6 A	0.4 VA	4 A	11A	15 A
Terminations							
Wire Wrap		•	•		•		
Quick Connect			•				•
Wire Lead					•	•	•
Solder Lug			•		•	•	•
PC	•	•	•	•	•		•
PCB Mount Options							
Thru-hole	•	•	•	•	•	•	•
Vertical	•	•	•	•	•	•	•
Right Angle	•	•	•	•			•
Surface Mount	•			•			
Panel Mount Options							
Snap-in						•	•
Mounting Ears			•		•		•
Right Angle	•	•	•	•			•
Page No.	J-4	J-8	J-11	J-17	J-19	J-25	J-28

Slides Product Selection Guide

Slide						
Series	V	OS	PCM	AYZ	JS	JSM
Switch Type	Power & Line Voltage	Miniature	Low Profile	Low Profile	Low Profile	Low Profile
Poles	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1
Momentary						•
Process Sealed						
Splashproof						
Screwdriver Slot	•					
Housing Marking						
Tape & Reel			•		•	•
Max. Current	10.1 A	200mA	0.3A	100mA	0.3A	0.3A
Terminations						
Wire Wrap						
Quick Connect	•					
Wire Lead						
Solder Lug		•				
PC	•	•	•	•	•	
PCB Mount Options						
Thru-hole	•	•			•	
Vertical	•	•			•	
Right Angle	•	•			•	
Surface Mount			•	•	•	•
Panel Mount Options						
Snap-in	•					
Mounting Ears	•	•				
Right Angle	•					
Page No.	J-33	J-37	J-44	J-46	J-49	J-54



Slide

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
- RoHS compliant

Typical Applications

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



Patent No. 6,008,458

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 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.

Materials

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

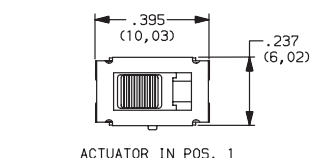
NOTE: All models RoHS compliant and compatible with all options.

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

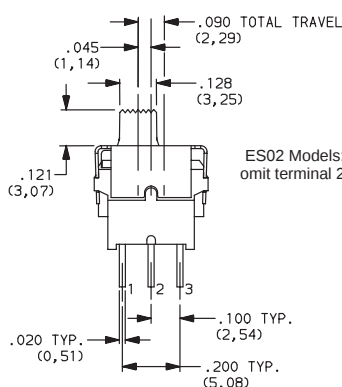
How To Order

Complete part numbers for ES Series Sealed Tiny Slide Switches are shown on pages J-5 through J-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.

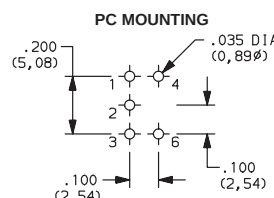
PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
ES01MCBE	ON	NONE	ON
ES03MCBE	ON	OFF	ON
CONN. TERMINALS	2-3	OPEN	2-1
SCHEMATIC			
SPDT			
ES02MCBE	OFF	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1
SCHEMATIC			
SPST			



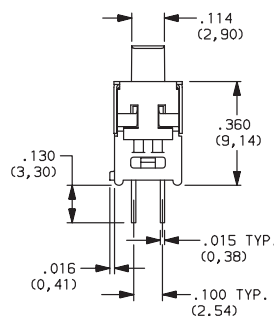
ACTUATOR IN POS. 1



ES02 Models:
omit terminal 2.



ES02 Models:
omit hole 2.



ES01MCBE
SPDT



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

www.ck-components.com

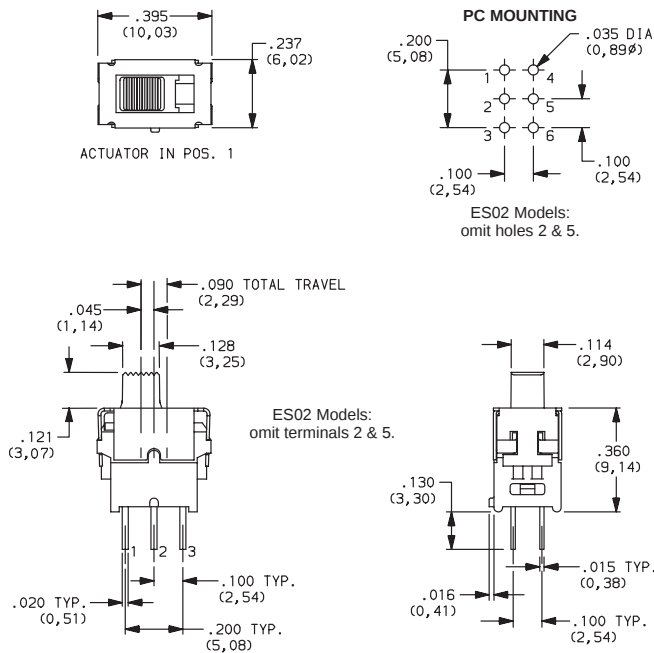
C&K

ES Series

Sealed Tiny Slide Switches



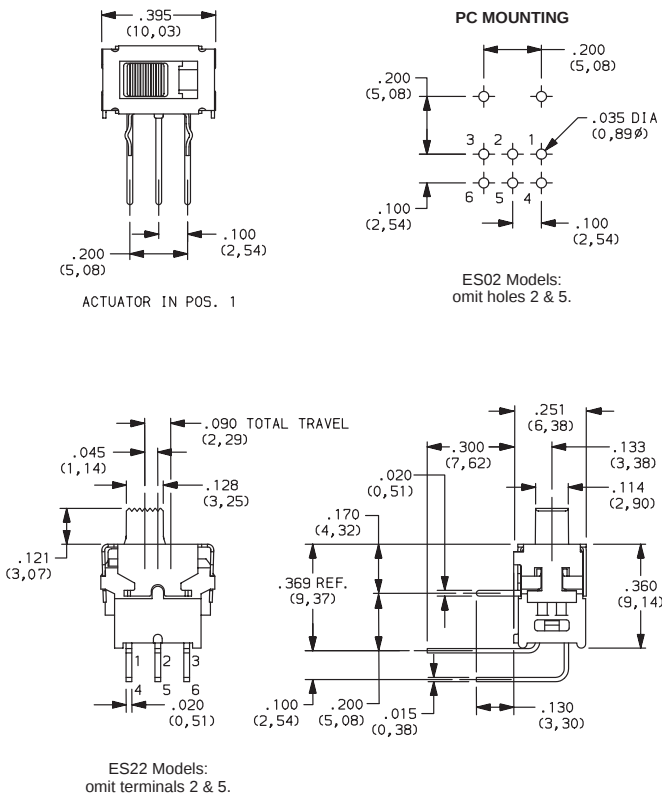
ES21MCBE
DPDT



PART NUMBER	SWITCH FUNCTION		
	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			
DPDT			
ES22MCBE	OFF	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1, 6-4
SCHEMATIC			
DPST			



ES21MABE
DPDT



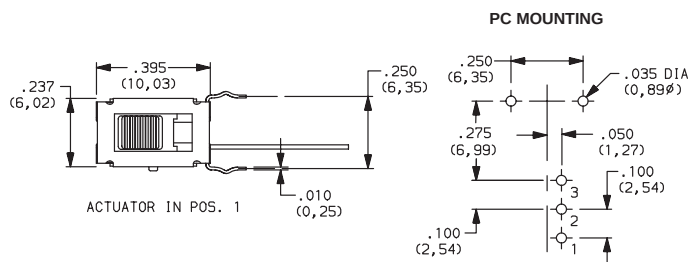
PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
ES21MABE	ON	NONE	ON
ES23MABE	ON	OFF	ON
CONN. TERMINALS	2-3, 5-6	OPEN	2-1, 5-4
SCHEMATIC			
DPDT			
ES22MABE	OFF	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1
SCHEMATIC			
DPST			

ES Series Sealed Tiny Slide Switches

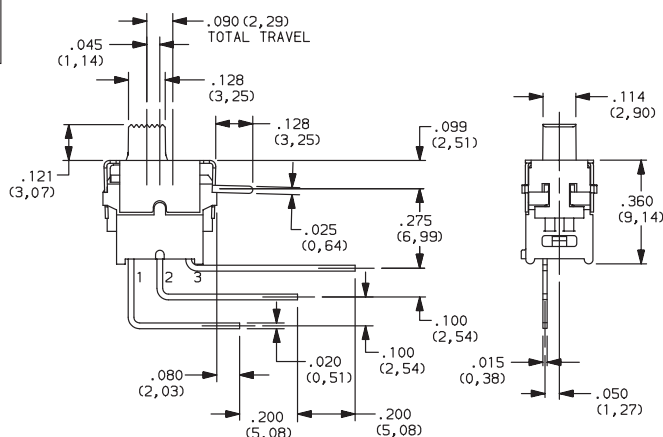


Slide

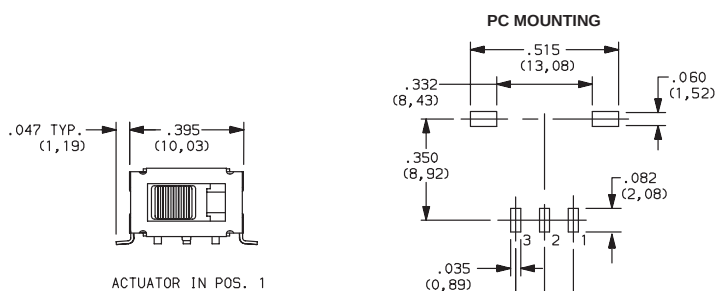
PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
ES01MAVBE	ON	NONE	ON
ES03MAVBE	ON	OFF	ON
CONN. TERMINALS	2-3	OPEN	2-1
SCHEMATIC			



ES01MAVBE
SPDT



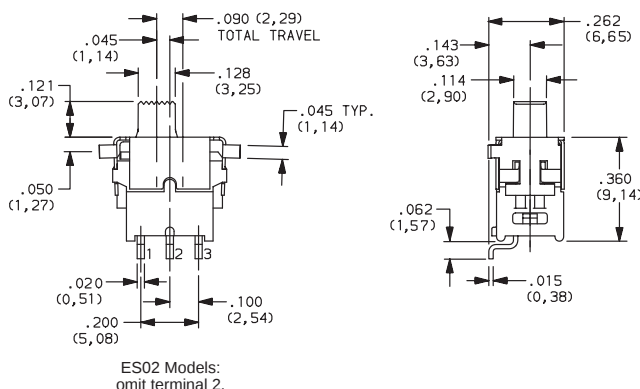
PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
ES01MSABE	ON	NONE	ON
ES03MSABE	ON	OFF	ON
CONN. TERMINALS	2-3	OPEN	2-1
SCHEMATIC			
SPDT			
ES02MSABE	OFF	NONE	ON
CONN. TERMINALS	OPEN	N/A	3-1
SCHEMATIC			
SPST			



SMT



ES01MSABE
Horizontal Actuation
SPDT



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

C&K

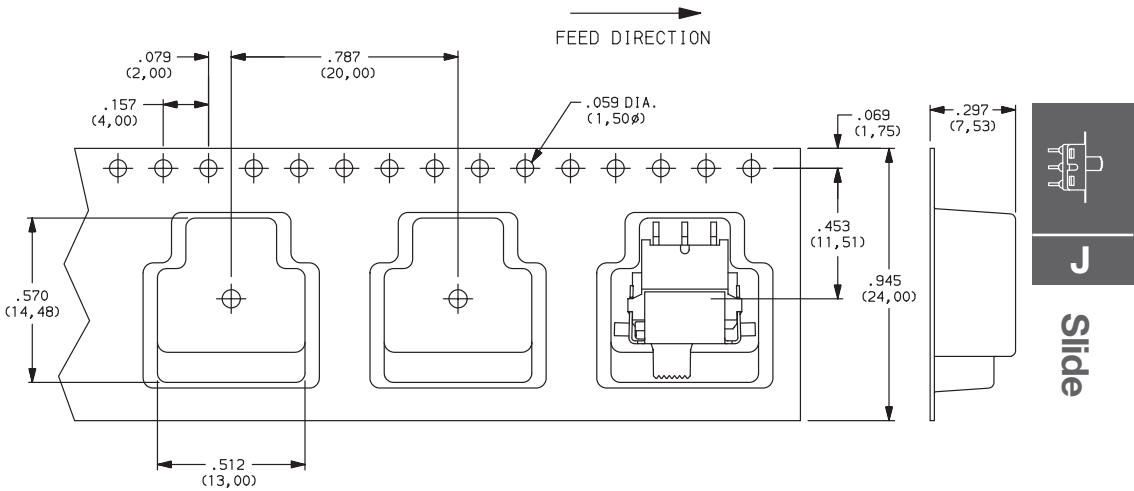
ES Series

Sealed Tiny Slide Switches

TAPE & REEL

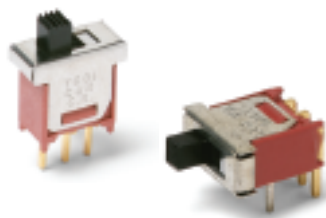
For part numbers ESXXMSABE

REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.512 (13,0)
QUANTITY PER REEL	300



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

TS Series Tiny Slide Switches



Features/Benefits

- **Reliable contact design ensures long electrical life**
- **Ratings up to 3 AMPS**
- **Epoxy terminal-seal compatible with bottom wash cleaning**
- **RoHS compliant**

Typical Applications

- **Test & measurement equipment**
- **Computers & peripherals**
- **Telecommunications & networking equipment**



Models Available

Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material (TS01 Model): 3 AMPS @ 120 V AC or 28 V DC; (TS02, TS03 Models): 1 AMP @ 120 V AC or 28 V DC. See page I-10 for additional ratings.

ELECTRICAL LIFE:

TS01 MODELS: 60,000 make-and-break cycles at full load.
TS02, TS03 MODELS: 30,000 cycles.

CONTACT RESISTANCE: Below 20 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10⁹ Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

Materials

CASE: Glass filled nylon 6/6, flame retardant, heat stabilized, or diallyl phthalate (DAP) (UL 94V-0).

ACTUATOR: Nylon, black standard.

HOUSING: Stainless steel or stainless steel, nickel plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page I-10 for additional contact materials.

CENTER CONTACT & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page J-10 for additional contact materials.

TERMINAL SEAL: Epoxy. Refer to Soldering and Cleaning in Technical Data chapter.

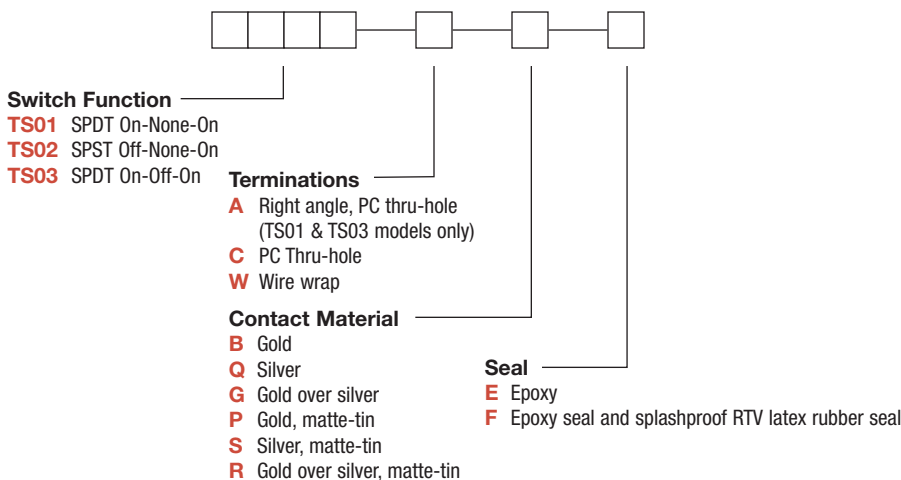
NOTE: Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant.

NOTE: Specifications and materials listed above are for switches with standard options.

For information on specific and custom switches, consult Customer Service Center.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-9 and J-10. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.



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

TS Series
Tiny Slide Switches

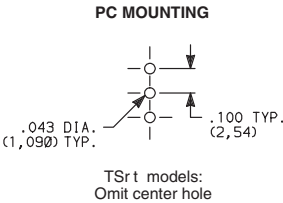
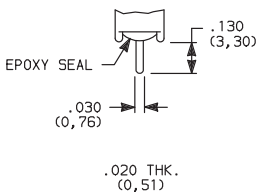
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
		C&K marking on opposite side			C&K marking on opposite side			
SP	TS01	ON	NONE	ON	1-2	OPEN	2-3	
	TS03	ON	OFF	ON				
	TS02	OFF	NONE	ON	OPEN	N/A	3-1	
SPDT Part number shown: TS01CBE								

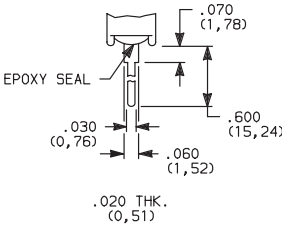
All models with all options when ordered with G, L, M, Q, R or S contact material.
TS02 model not available with A terminations.

TERMINATIONS

C PC THRU-HOLE



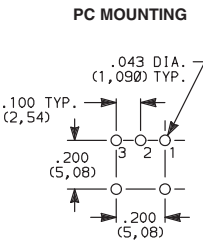
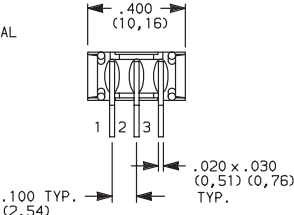
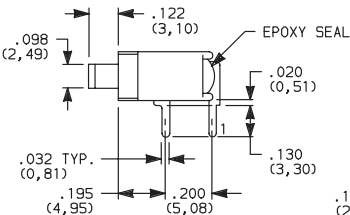
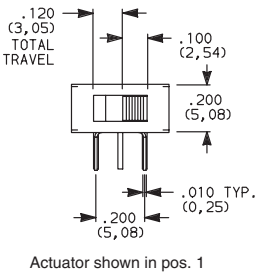
W WIRE WRAP



SPDT and SPST

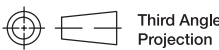
SPDT and SPST

A RIGHT ANGLE, PC THRU-HOLE



TS01ABE
Horizontal Actuation
SPDT

Not available with TS02 model.



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



Slide

TS Series Tiny Slide Switches

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B	GOLD ¹	GOLD ³	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
P		MATTE-TIN ⁶		
Q	SILVER ^{4,5}	SILVER ⁵	POWER	TS01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. TS02, TS03 MODELS: 1 AMP @ 120 V AC OR 28 V DC.
S		MATTE-TIN ⁶		
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	TS01 MODELS: 0.4 VA MAX @20 V AC OR DC MAX. OR 3 AMPS @ 120 V AC OR 28 V DC. TS02, TS03 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 1 AMP @ 120 V AC OR 28 V DC.
R		MATTE-TIN ⁶		

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- ¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- ² END CONTACTS: Coin silver, with gold plate over nickel plate.
- ³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- ⁴ END CONTACTS: Coin silver, silver plated.
- ⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- ⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate

All models   with all options when ordered with G, L, M,S or R contact material.

B contact material standard with A and W terminations.

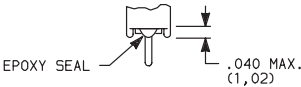
Q contact material standard with C terminations.

NOTE: Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant.

K, L and M options represent Non RoHS tin lead product and are not recommended for new designs. For additional information please contact Customer Service.

SEAL

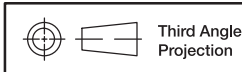
E EPOXY SEAL



F EPOXY SEAL AND SPLASHPROOF RTV LATEX RUBBER SEAL



NOTE: RTV latex rubber seal peels off easily after installation. Epoxy terminal seal standard. Not available with A termination.



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

J

- **Test & measurement equipment**
- **Telecommunications**
- **Computer & peripherals**



For information on specific and custom switches, consult Customer Service Center.

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-12 through J-16. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.

Switch Function

- 1101** SP On-None-On
- 1103** SP On-Off-On
- 1108** SP Mom-None-On
- 1201** DP On-None-On
- 1203** DP On-Off-On

Mounting Style

- M2** PC mount without tabs
- M1** Panel mount with tabs

Actuator

- S3** .200" high
- S1** .040" high
- S2** .140" high
- S4** .285" high
- S5** .370" high
- S6** .485" high
- T3** .200" high

Terminations

- A** Right angle, PC thru-hole
- C** PC Thru-hole
- AV2** Vertical right angle, PC thru-hole
- Z** Solder lug
- V3** V-bracket
- V4** V-bracket
- W** .750" long, wire wrap
- Z3** Quick connect

Contact Material

- B** Gold
- Q** Silver
- G** Gold over silver
- P** Gold, matte-tin
- S** Silver, matte-tin
- R** Gold over silver, matte-tin

Seal

- E** Epoxy
- D** No epoxy seal
- I** Epoxy potted base

Actuator Color

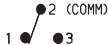
- 2** Black
- 1** White
- 3** Red
- 7** Blue



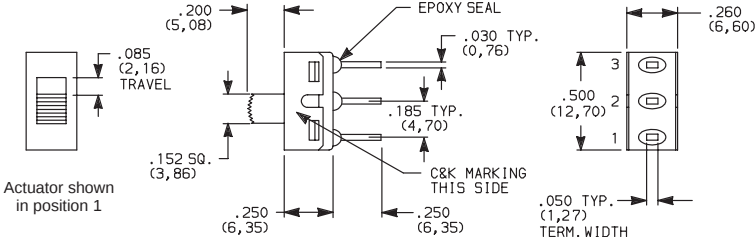
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

1000 Series Miniature Slide Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
SP	1101	ON	NONE	ON	1-2	N/A	2-3	
	1103	ON	OFF	ON		OPEN		
	1108	MOM.	NONE	ON		N/A		
SPDT								

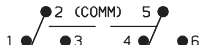
SPDT



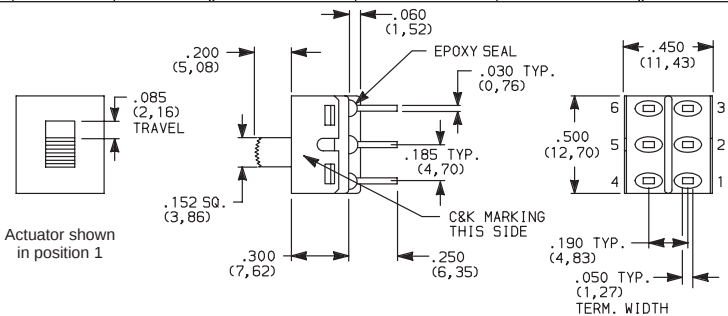
Actuator shown in position 1

Part number shown: 1101M2S3CQE2

Terminal Nos.
For Reference Only

DP	1201	ON	NONE	ON	2-1,5-4	OPEN	2-3,5-6	
	1203	ON	OFF	ON				
DPDT								

DPDT



Actuator shown in position 1

Part number shown: 1201M2S3CQE2

Terminal Nos.
For Reference Only

MOM. = Momentary

All models with all options when ordered with G, L, M, S or R contact material.

MOUNTING STYLE

M2 PC MOUNTING WITHOUT TABS

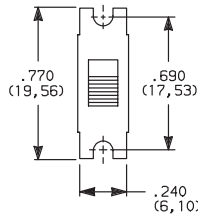


NOTE: Available with A, AV2, C, V3, V4, W terminations only.

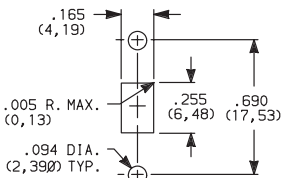
M1 PANEL MOUNTING WITH TABS



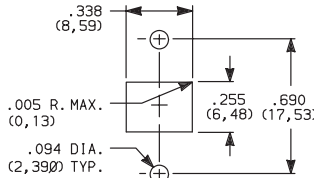
NOTE: Available with C, W, Z, Z3 terminations only.
No mounting hardware supplied.



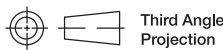
PANEL MOUNTING



All actuators except T3.
Single pole



For T3 actuator only.
Double pole

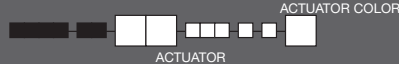


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

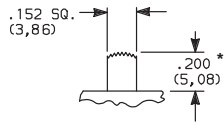


1000 Series Miniature Slide Switches

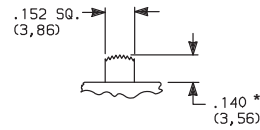
ACTUATOR



S3 .200" HIGH

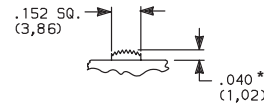


S2 .140" HIGH



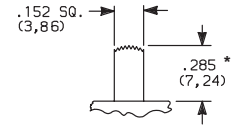
110X models only.

S1 .040" HIGH

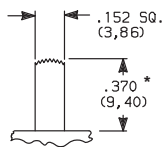


120X models only.

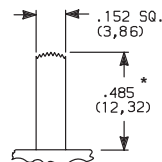
S4 .285" HIGH



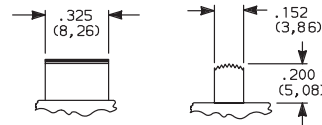
S5 .370" HIGH



S6 .485" HIGH



T3 .200" HIGH



120X models only.

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED
7	BLUE
9	GRAY

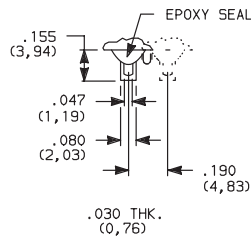
Other colors available, consult Customer Service Center.

* Subtract .014 (0,36) from actuator height, all models with A, AV2, V3, V4 terminations.

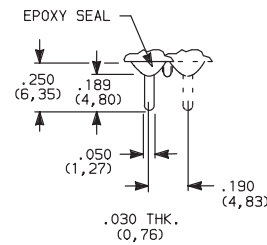
TERMINATIONS



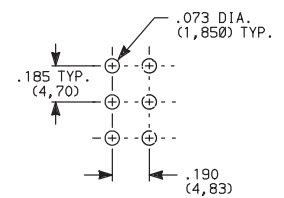
Z SOLDER LUG



C PC THRU-HOLE



PC MOUNTING

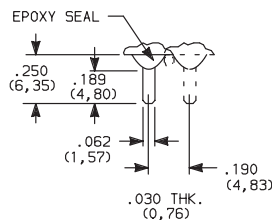


SPDT & DPDT

Not available with P, S or R contact materials.

SPDT & DPDT

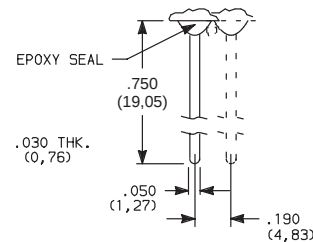
Z3 QUICK CONNECT



Not available with P, S or R contact materials. Mating quick connector available; order part number 530100000, page J-15.

SPDT & DPDT

W WIRE WRAP



SPDT & DPDT



Third Angle Projection

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

C&K

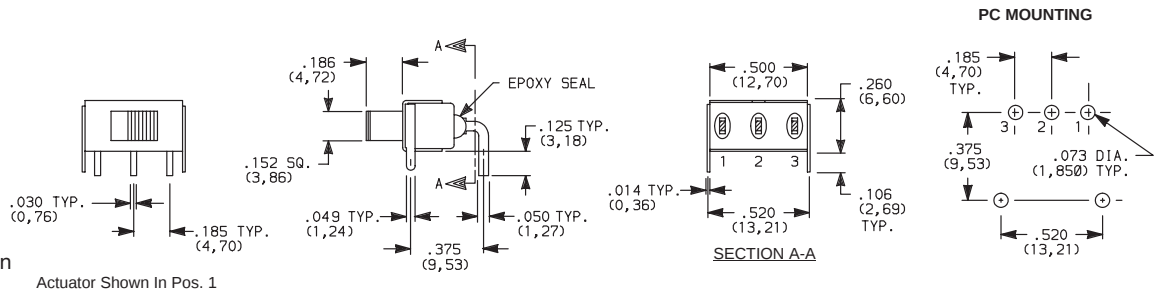
1000 Series Miniature Slide Switches

TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE



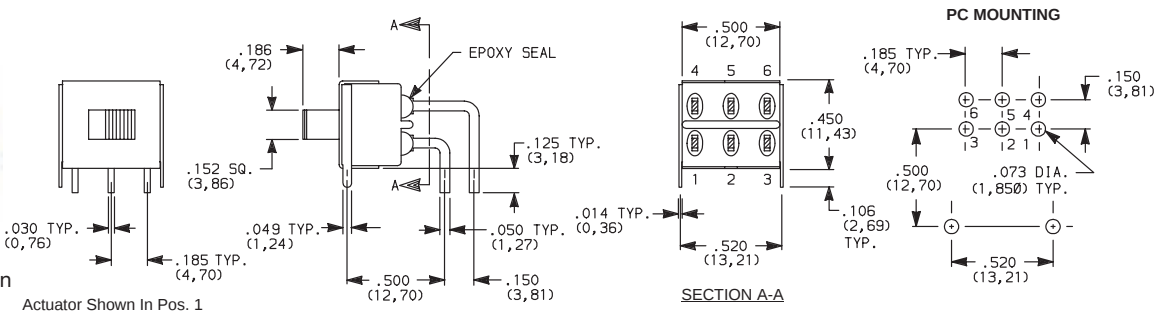
1101M2S3ABE2
Horizontal Actuation
SPDT



A RIGHT ANGLE, PC THRU-HOLE



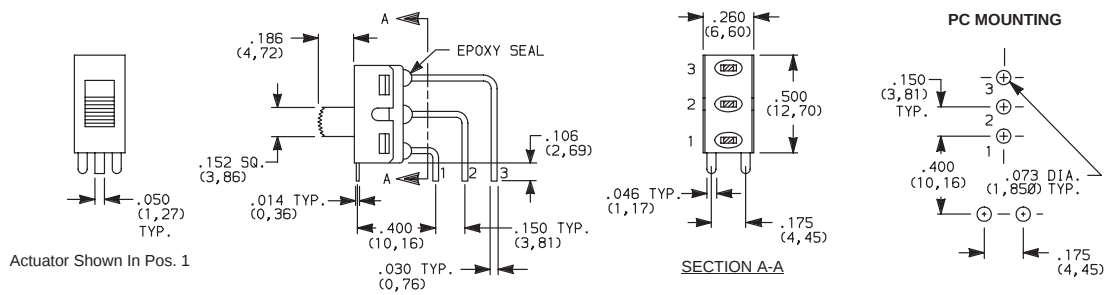
1201M2S3ABE2
Horizontal Actuation
DPDT



AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



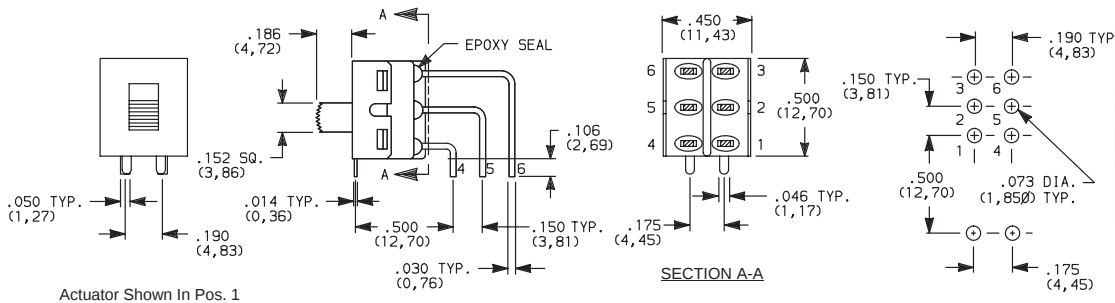
1101M2S3AV2BE2
Vertical Actuation
SPDT



1000 Series Miniature Slide Switches

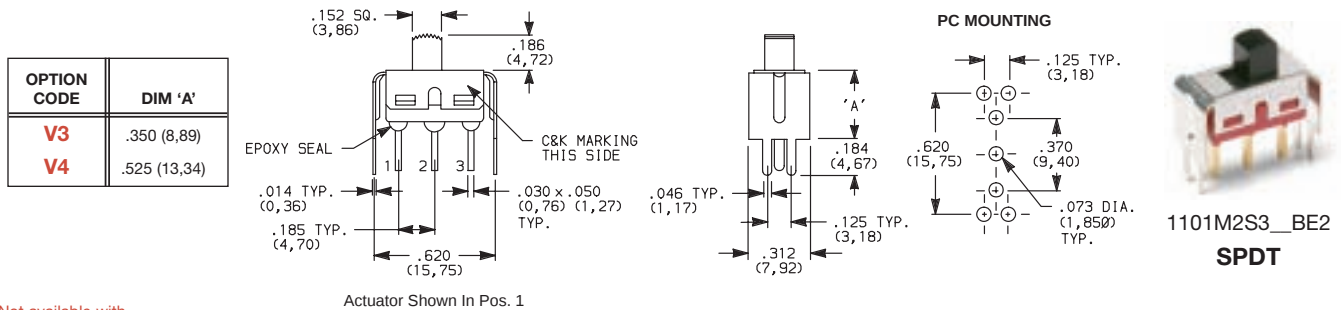
TERMINATIONS

AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



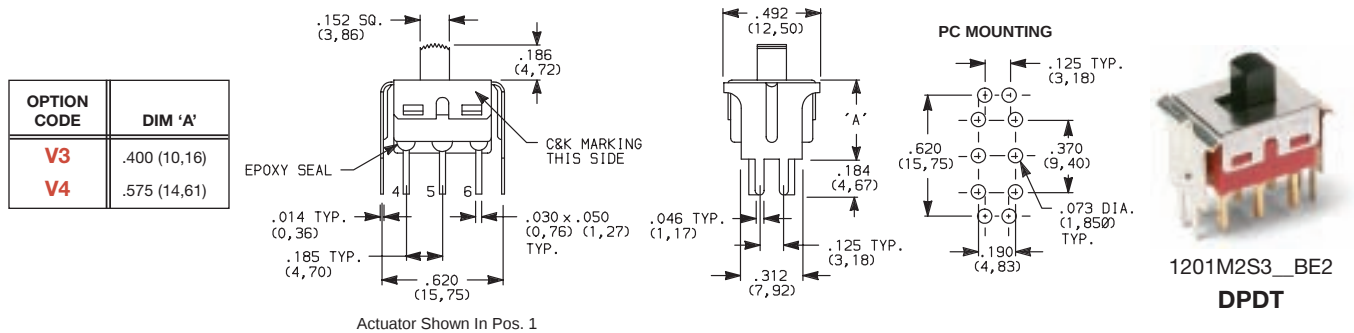
Not available with M1 mounting style, I seal option.
Terminal bend radii and lead-in manufacturing option.

V3, V4 VERTICAL MOUNT,
V-BRACKET



Not available with
M1 mounting style and I seal.

V3, V4 VERTICAL MOUNT,
V-BRACKET



Not available with
M1 mounting style and I seal.

C&K



Third Angle
Projection

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

www.ck-components.com

1000 Series Miniature Slide Switches

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B	GOLD ¹	GOLD ³	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
P		MATTE-TIN ⁶		
Q	SILVER ^{4,5}	GOLD ³	POWER	6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.
S		MATTE-TIN ⁶		
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX @ 20 V AC OR DC MAX OR 6 AMPS @ 120 V AC OR 0.4 MAX. 28 V DC; 3 AMPS @ 250 V AC.
R		MATTE-TIN ⁶		

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

² END CONTACTS: Coin silver, with gold plate over nickel plate.

³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

⁴ END CONTACTS: Coin silver, silver plated.

⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate.

All models   with all options when ordered with G, L, M, Q, S or R contact material.

B contact material standard with all terminations except C, Z, Z3.

Q contact material standard with C, Z, Z3 terminations.

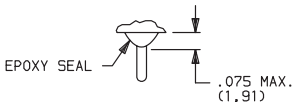
P, S or R contact materials not available with Z, Z3 terminations.

K, L and M options represent Non RoHS tin lead product and are not recommended for new designs. For additional information please contact Customer Service.

NOTE: Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant.

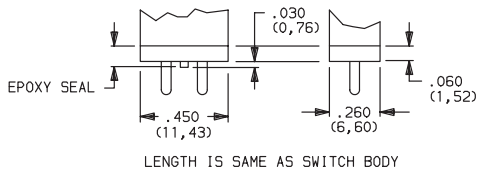
SEAL

E EPOXY SEAL



D NO EPOXY SEAL

I EPOXY POTTED BASE



NOTE: Available with C, W, W3, Z, Z3 terminations only.

AVAILABLE HARDWARE

Fits Z3 Termination
female connector



PART NO.
530100000

Available in loose pieces.

C&K



Third Angle
Projection

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

www.ck-components.com

Slide

A diagram of a slide connector, showing a rectangular base with a central slot and two side slots, and a smaller rectangular piece with a central pin and two side pins, designed to fit into the base.

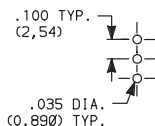
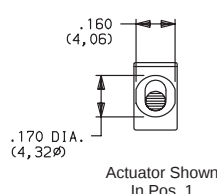
- ## Specifications

PACKAGING: Switches available in embossed anti-static tape and reels per EIA 481A. Some models available on embossed anti-static tape and reels per EIA 481-3, consult Customer Service Center.

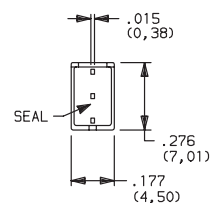
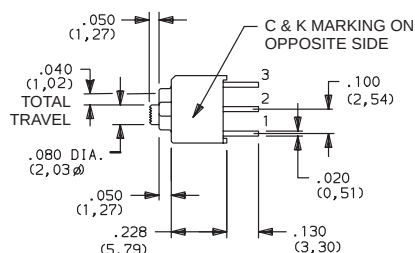
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Complete part numbers for GS Series Sealed Ultraminiature Slide Switches are shown below and on page J-18.

PART NUMBER	SWITCH FUNCTION		SCHEMATIC
	POS.1	POS. 2	
			
GS01MCBE	ON	ON	 1 2 (COMM) 3 SPDT
Conn. Terms.	2-1	2-3	
GS02MCBE	OFF	ON	 1 3 SPST
Conn. Terms.	OPEN	3-1	
GS04MCBE	ON	OFF	 1 3 SPST
Conn. Terms.	1-3	OPEN	



GS02-omit center hole.



GS02 Model



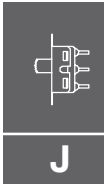
GS01MCBE
SPDT



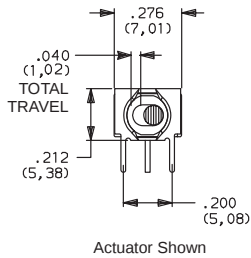
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

GS Series

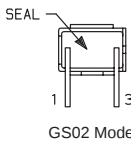
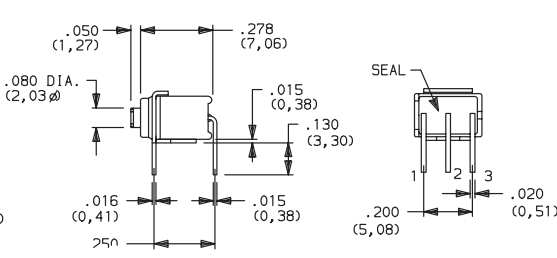
Sealed Ultraminiature Slide Switches



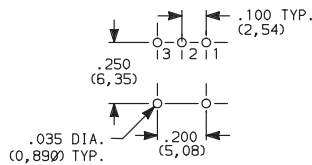
Slide



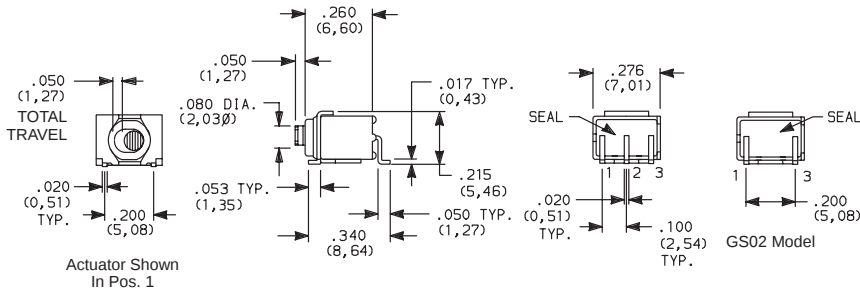
GS01MABE
Horizontal Actuation
SPDT



PC MOUNTING



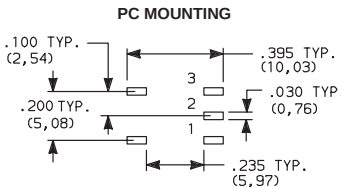
PART NUMBER	SWITCH FUNCTION		SCHEMATIC
	POS.1	POS. 2	
GS01MABE	ON	ON	SPDT
Conn. Terms.	2-1	2-3	
GS02MABE	OFF	ON	SPST
Conn. Terms.	OPEN	3-1	
GS04MABE	ON	OFF	SPST
Conn. Terms.	1-3	OPEN	



SMT



GS01MSABE
Horizontal Actuation
SPDT



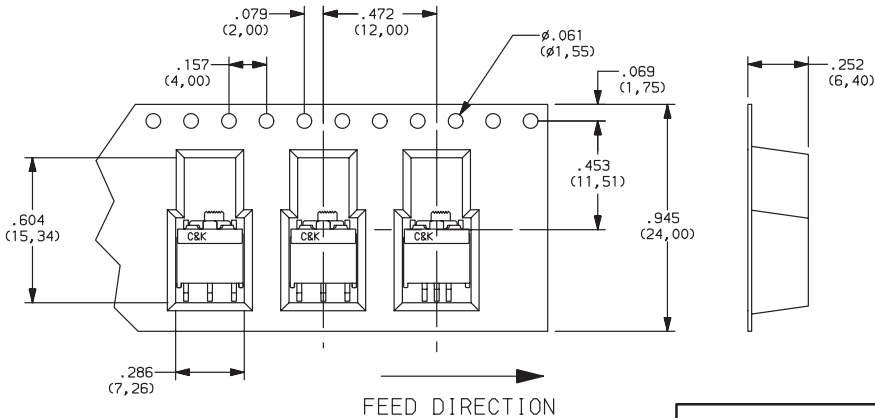
PC MOUNTING

PART NUMBER	SWITCH FUNCTION		SCHEMATIC
	POS.1	POS. 2	
GS01MSABE	ON	ON	SPDT
Conn. Terms.	2-1	2-3	
GS02MSABE	OFF	ON	SPST
Conn. Terms.	OPEN	3-1	
GS04MSABE	ON	OFF	SPST
Conn. Terms.	1-3	OPEN	

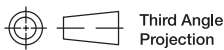
TAPE & REEL

FOR PART NUMBERS GS01MSABE, GS02MSABE, GS04MSABE

REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.512 (13,0)
QUANTITY PER REEL	600



FEED DIRECTION



Third Angle
Projection

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



J

- **Communications equipment**
- **Lighting devices**



Materials

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

Slide

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-20 through J-24. For additional options not shown in catalog, consult Customer Service Center.

[illegible]

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

L Series Miniature Slide Switches

SWITCH AND LOCK FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
SP	L101	SPST		ML, MS, SS
	L102	SPDT		ML, MS, SS
	L112	SPDT-MOM.		ML, MS, MV, SS
	L103	SP3T		MA, MS, TS
	L113	SP3T-MOM. to one end		MA, MS, TS
	L123	SP3T-MOM. to both ends		MA, MS, TS
	L104	SP4T		MS

NO. POLES	MODEL NO.	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
DP	L201	DPST		MA, MS, SS
	L202	DPDT		MA, MS, SS
	L212	DPDT-MOM.		MV
	L203	DP3T		MS, TS
	L204	DP4T		MS

NOTE: and MOM. in table indicates momentary action.

All models with all options when ordered with 'G' or 'Q' contact material.

Models with '01' termination option only.

Contacts make on side actuator thrown.

ACTUATOR

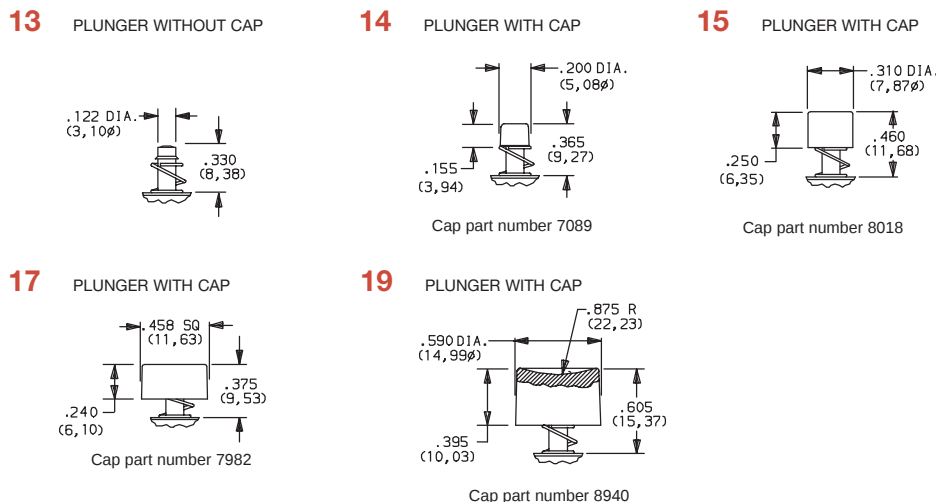


ACTUATOR OPTIONS FOR 'MS, MA, ML, SS, & TS' MOUNTING STYLES



NOTE: No actuator color option code is required. Standard actuator color is black, other colors and heights available, consult Customer Service Center. See pages J-20 and J-22 for available mounting styles.

ACTUATOR OPTIONS FOR 'MV' MOUNTING STYLE



OPTION CODE	ACTUATOR CAP COLORS
2	BLACK
NONE	01-13, 23 ACTUATORS

Other colors available, consult Customer Service Center.

ACTUATOR CAPS

Caps supplied are not installed standard. To order actuator options '14 thru 29,' select desired cap color from chart and place option code in last box of ordering format. Leave box empty for all other actuator options. Caps may also be ordered separately and user installed, see pages J-23 and J-24. Specify the four digit part number and desired cap color. For switches without caps, order '13' or '23' actuator option. Cap finish: gloss (excluding square cap part number 7982, finish: matte).

SPLASH CAPS

New protective splash caps for PC mounted slide switches are available separately and reusable. They provide splash protection during soldering and cleaning processes. To order specify correct part number, see page J-24.



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



L Series Miniature Slide Switches

DETENT

1 WITH DETENT

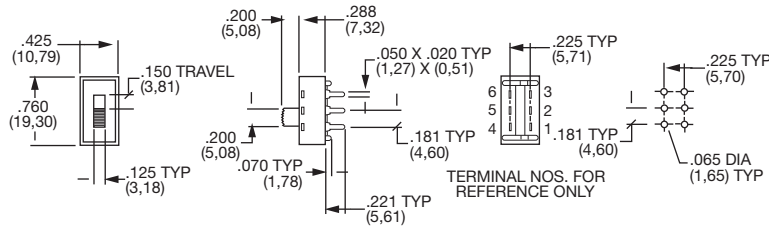
Standard with all maintained models: L101, L102, L103, L104, L113, L201, L202, L203 and L204.

2 WITHOUT DETENT

Standard with all momentary models: L112, L123, and L212.

MOUNTING STYLE

MS PC THRU-HOLE, 2 POSITION MODELS



AVAILABLE WITH:

Models: L101, L102, L112, L103, L113 L123, L201, L202, L203, L104 and L204
Terminations: 02, 06, 10 and 12
Actuators: 01, 02, 03, 05, 11 and 12

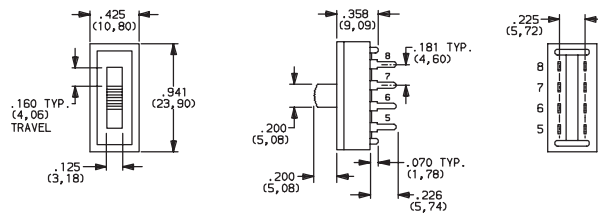
PC MOUNTING

For mounting information, see TERMINATIONS section, page J-23.
 Splash caps are available separately and reusable, see page J-24.

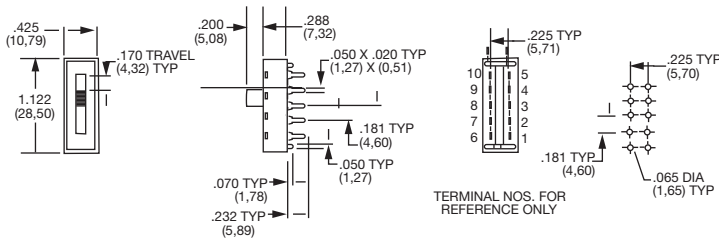


L203011MS02Q
DP3T

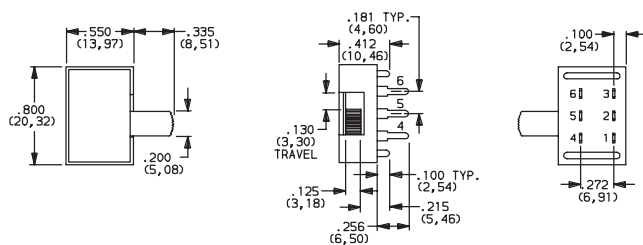
PC THRU-HOLE, 3 POSITION MODELS



PC THRU HOLE, 4 POSITION MODELS



MA RIGHT ANGLE, PC THRU-HOLE



AVAILABLE WITH:

Models: L201, L202, L113 and L123
Terminations: 04
Actuators: 02 and 12

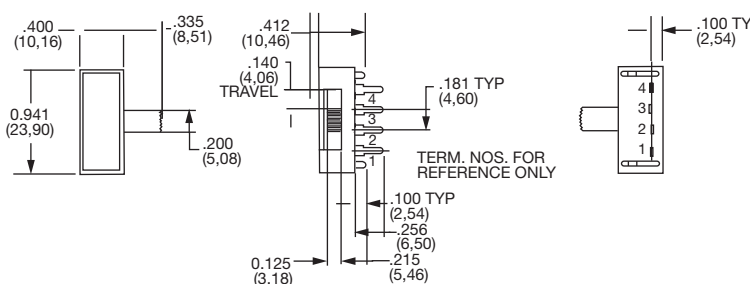
PC MOUNTING

For mounting information, see TERMINATIONS section, page J-23.
 Splash caps are available separately and reusable, see page J-24.



L202021MA04Q
Horizontal Actuation
DPDT

RIGHT ANGLE, PC, SP-3 POSITION MODELS



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

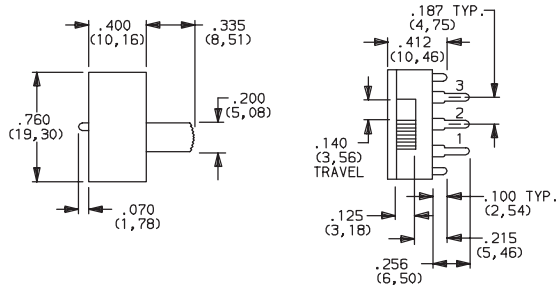


Slide

L Series Miniature Slide Switches

MOUNTING STYLE

ML RIGHT ANGLE, PC THRU-HOLE



AVAILABLE WITH:

Models: L101, L102, L112
Terminations: 04
Actuators: 01, 02, 05, 11 and 12
PC MOUNTING

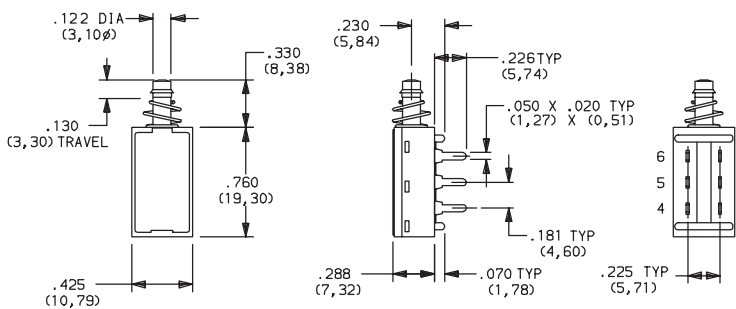
For mounting information, see TERMINATIONS section, page J-23.

Splash caps are available separately and reusable, see page J-24.



L102021ML04Q
Horizontal Actuation
SPDT

MV RIGHT ANGLE, PC THRU-HOLE



AVAILABLE WITH:

Models: L112 and L212
Terminations: 02, 06, 10 and 12
Actuators: 13 thru 19

PC MOUNTING

For mounting information, see TERMINATIONS section, page J-23.

Splash caps are available separately and reusable, see page J-24.

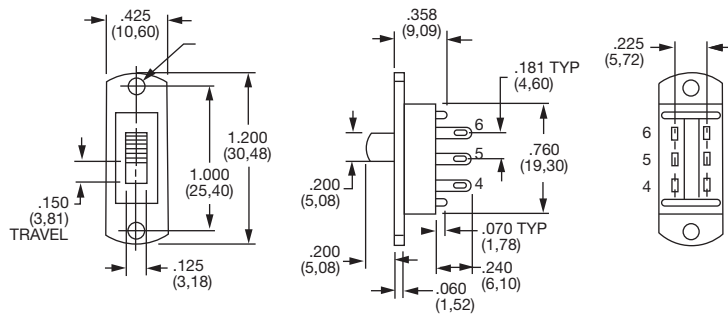


L212132MV02Q
DPDT

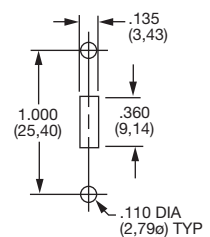
SS PANEL WITH MOUNTING EARS



L202011SS03Q
DPDT



PANEL MOUNTING



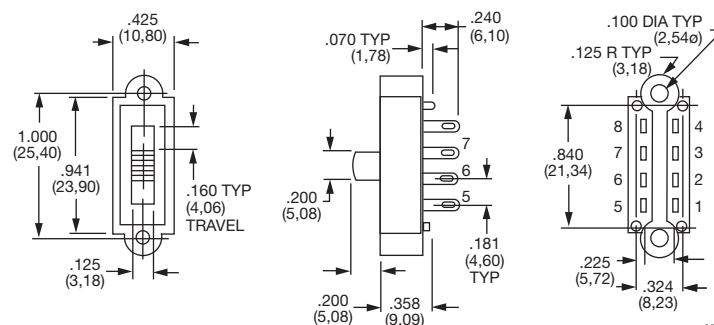
AVAILABLE WITH:

Models: L101, L102, L112, L201 and L202
Terminations: 01, 02, 03, 06, 10, 12
Actuators: 01, 02, 03, 05, 11 and 12

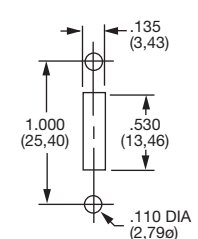
TS PANEL WITH INTEGRAL MOUNTING EARS



L203011TS03Q
DP3T



PANEL MOUNTING



AVAILABLE WITH:

Models: L103, L113, L123 and L203
Terminations: 01, 02, 03, 06, 10, 12
Actuators: 01, 02, 03, 05, 11 and 12



Third Angle
Projection

C&K

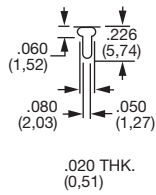
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

L Series Miniature Slide Switches

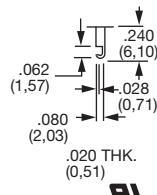
TERMINATIONS

'MS, MV, SS & TS' Mounting Styles Only

02 PC THRU-HOLE

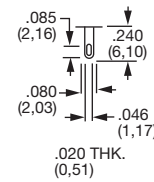


01 SOLDER LUG WITH NOTCH

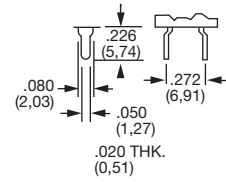


'01' terminations only.

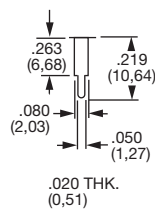
03 SOLDER LUG WITH HOLE



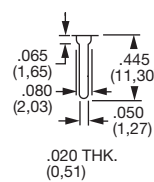
10 PC THRU-HOLE



12 PC THRU-HOLE

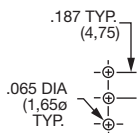
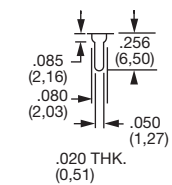


06 WIRE WRAP

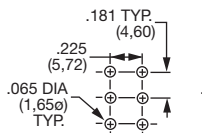


'MA & ML' Mounting Styles Only

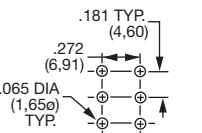
04 PC THRU-HOLE



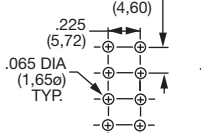
All models with '04' terminations and 'ML' mounting style.



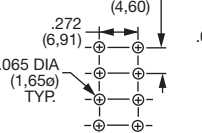
All 2 position models, except '04' terminations.



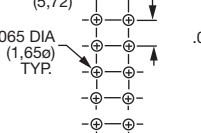
All 2 position models with '04' terminations and 'MA' mounting style.



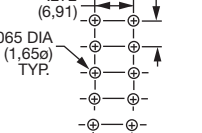
All 2 position models with '04' terminations and 'MA' mounting style.



All 3 position models, except '04' terminations.



All 3 position models, with '10' terminations.



All 4 position models, with '10' terminations.

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	RATINGS	
Q	SILVER ²	LOW LEVEL/DRY CIRCUIT	LX0X, LX1X MODELS: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA). LX6X MODELS: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
B	GOLD ¹	POWER	0.4 VA MAX. @20 V AC OR DC max.
G	GOLD OVER SILVER ³	LOW LEVEL/DRY CIRCUIT OR POWER	LX0X, LX1X MODELS: 0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA). LX6X MODELS: 0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

¹ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

² CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

³ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

All models with all options (except '01' termination) when ordered with 'G' or 'Q' contact material.

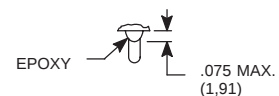
Models with '01' termination option only.

NOTE: 'G' contact material is equivalent to both 'B' and 'Q' contact materials.

SEAL

NONE NO SEAL

E EPOXY SEAL



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

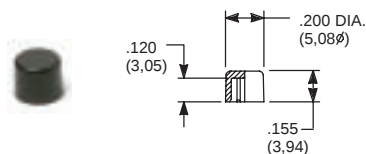


Slide

L Series Miniature Slide Switches

AVAILABLE HARDWARE

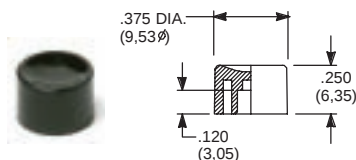
Cap
Compatible with 13-19 actuators



PART NO.
708902000 BLACK
708903000 RED

Material: Nylon
Finish: Gloss

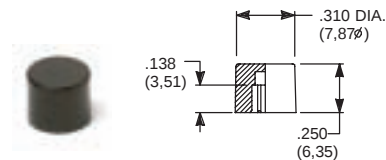
Cap
Compatible with 13-19 actuators



PART NO.
752702000 BLACK
752703000 RED

Material: Nylon
Finish: Gloss

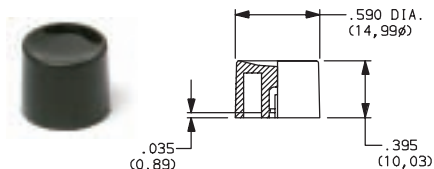
Cap
Compatible with 13-19 actuators



PART NO.
801802000 BLACK
801803000 RED

Material: Nylon
Finish: Gloss

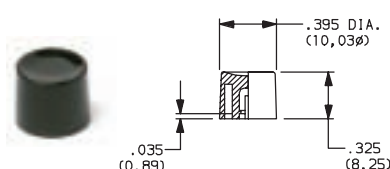
Cap
Compatible with 13-19 actuators



PART NO.
894002000 BLACK
894003000 RED

Material: Nylon
Finish: Gloss

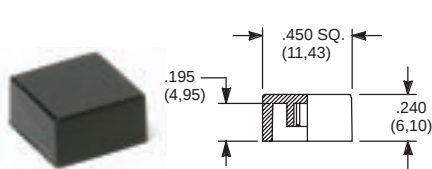
Cap
Compatible with 13-19 actuators



PART NO.
894102000 BLACK
894103000 RED

Material: Nylon
Finish: Gloss

Cap
Compatible with 13-19 actuators



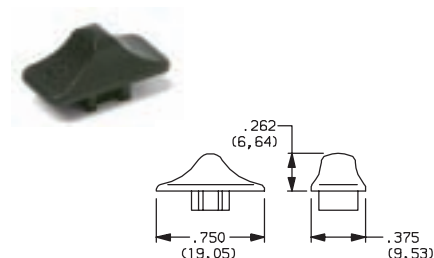
PART NO.
484602000 BLACK
484603000 RED

Material: Nylon
Finish: Gloss

PART NO.
798202263 BLACK
798203000 RED

Material: Nylon
Finish: Matte

Cap
Compatible with 01-05 actuators



PART NO.
120100602 BLACK

Material: Nylon
Finish: Matte

Splash Cap



Fits 'MS' mounting style,
LXX1 & LXX2 models only.

PART NO.
120100200

Material: Nylon

Splash Cap



Fits 'MV' mounting style,
LX1X models only.

PART NO.
120100300

Material: Nylon

Splash Cap

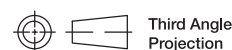


Fits 'MA' mounting style,
LXX3 models only.

PART NO.
120100400

Material: Nylon

NOTE: Other colors available,
consult Customer Service Center.



Third Angle
Projection

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

C&K

LP Series Miniature Snap-in Slide Switches

Features/Benefits

- 6 to 11 AMPS available
- Easy assembly—Snap-in mounting
- Contamination resistant—extended actuator
- Positive detent
- RoHS compliant

Typical Applications

- Small appliances
- Outdoor appliances
- Portable tools



Models Available

Specifications

CONTACT RATING: Q contact material (LP0X, LP2X Models: 6 AMPS @ 125 V AC or 28 V DC; 3 AMPS @ 250 V AC (UL/CSA). (LP7X, LP8X Models): 11 AMPS @ 125/250 V AC (UL/CSA). See page I-27 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

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

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

CONTACT RESISTANCE: Below $10 \text{ m} \Omega$ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

OPERATING TEMPERATURE: -30°C to +65°C

STORAGE TEMPERATURE: -30°C to +85°C

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

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

Materials

HOUSING: 6/6 nylon (UL94V-2), black.

ACTUATOR: Glass filled acetal, UV and petroleum resistant, black.

CONTACTS: Q contact material: Copper, silver plated. See page I-27 for additional contact materials.

TERMINALS: Q contact material: Copper, silver plated. See page I-27 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

TERMINAL SEAL: Epoxy.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-26 and J-27. For additional options not shown in catalog, consult Customer Service Center.

Switch Function LP22 DPDT, 6 AMP LP02 SPDT, 6 AMP LP81 DPST, 11 AMP LP82 DPDT, 11 AMP	Actuator C2 Black cap C1 Whitecap C3 Red cap	Detent 1 With detent	Mounting Style T2 Snap-in panel with tabs (D, L, N markings only)	Terminations 03 Solder lug with hole	Housing Markings NONE No markings D ON-OFF	Contact Material Q Silver B Gold
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Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change



Slide

LP Series Miniature Snap-in Slide Switches

SWITCH FUNCTION

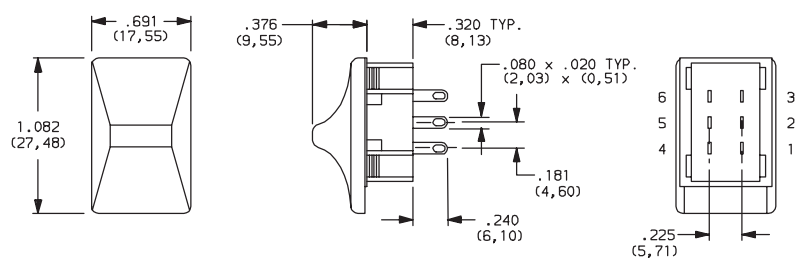
NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION	SCHEMATIC
SP	LP02	6	SPDT	

NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION	SCHEMATIC
DP	LP22	6	DPDT	
	LP81	11	DPST	
	LP82	11	DPDT	

All models with all options when ordered with 'Q' contact material.

Contacts make on side actuator thrown.

* For complete contact ratings, see CONTACT MATERIALS Section, page J-26.

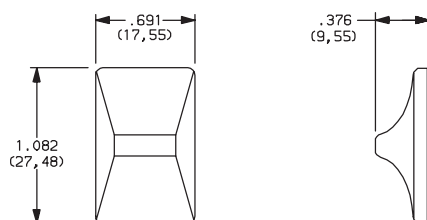


Part number shown: LP22C21S203Q

Terminal Nos.
For Reference Only

ACTUATOR

C1; C2; C3



OPTION CODE2	ACTUATOR CAP COLOR
C2	BLACK
C1	WHITE
C3	RED

NOTE: Actuator finish: gloss.
Other colors available,
consult Customer Service Center.

DETENT

1 WITH DETENT

MOUNTING STYLE

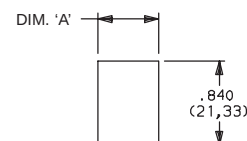
T2 SNAP-IN PANEL WITH TABS



Mounting style T2 suitable for markings.
See HOUSING MARKINGS options.

PANEL THICKNESS	DIM 'A'
.030-.045 (0,76) (1,14)	.578 (14,68)
.046-.059 (1,17) (1,50)	.585 (14,86)
.060-.089 (1,52) (2,26)	.598 (15,19)
.090-.120 (2,29) (3,05)	.610 (15,49)

PANEL MOUNTING



Third Angle
Projection

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

C&K

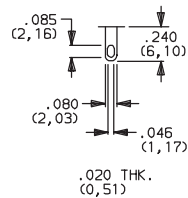


Slide

LP Series Miniature Snap-in Slide Switches

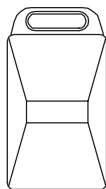
TERMINATIONS

03 SOLDER LUG WITH HOLE

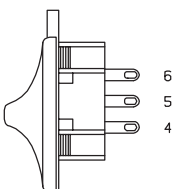
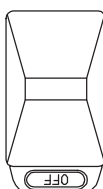
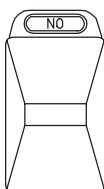


HOUSING MARKINGS

NONE NO MARKINGS



D ON-OFF



NOTE: Housing markings are available with 'T2' mounting style only. The marking color on all housings with marking options 'D' is white, standard. Other marking colors are available, consult Customer Service Center.

Orientation of actuator and terminals.

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	RATINGS	
Q	SILVER ²	POWER	LP0X, LP2X MODELS: 6 AMPS @ 125 V AC or 28 V DC; 3 AMPS @ 250 V AC (UL/CSA). LP7X, LP8X MODELS: 11 AMPS @ 125/250 V AC (UL/CSA).
B	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @20 V AC OR DC MAX.

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

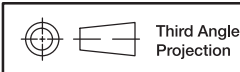
¹ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

² CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

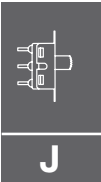
³ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate.

NOTE: Any models supplied with Q or B contact material are RoHS compliant.

All models   with all when ordered with 'Q' contact material.



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



Slide

S Series Slide Switches



Features/Benefits

- 6 to 15 AMPS
- Enclosed housing
- PC and Snap-in panel mounting
- Reversing option
- RoHS compliant

Typical Applications

- Portable tools
- Small appliances
- Floor care products



Specifications

CONTACT RATING: Q contact material (S1XX, S2XX Models): 6 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). (S5XX, S6XX Models): 12 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). (S7XX, S8XX Models): 15 AMPS @ 125 V AC; 6AMPS @ 250 V AC (UL/CSA). See page J-31 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10⁹ Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to +65°C

STORAGE TEMPERATURE: -30°C to +85°C

Materials

HOUSING: 6/6 nylon (UL94V-2), black.

TOP PLATE: 6/6 nylon (UL94V-2), black.

ACTUATOR: 6/6 nylon (UL94V-2), black (standard).

CONTACTS: Q contact material: Copper, silver plated. See page J-31 for additional contact materials.

TERMINALS: Q contact material: Copper, silver plated. See page J-31 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

TERMINAL SEAL: Epoxy.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

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

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-29 through J-32. For additional options not shown in catalog, consult Customer Service Center.



Switch Function

- S101** SPST, 6 AMPS
- S202** (DPDT, 6 AMPS
- S802** DPDT, 15 AMPS
- S102** SPDT, 6AMPS
- S112** SPDT, mom., 6 AMPS
- S201** DPST, 6 AMPS
- S602** DPDT, 12 AMPS
- S701** SPST, 15 AMPS
- S702** SPDT, 15 AMPS

Actuator

- 03** .335" high
- 04** .500" high
- 09** .250" high
- 12** Screwdriver slot (with marking)
- 13** Screwdriver slot (without marking)
- C2** Black cap
- C3** Red cap
- C5** Yellow cap

Detent

- 1** With detent
- 2** Without detent

Mounting Style

- SS** Panel with mounting ears
- MS** PC thru-hole
- S2** Snap-in panel with blacktop plate
- TS** Panel with mounting ears

Terminations

- 03** Solder lug with hole
- 02** PC Thru-hole
- 04** PC Thru-hole
- 07** Quick connect
- 08** PC Thru-hole
- WC** Wire lead

Housing Markings

- NONE** No markings
- D** ON-OFF
- L** ON
- M** ON-OFF
- N** Red rectangle on one end

Contact Material

- Q** Silver
- B** Gold
- G** Gold over silver

Seal

- NONE** No seal
- E** Epoxy seal



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

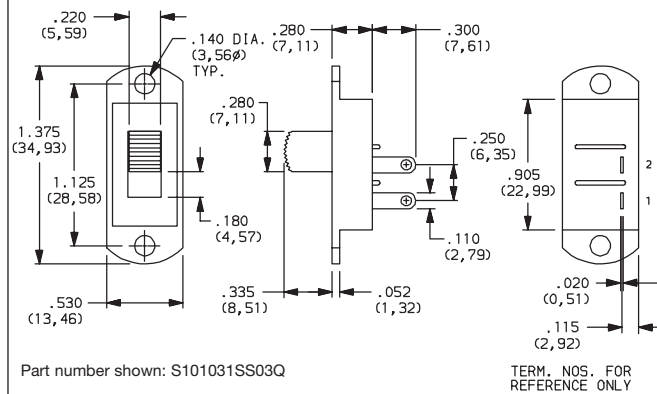
S Series Slide Switches

SWITCH FUNCTION



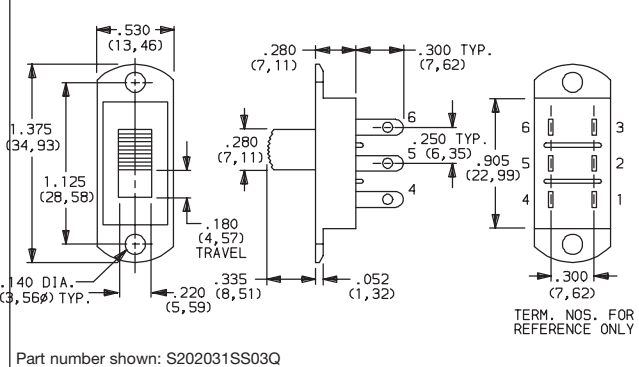
NO. POLES	MODEL NO.	AMP RATING	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
SP	S101	6	SPST		SS
	S102	6	SPDT		MS,SS
	S112	6	SPDT-MOM.		MS,SS
	S701	15	SPST		S1,S2,S3,ST
	S702	15	SPDT		S1,S2,S3,ST

SPST



NO. POLES	MODEL NO.	AMP RATING	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
DP	S201	6	DPST		MS,SS,TS
	S202	6	DPDT		MS,SS,TS
	S602	12	DPDT		MS,SS,TS
	S802	15	DPDT		S1,S2,S3,ST

DPDT



NOTE: and MOM. in table indicates momentary action.

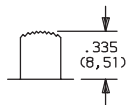
All models with all options when ordered with 'G' or 'Q' contact material.

Contacts make on side actuator thrown.

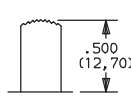
ACTUATOR



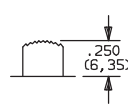
03 .335" HIGH



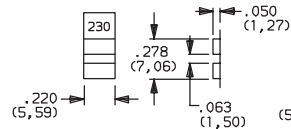
04 .500" HIGH



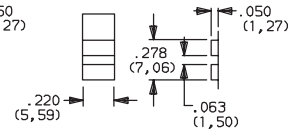
09 .250" HIGH



12 SCREWDRIVER SLOT (WITH MARKING)



13 SCREWDRIVER SLOT (WITHOUT MARKING)

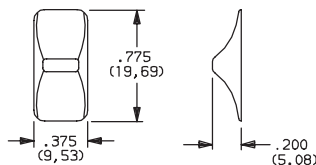


NOTE: Standard actuator color is black, other colors available, consult Customer Service Center. Alternate heights are available with '03, 04 and 09' actuators, consult Customer Service Center. Models with S2 mounting style, subtract .090 (2,29). Actuators '12' and '13' are available with DPST and DPDT models only.

White 115-230 markings (std.).

Without markings.

C2; C3; C5 SNAP-ON CAP



Available with S2 mounting style only.

OPTION CODE2	C1-CT CAP COLOR
C2	BLACK
C3	RED
C5	YELLOW

NOTE: Actuator finish: matte. If no color is specified, black will be supplied. Colored actuator caps may also be ordered separately and user installed, see page J-31.



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



DETENT

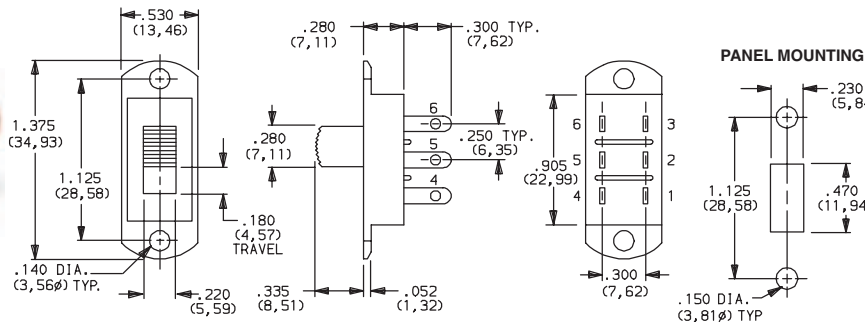
- 1 WITH DETENT
Standard with all maintained models: S101, S102, S201, S202, S602, S701, S702, and S802.
- 2 WITHOUT DETENT
Standard with all momentary models: S112.

MOUNTING STYLE

SS PANEL WITH MOUNTING EARS



S202031SS03Q
DPDT



AVAILABLE WITH:

Models: S101, S102, S112, S201, S202 and S602

Terminations: All except 08

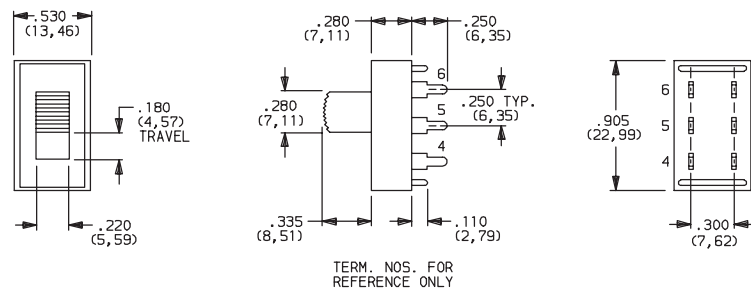
Actuators: 03, 04, 09, 12* and 13*.

*12 and 13 actuators not available with S1XX models.

MS PC THRU-HOLE



S202031MS02Q
DPDT



AVAILABLE WITH:
Models: S101, S102, S112,
S201, S202, S602
Terminations: 02, 04 and 08
Actuators: 03, 04, 09, 12* and 13*
*12 and 13 actuators available with
S201, S202 and S602 models only.

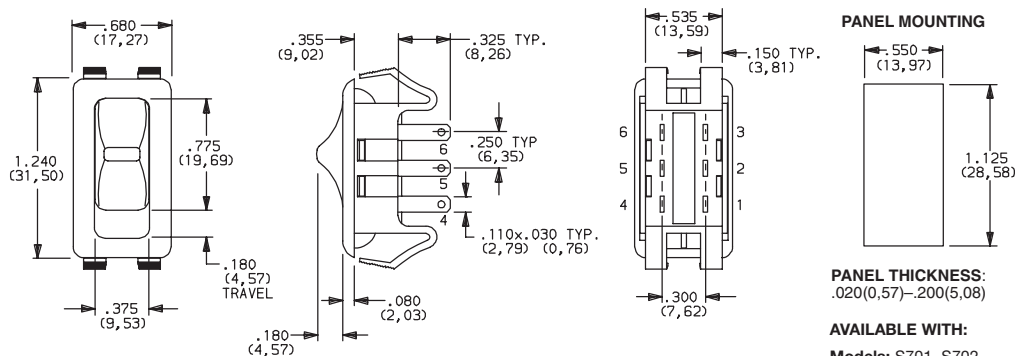
PC MOUNTING

For mounting information, see
TERMINATIONS section, page J-30.

S2 SNAP-IN PANEL



S802C21S207Q
DPDT



PANEL THICKNESS:
.020(0,57)–.200(5,08)

AVAILABLE WITH:
Models: S701, S702,
 and S802
Terminations: 04, 07, 57 and WC
Actuators: C2, C3, C5 and 03

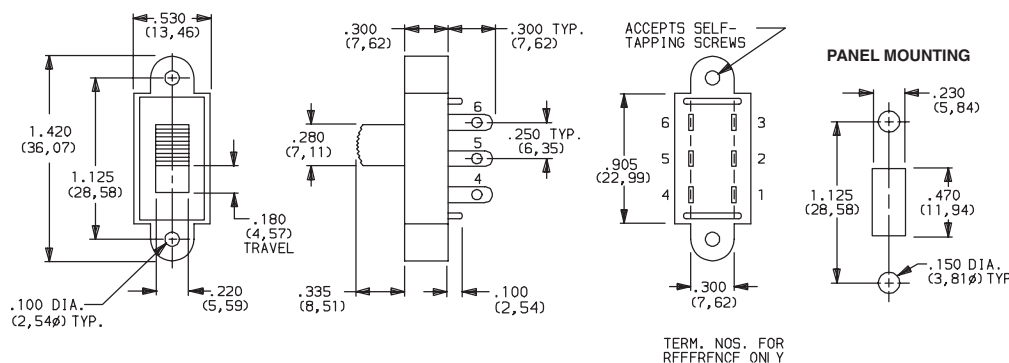


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

S Series Slide Switches

MOUNTING STYLE

TS PANEL WITH MOUNTING EARS

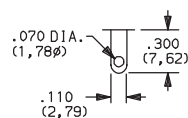


S202031TS03Q
DPDT

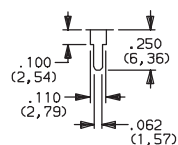
AVAILABLE WITH:
Models: S201, S202, and S602
Terminations: All
Actuators: 03, 04 and 12.

TERMINATIONS

03 SOLDER LUG WITH HOLE

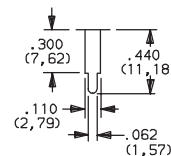


02 PC THRU-HOLE



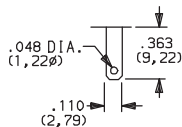
Recommended with 'MS' mounting style only.

04 PC THRU-HOLE

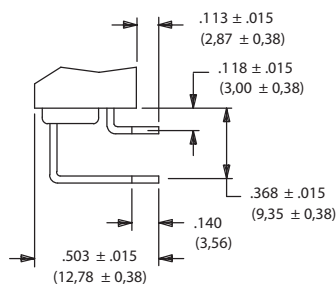


Recommended with double pole models only.

07 QUICK CONNECT

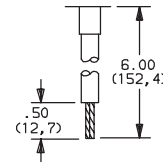


08 PC THRU-HOLE



MS mounting style only.

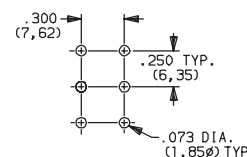
WC WIRE LEAD



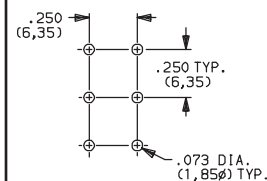
18 AWG wire for S1XX and S2XX models.
 16 AWG wire for all other models. Black wire standard, other colors and lengths available, consult Customer Service Center.
 UL style 1015.

PC MOUNTING

02 & 04 terminations



08 terminations with MS mounting style.

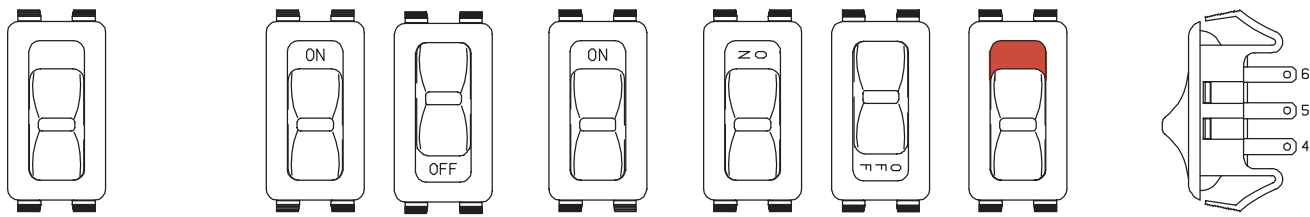


NOTE: All terminals on S1XX, S2XX and S6XX models are .020 (0,51) thick; all terminals on S7XX and S8XX models are .031 (0,79) thick.

S Series
Slide Switches

TOP PLATE MARKINGS

NONE NO MARKINGS **D** ON-OFF **L** ON **M** ON-OFF **N** RED RECTANGLE ON ONE END



NOTE: Top plate markings are available with 'S2' mounting style only. The marking color on all top plates with marking options 'D, L and M' is white, standard. (except white top plates: marking color is black, standard). The marking color on all top plates with 'N' marking option is red, standard. Other marking colors are available, consult Customer Service Center.

Note: Orientation of actuator markings and terminals.

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	RATINGS	
Q	SILVER ²	POWER	S1XX, S2XX MODELS: 6 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). S6XX MODELS: 12 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). S7XX, S8XX MODELS: 15 AMPS @ 125 V AC; 6 AMPS @ 250 V AC (UL/CSA).
B	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @20 V AC OR DC max.
G	GOLD OVER SILVER ³	LOW LEVEL/DRY CIRCUIT OR POWER	S1XX, S2XX MODELS: 0.4 VA MAX. @ 20 V AC OR DC MAX. OR 6 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). S6XX MODELS: 0.4 VA MAX. @ 20 V AC OR DC MAX. OR 12 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). S7XX, S8XX MODELS: 0.4 VA MAX. @ 20 V AC OR DC MAX. OR 15 AMPS @ 125 V AC; 6 AMPS @ 250 V AC (UL/CSA).

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

¹ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

² CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

³ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate.

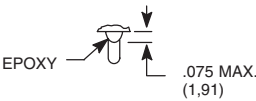
NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

All models with all options when ordered with 'G' or 'Q' contact material.

NOTE: 'G' contact material is equivalent to both 'B' and 'Q' contact materials.

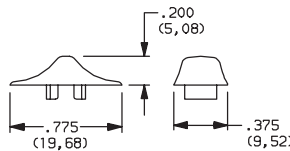
SEAL

NONE NO SEAL **E** EPOXY SEAL



AVAILABLE HARDWARE

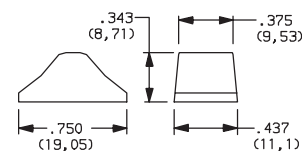
Cap, C2; C3 actuators



PART NO.
121160100 WHITE
121160200 BLACK
121160300 RED

Material: 6/6 Nylon
Finish: Matte

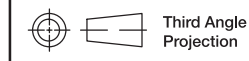
Cap, 03 actuator



PART NO.
121000101 WHITE
121000102 BLACK
121000103 RED

Material: 6/6 Nylon
Finish: Gloss

NOTE: Other cap colors available, consult Customer Service Center.



Third Angle
Projection

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



V Series Power & Line Voltage Select Slide Switches

Features/Benefits

- Ratings up to 10 AMPS
- Snap-in panel and PC mounting
- Actuators with screwdriver slot
- Quick connect terminals available
- RoHS compliant



Typical Applications

- Appliances



Specifications

CONTACT RATING: 10.1 AMPS @ 125 V AC; 4 AMPS @ 28 V DC;
5 AMPS @ 250 V AC (UL/CSA). 2.0 (0.5) AMPS @ 250 V AC,
T85 (VDE).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial
@ 2-4 V DC, 100 mA.

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

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to +85°C.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

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

Materials

HOUSING: 6/6 nylon (UL94V-2), black.

TOP PLATE: 6/6 nylon (UL94V-2), black.

ACTUATOR: Glass filled polyester (UL94V-0), '01 and 02' styles,
black (standard); '12, 13 and 14' styles, red (standard).

CONTACTS: Copper, silver plated.

TERMINALS: Copper, silver plated.

CONTACT SPRING: Music wire or stainless steel.

TERMINAL SEAL: Epoxy.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-34 through J-36. For additional options not shown in catalog, consult Customer Service Center.

Switch Function V802 DPDT V701 SPST V702 SPDT V801 DPST	Actuator 12 Screwdriver slot 01 .290" high 02 .290" high with markings 13 Screwdriver slot 14 Screwdriver slot with markings	Mounting Style SS Panel with mounting ears MA Right angle, PC thru-hole MS PC Thru-hole S2 Snap-in panel SL Right angle, panel with mounting ears	Terminations 05 Quick connect 02 PC thru-hole 08 Right angle PC thru-hole	Contact Material Q Silver	Seal NONE No seal E Epoxy seal



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



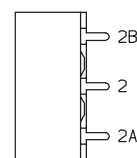
Slide

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
DP	V801	DPST		ALL
	V802	DPDT		ALL

ACTUATOR

14 SCREWDRIVER SLOT WITH MARKINGS



Note: Orientation of actuator markings and terminals.

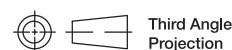
MOUNTING STYLE

AVAILABLE WITH:
Models: All.
Terminations: 02 and 05

Technical drawing of a component with dimensions in inches and millimeters:

- Top-left corner: $.245 \times .045$ (6, 22) (1, 14)
- Top width: 1.031 (26, 19)
- Right height: .650 (16, 50)
- Bottom-left pin: 1B
- Bottom-center pin: 1
- Bottom-right pin: 1A
- Bottom-left pin spacing: .346 TYP. (8, 80)
- Bottom-right pin spacing: .157 TYP. (4, 00)
- Internal label: 230V

PC mount, side actuated.
For mounting information,
see **TERMINATIONS** section, page J-35.

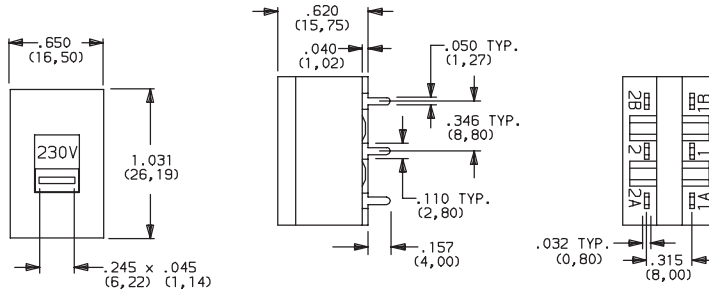


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

V Series Power & Line Voltage Select Slide Switches

MOUNTING STYLE

MS PC THRU-HOLE



AVAILABLE WITH:

All models with 02 terminations

PC MOUNTING

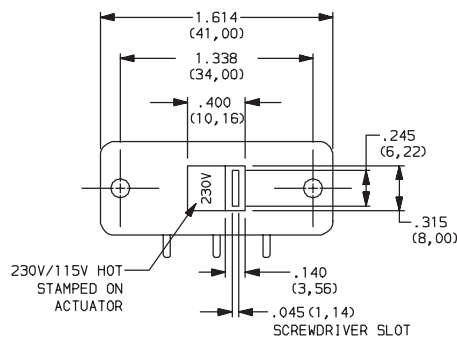
PC mount, top actuated.
For mounting information,
see TERMINATIONS section, page J-35.



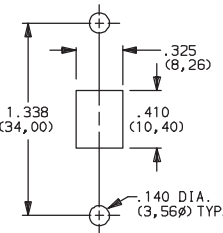
V80212MS02Q

DPDT

SL RIGHT ANGLE PANEL WITH MOUNTING EARS



PANEL MOUNTING



AVAILABLE WITH:

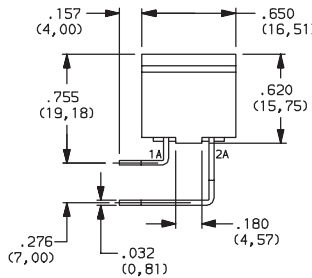
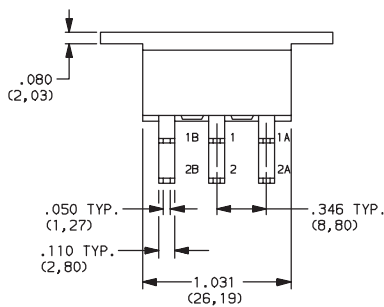
All models with 08 terminations



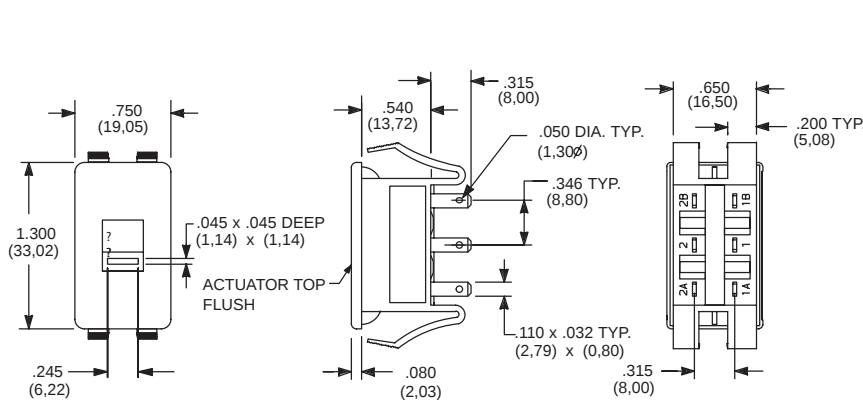
V80213SL08Q

Horizontal Actuation

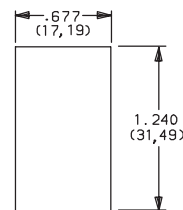
DPDT



S2 SNAP-IN PANEL MOUNT



PANEL MOUNTING



Panel thickness:

.020-.200 THK.
(0,50) (5,08)

AVAILABLE WITH:

All models with 02 &
05 terminations



V80212S205Q

DPDT



Third Angle
Projection

C&K

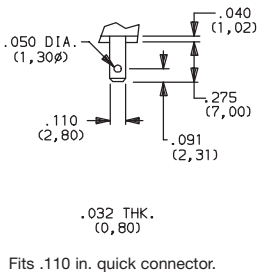
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

V Series

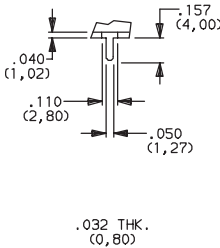
Power & Line Voltage Select Slide Switches

TERMINATIONS

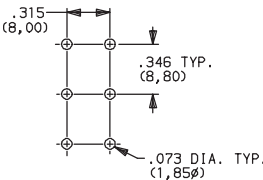
05 QUICK CONNECT



02 PC THRU-HOLE

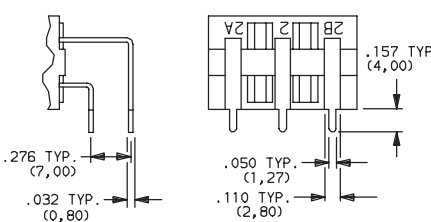


PC MOUNTING



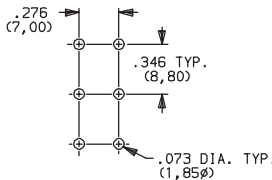
MS, SS Mounting Styles.

08 PC THRU-HOLE



Not available with 'MS, SS or S2' mounting styles.

PC MOUNTING



MA, SL Mounting Styles.

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	RATINGS	
Q	SILVER ¹	POWER	10.1 AMPS @ 125 V AC; 4 AMPS @ 28 V DC; 5 AMPS @ 250 V AC (UL/CSA); 2.0 (0.5) AMPS @ 250 V AC, T85 (VDE).

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

¹ CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

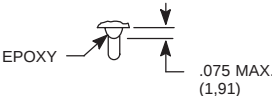
All models   with all options. V70X and V80X models   .

NOTE: Any models supplied with Q contact material are RoHS compliant.

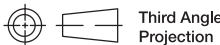
SEAL

NONE NO SEAL

E EPOXY SEAL



C&K



Third Angle
Projection

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

OS Series Miniature Slide Switches

Features/Benefits

- Variety of actuators & terminations
- PC and panel mounting
- Gold or silver plating available
- Shorting or non-shorting contacts
- RoHS compliant

Typical Applications

- Test & measurement equipment
- Computer peripherals & network products
- Consumer products



Specifications

CONTACT RATING: See individual parts.
MECHANICAL & ELECTRICAL LIFE: 10,000 cycles.
CONTACT RESISTANCE: 20 m Ω or less.
INSULATION RESISTANCE: 100 m Ω min. at 500 VDC.
DIELECTRIC STRENGTH: 500 VAC for 1 minute.
OPERATING TEMPERATURE: -10°C to +70°C.
PACKAGING: Bulk

* For RoHS compatible switches contact customer service.

Materials

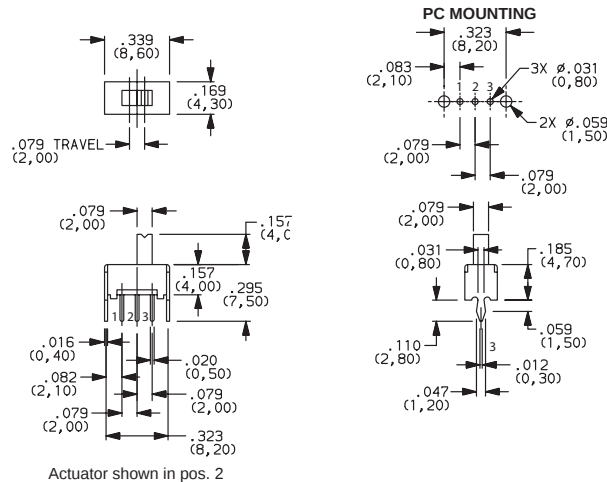
BASE: Phenolic resin.
ACTUATOR: POM, black.
HOUSING PLATE: SPCC Sn plated.
MOVABLE CONTACT: Copper alloy, silver plated or gold.
STATIONARY CONTACTS: Brass, silver plated.
TERMINALS: Brass, silver plated (Gold plate - Contact customer service).
TERMINAL SEAL: None.

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

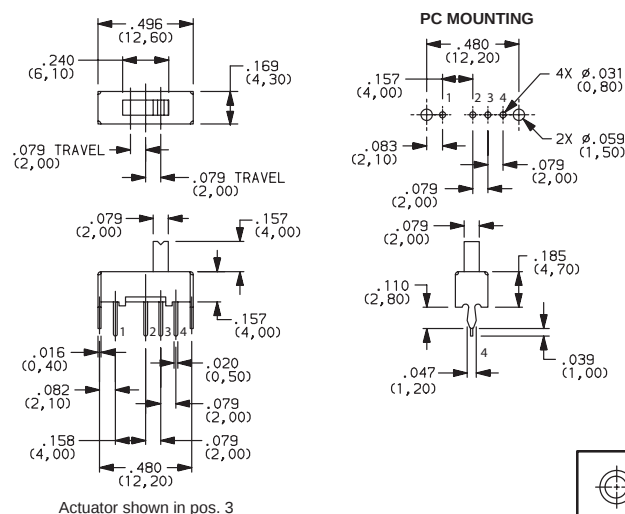
Complete part numbers for OS Series Slide Switches are shown on pages J-37 through J-43.

PART NUMBER	SWITCH FUNCTION	
	POS. 1	POS. 2
OS102011MS2QN1 (Non-shorting)	ON	ON
OS102011MS2QS1 (Shorting)	ON	ON
CONN. TERMINALS	1-2	2-3
SCHEMATIC		
SPDT		
CONTACT RATING: 0.1A @ 12 VDC		



OS102011MS2QN1
SPDT

PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
OS103011MS8QP1 (Non-specified)	ON	ON	ON
CONN. TERMINALS	1-2	2-3	2-4
SCHEMATIC			
SP3T			
CONTACT RATING: 0.1A @ 12 VDC			



OS103011MS8QP1
SP3T



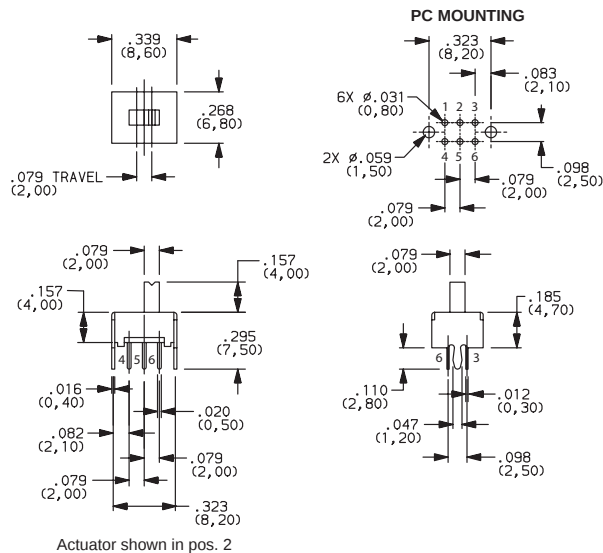
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

OS Series

Miniature Slide Switches



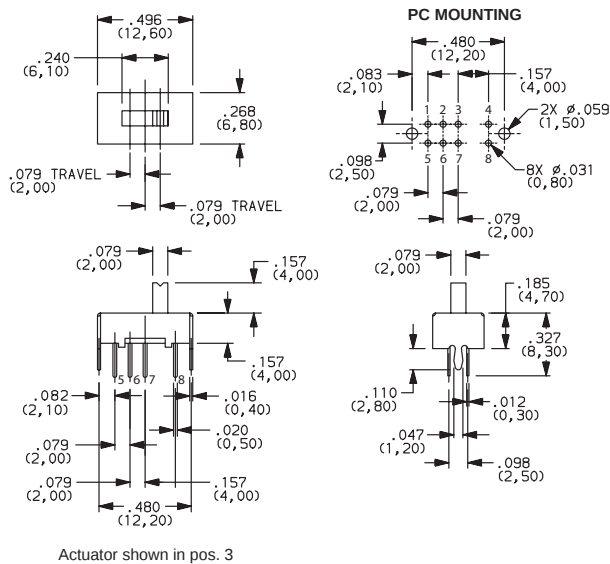
OS202011MS2QS1
DPDT



PART NUMBER	SWITCH FUNCTION	
	POS.1	POS. 2
OS202011MS2QS1 (Shorting)	ON	ON
OS202011MS2QN1 (Non-shorting)	ON	ON
CONN. TERMINALS	1-2,4-5	2-3,5-6
SCHEMATIC		
DPDT		
CONTACT RATING: 0.1A @ 12 VDC		



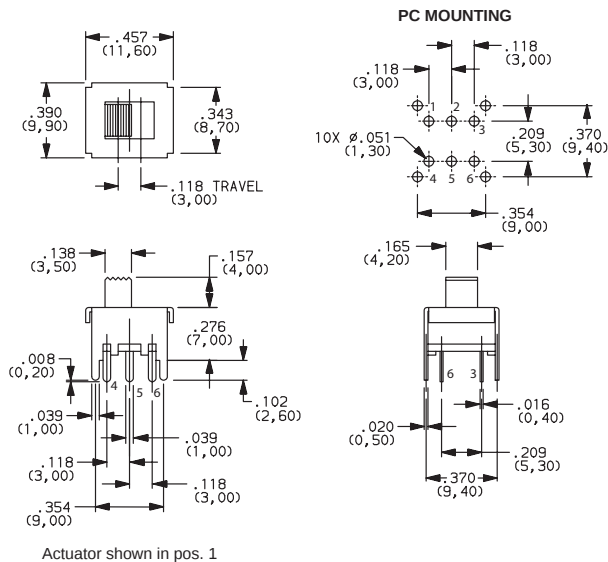
OS203011MS1QP1
DP3T



PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
OS203011MS1QP1 (Non-specified)	ON	ON	ON
CONN. TERMINALS	1-3,5-7	2-3,6-7	3-4,7-8
SCHEMATIC			
DP3T			
CONTACT RATING: 0.3A @ 30 VDC			

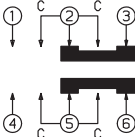


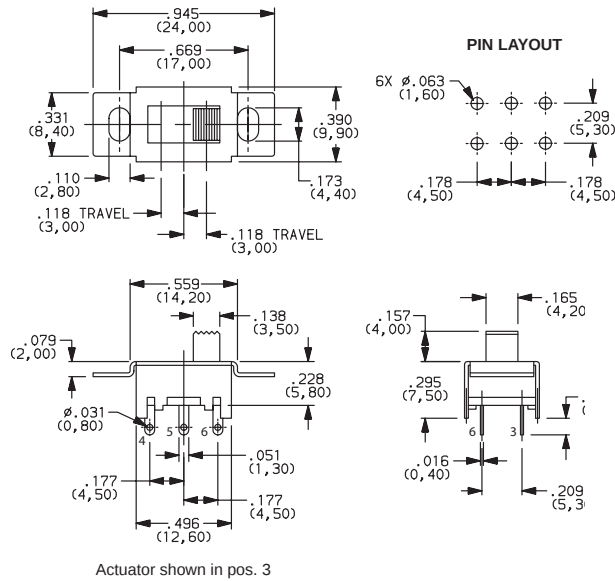
OS202013MT5QN1
DPDT



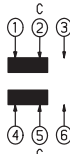
PART NUMBER	SWITCH FUNCTION	
	POS.1	POS. 2
OS202013MT5QN1 (Non-shorting)	ON	ON
CONN. TERMINALS	1-2,4-5	2-3,5-6
SCHEMATIC		
DPDT		
CONTACT RATING: 0.3A @ 30 VDC		

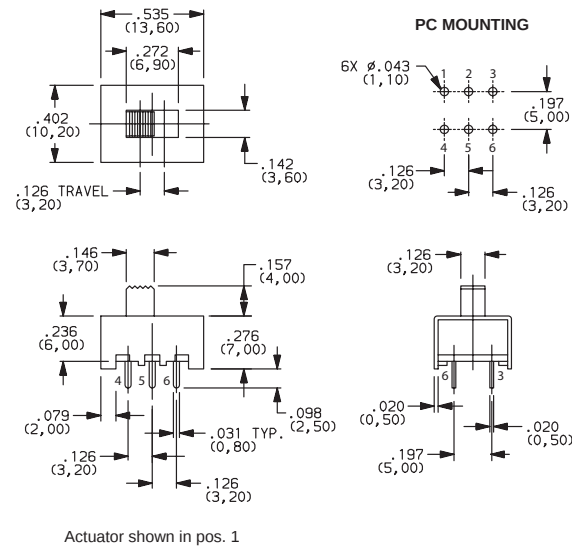
OS Series Miniature Slide Switches

PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
			
OS203013MT7QN1 (Non-shorting)	ON	OFF	ON
CONN. TERMINALS	1-2,4-5		2-3,5-6
SCHEMATIC			
DP3T			
CONTACT RATING: 0.3A @ 30 VDC			

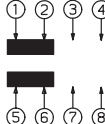


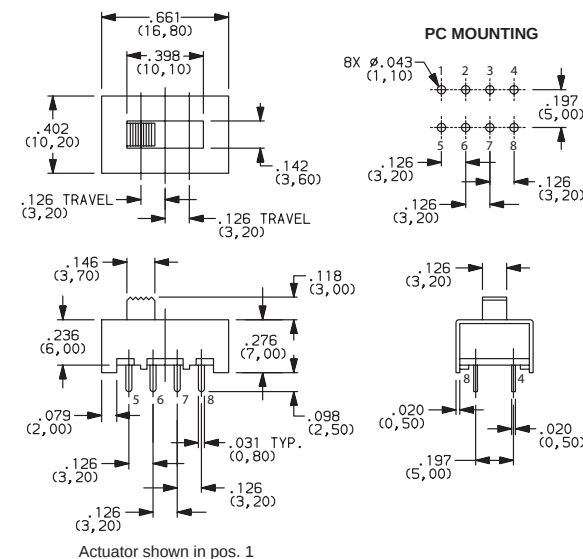
OS203013MT7QN1
DP3T

PART NUMBER	SWITCH FUNCTION	
	POS.1	POS. 2
		
OS202013MT8QN1 (Non-shorting)	ON	ON
CONN. TERMINALS	1-2,4-5	2-3,5-6
SCHEMATIC		
		
DPDT		
CONTACT RATING: 0.3A @ 30 VDC		



OS202013MT8QN1
DPDT

PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
			
OS203013MT8QN1 (Non-shorting)	ON	ON	ON
CONN. TERMINALS	1-2,5-6	2-3,6-7	3-4,7-8
SCHEMATIC			
DP3T			
CONTACT RATING: 0.3A @ 30 VDC			



OS203013MT8QN1
DP3T



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

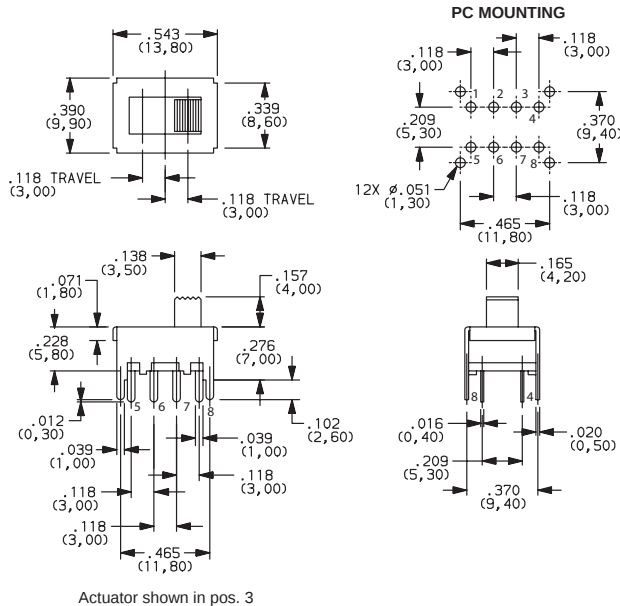


OS Series

Miniature Slide Switches



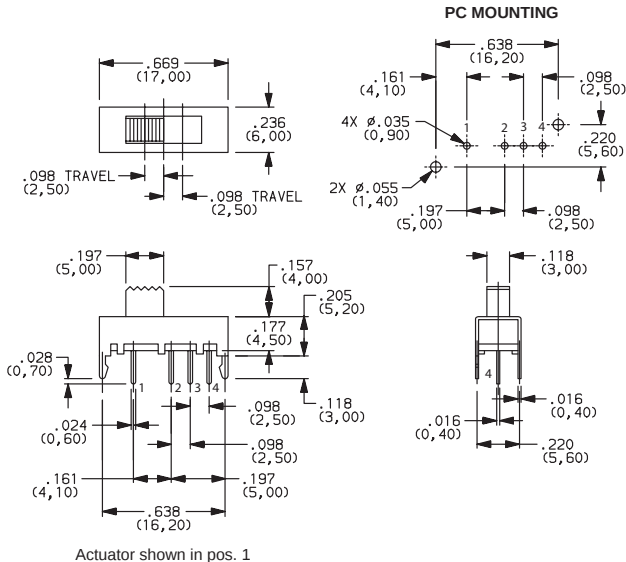
OS203013MT6QN1
DP3T



PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
OS203013MT6QN1 (Non-shorting)	ON	ON	ON
CONN. TERMINALS	1-2,5-6	2-3,6-7	3-4,7-8
SCHEMATIC			
CONTACT RATING: 0.2A @ 30 VDC			



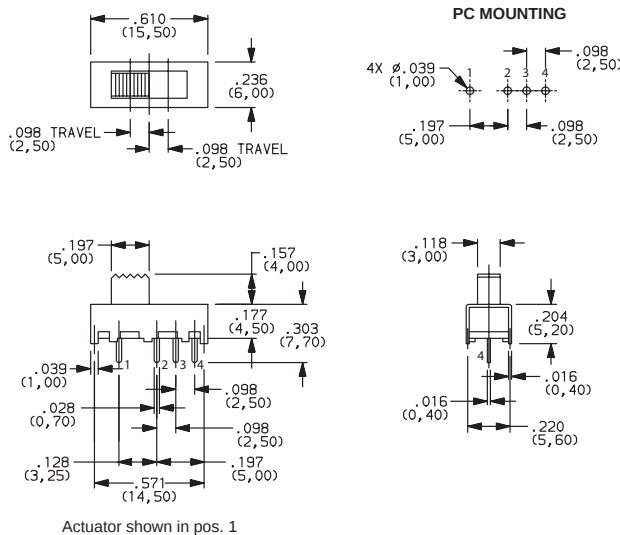
OS103012MU1QP1
SP3T



PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
OS103012MU1QP1 (Non-shorting)	ON	ON	ON
CONN. TERMINALS	1-2	2-3	2-4
SCHEMATIC			
CONTACT RATING: 0.2A @ 30 VDC			

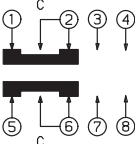


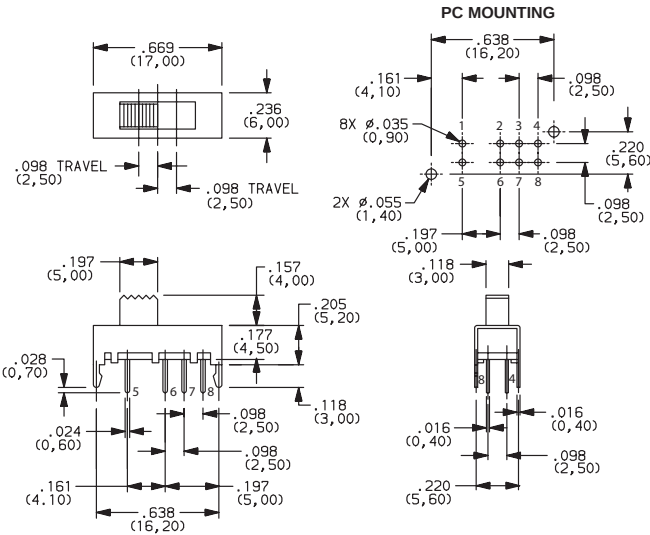
OS103012MU2QP1
SP3T



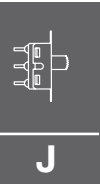
PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
OS103012MU2QP1 (Non-shorting)	ON	ON	ON
CONN. TERMINALS	1-2	2-3	2-4
SCHEMATIC			
CONTACT RATING: 0.2A @ 30 VDC			

OS Series Miniature Slide Switches

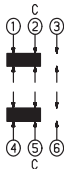
PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
			
OS203012MU5QP1 (Non-specified)	ON	ON	ON
CONN. TERMINALS	1-2,5-6	2-3,6-7	2-4,6-8
SCHEMATIC			
DP3T			
CONTACT RATING: 0.1A @ 30 VDC			

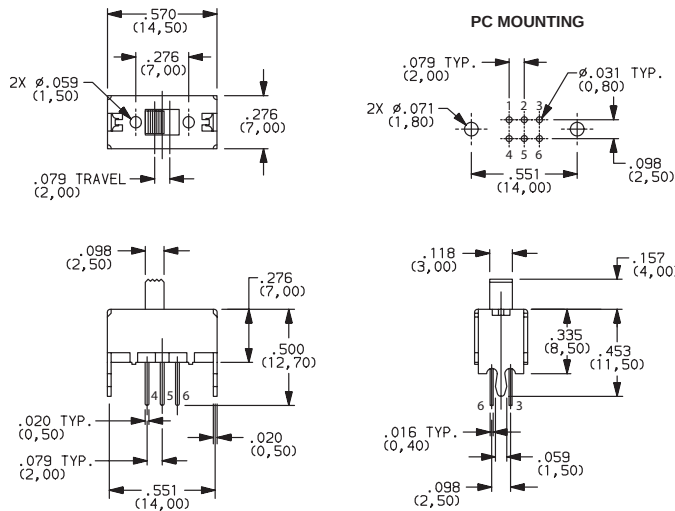


OS203012MU5QP1
DP3T

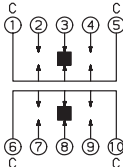


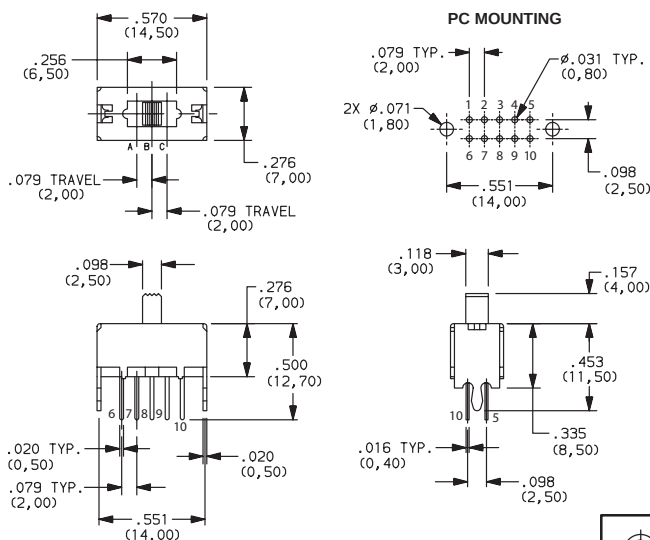
Slide

PART NUMBER	SWITCH FUNCTION	
	POS.1	POS. 2
		
OS202011MV4QN1 (Non-shorting)	ON	ON
OS202011MV4QS1 (Shorting)	ON	ON
CONN. TERMINALS	1-2,4-5	2-3,5-6
SCHEMATIC		
DPDT		
CONTACT RATING: 0.1A @ 30 VDC		



OS202011MV4QN1
DPDT

PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
			
OS203011MV9QS1 (Shorting)	ON	ON	ON
OS203011MV9QN1 (Non-shorting)	ON	ON	ON
CONN. TERMINALS	1-2-5, 6-7-10	1-3-5, 6-8-10	1-4-5, 6-9-10
SCHEMATIC			
DP3T			
CONTACT RATING: 0.1A @ 30 VDC			



OS203011MV9QS1
DP3T



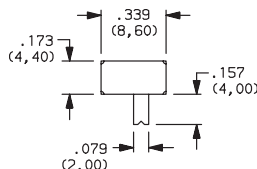
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

OS Series

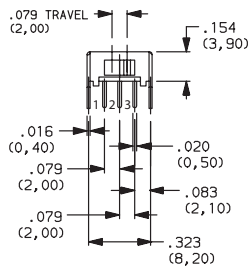
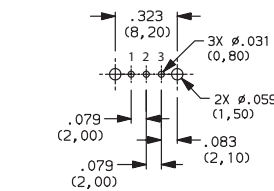
Miniature Slide Switches



OS102011MA1QN1
SPDT



PC MOUNTING

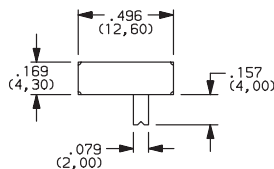


Actuator shown in pos. 2

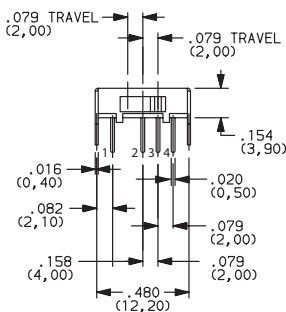
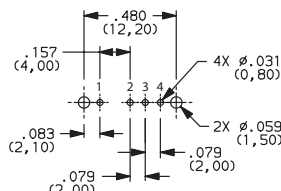
PART NUMBER	SWITCH FUNCTION	
	POS.1	POS. 2
OS102011MA1QN1 (Non-shorting)	ON	ON
OS102011MA1QS1 (Shorting)	ON	ON
CONN. TERMINALS	1-2	2-3
SCHEMATIC		
SPDT		
CONTACT RATING: 0.1A @ 12 VDC		



OS103011MA7QP1
SP3T



PC MOUNTING

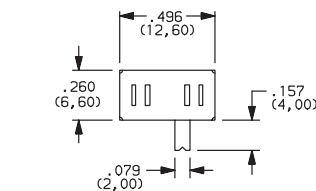


Actuator shown in pos. 3

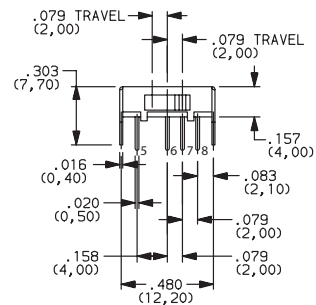
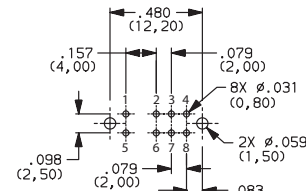
PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
OS103011MA7QP1 (Non-specified)	ON	ON	ON
CONN. TERMINALS	1-2	2-3	2-4
SCHEMATIC			
SP3T			
CONTACT RATING: 0.1A @ 12 VDC			



OS203011MA2QP1
DP3T



PC MOUNTING



Actuator shown in pos. 3

PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
OS203011MA2QP1 (Non-specified)	ON	ON	ON
CONN. TERMINALS	1-2,5-6	2-3,6-7	2-4,6-8
SCHEMATIC			
DP3T			
CONTACT RATING: 0.1A @ 12 VDC			

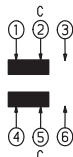


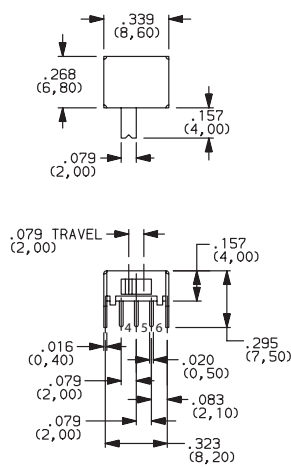
Third Angle
Projection

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

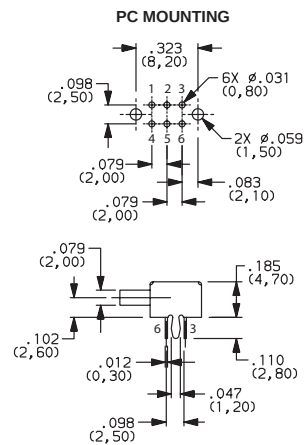
www.ck-components.com

OS Series Miniature Slide Switches

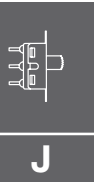
PART NUMBER	SWITCH FUNCTION	
	POS.1	POS. 2
		
OS202011MA0QN1 (Non-shorting)	ON	ON
OS202011MA0QS1 (Shorting)	ON	ON
CONN. TERMINALS	1-2,4-5	2-3,5-6
SCHEMATIC		
		
DPDT		
CONTACT RATING: 0.1A @ 12 VDC		



Actuator shown in pos. 1



OS202011MA0QN1
DPDT



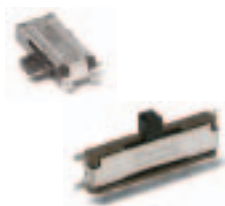
Slide



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

J

Slide



Typical Applications

- **Ultraminiature surface mount**
- **Low profile**
- **SPDT & SP3T models**
- **RoHS compliant**
- **Computer peripherals & network products**
- **Telecommunication products**
- **Test & measurement equipment**

Materials

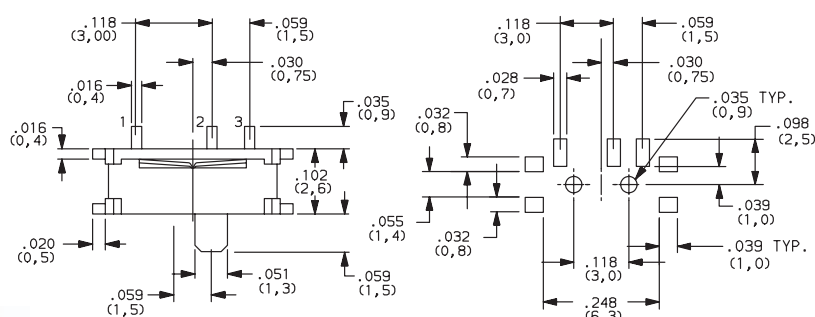
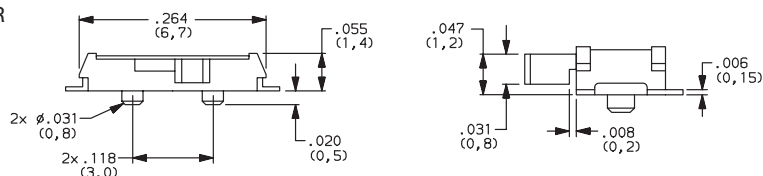
CASE: P.P.S.
COVER: Stainless steel.
SLIDER: Nylon 4/6
BRUSH: Copper alloy silver clad.
TERMINALS: Copper alloy, silver plated.

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 PCM Series Ultraminiature Surface Mount Slide Switches are shown below and on page J-45.

PC MOUNTING

PCM12SMTR
SPDT

Actuator shown in pos. 2

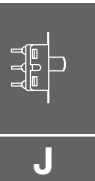
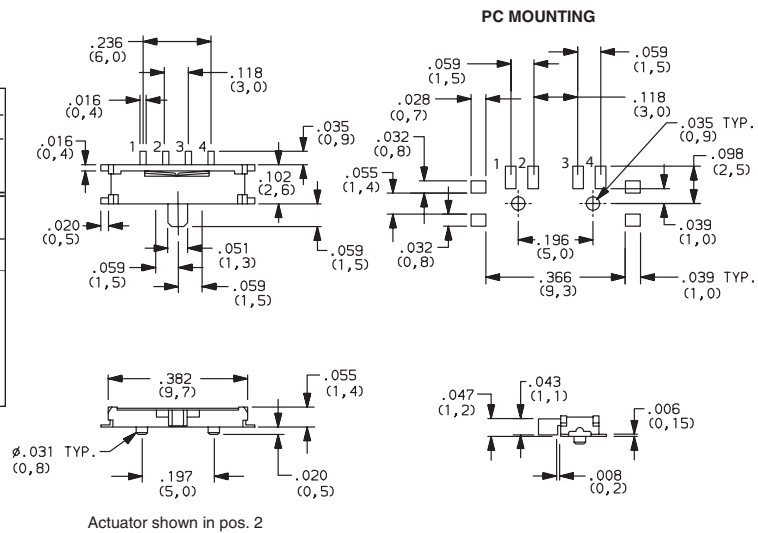
PART NUMBER	SWITCH FUNCTION	
	POS. 1	POS. 2
		
PCM12SMTR	ON	ON
CONN. TERMINALS	1-2	2-3
SCHEMATIC 		
SPDT		



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

PCM Series Slide Switches

PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
			
PCM13SMTR	ON	ON	ON
CONN. TERMINALS	1-3	2-3	3-4
SCHEMATIC			
			
SP3T			

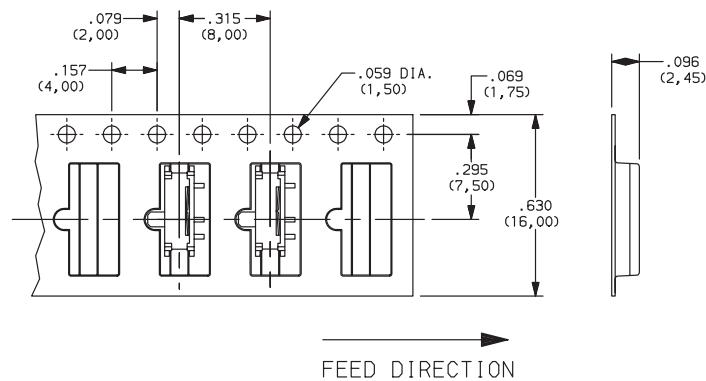


Slide

TAPE & REEL

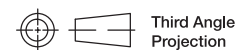
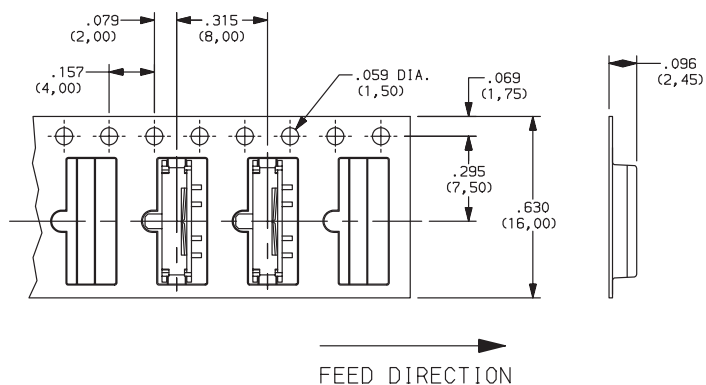
For part number PCM12SMTR

Quantity per reel 3500



For part number PCM13SMTR

Quantity per reel 3500



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

AYZ Series Miniature Slide Switches



Features/Benefits

- Low profile
- Single & double pole models
- Double & triple throw models
- RoHS compatible

Typical Applications

- Computer peripherals & network products
- Telecommunication products
- Test & measurement equipment

Specifications

MAX. SWITCHING POWER: 1.2 VA
MAX. SWITCHING VOLTAGE: 12 VDC
MAX. SWITCHING CURRENT: 100 mA
MECHANICAL LIFE: 10,000 operations.
CONTACT RESISTANCE: <80m Ω
INSULATION RESISTANCE: >10⁸ Ω
DIELECTRIC STRENGTH: 0.1 kV at 50 Hz/1 min.
OPERATING TEMPERATURE: -10°C to +60°C
PACKAGING: Tape & reel, see page J-47.

Materials

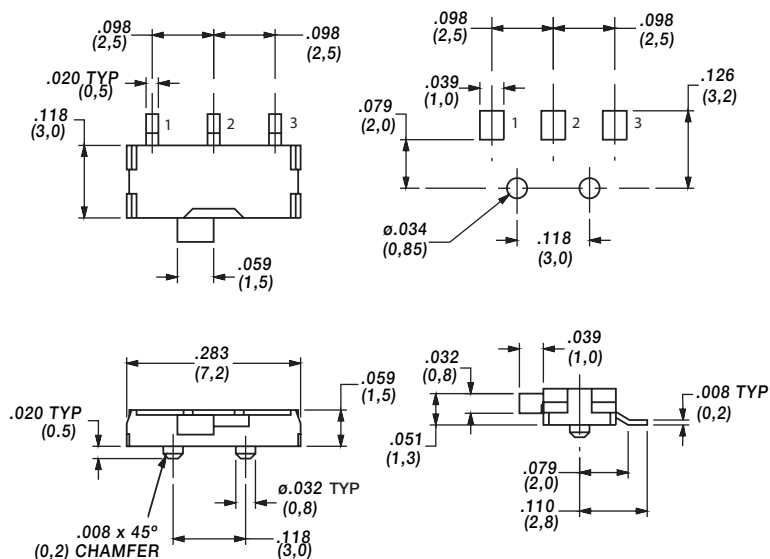
HOUSING: Glass filled PPS (UL 94V-0).
ACTUATOR: Glass filled nylon 6/6 (UL 94V-0), except options ending in C which are glass filled nylon 4/6 (UL94V-0).
COVER: Nickel silver.
MOVABLE CONTACT: Copper alloy, silver plated.
FIXED CONTACT: Brass, silver plated.
CONTACT SPRING: Contact bronze.

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 AYZ Series Miniature Slide Switches are shown on pages J-46 through J-48.

PC MOUNTING



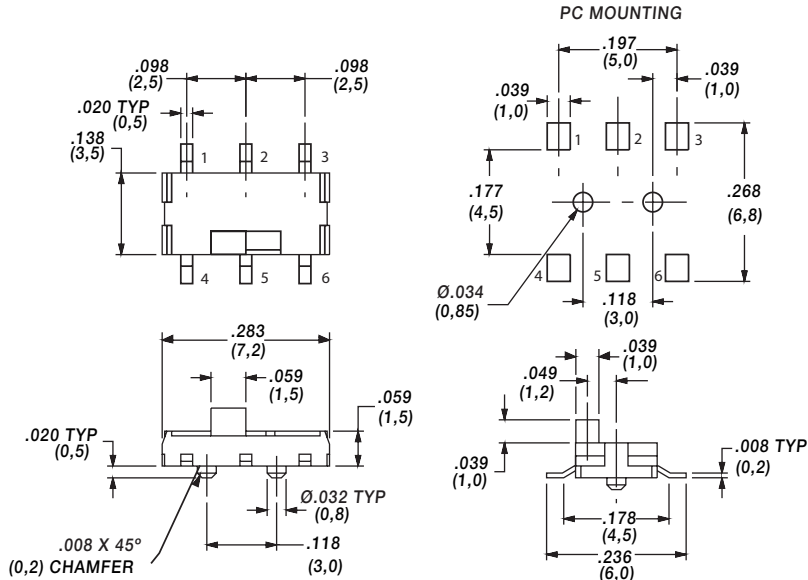
SWITCH SHOWN IN POSITION 1

PART NUMBER	RoHS Compliant	RoHS Compatible	SWITCH FUNCTION	
			POS.1	POS.2
AYZ0102AGRLC	YES	YES	ON	ON
CONN. TERMINALS			1-2	2-3
SCHEMATIC				
SPDT				

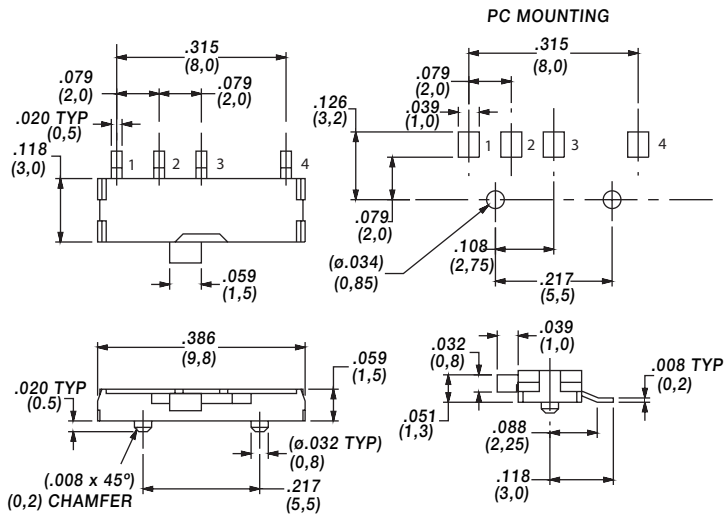


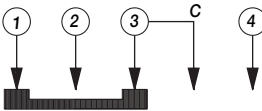
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

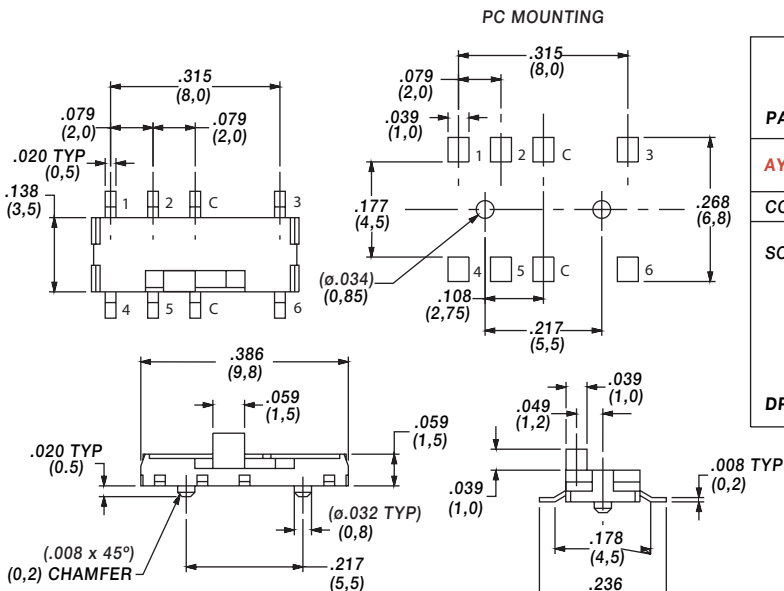
AYZ Series Miniature Slide Switches

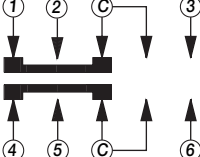


PART NUMBER			SWITCH FUNCTION	
	RoHS Compliant	RoHS Compatible	POS.1	POS.2
AYZ0202AGRLC	YES	YES		
CONN. TERMINALS			1-2,4-5	2-3,5-6
SCHEMATIC				
DPDT				



PART NUMBER			SWITCH FUNCTION		
	ROHS Compliant	ROHS Compatible	POS.1	POS.2	POS.3
AYZ0103AGRLC	YES	YES	ON	ON	ON
CONN. TERMINALS			1-3	2-C	3-4
SCHEMATIC					
					
SP3T					



PART NUMBER			SWITCH FUNCTION		
			POS.1	POS.2	POS.3
	ROHS Compliant	ROHS Compatible			
AYZ0203AGRLC	YES	YES	ON	ON	ON
CONN. TERMINALS			1-C,4-C	2-C,5-C	3-C,6-C
SCHEMATIC					
DP3T					

C&K

SWITCH SHOWN IN POSITION 1



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



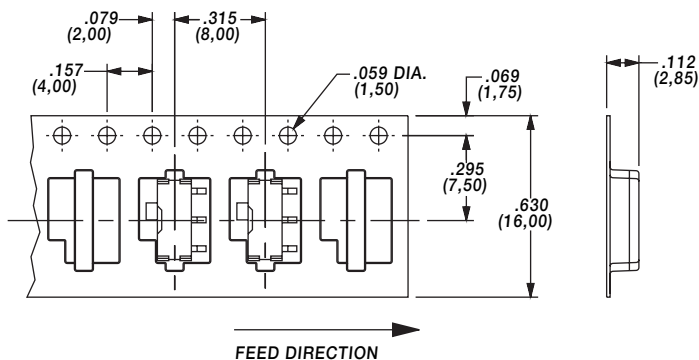
Slide

AYZ Series Miniature Slide Switches

TAPE & REEL

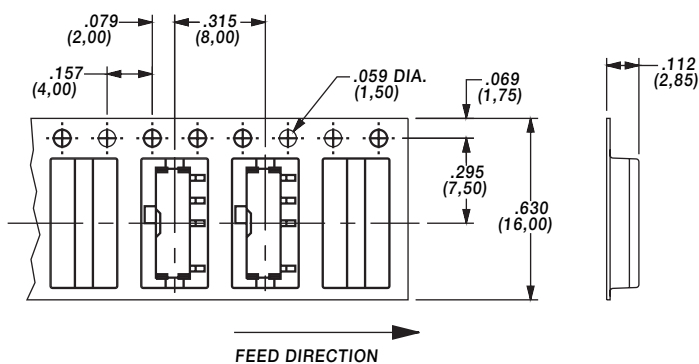
For part number AYZ0102AGRLC

Quantity per reel 4000



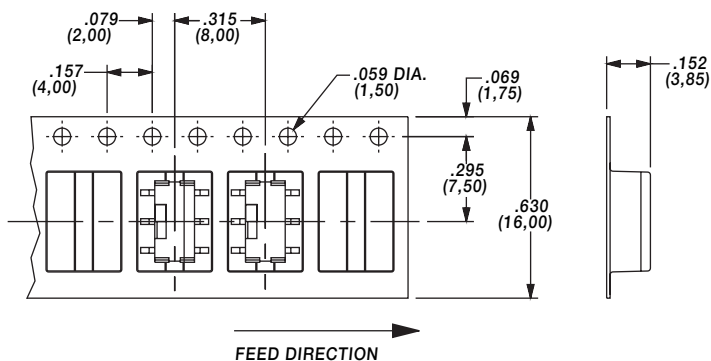
For part number AYZ0103AGRLC

Quantity per reel 4000



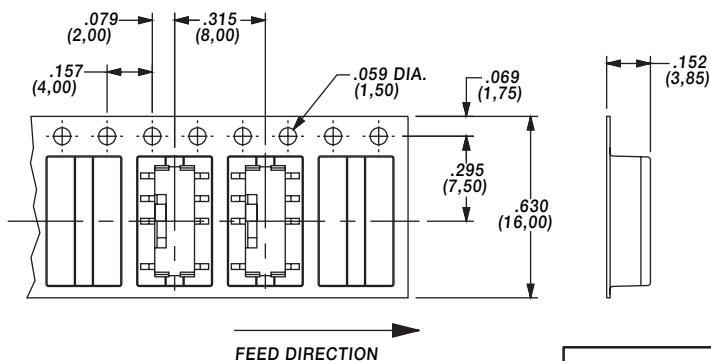
For part number AYZ0202AGRLC

Quantity per reel 3000



For part number AYZ0203AGRLC

Quantity per reel 3000



Third Angle
Projection

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

C&K

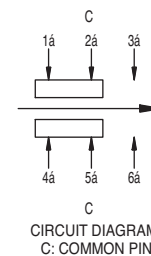
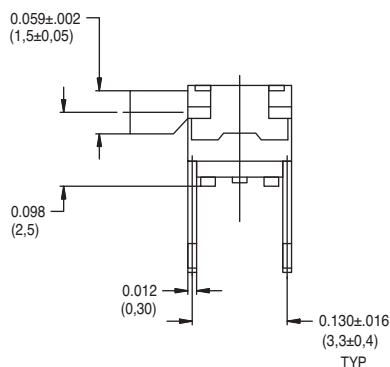
Slide

- switch**

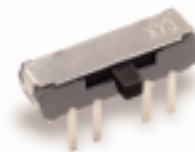
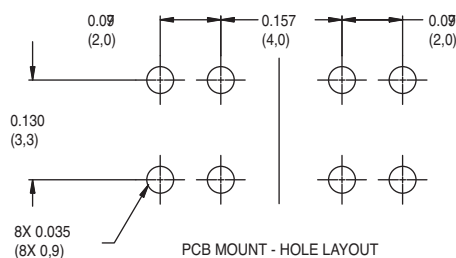
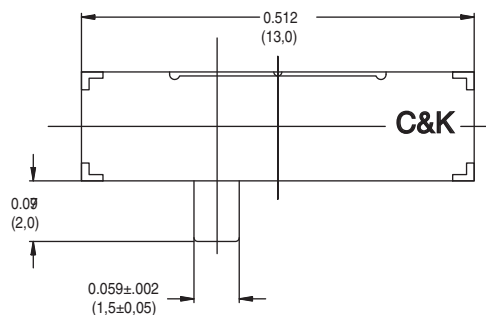
RIGHT ANGLE, PC THRU-HOLE



Shown in position 1a

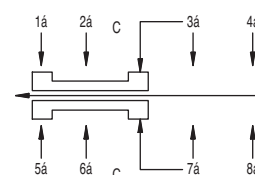
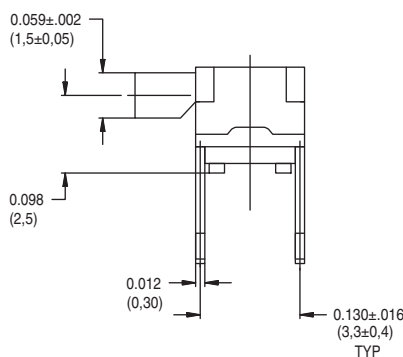
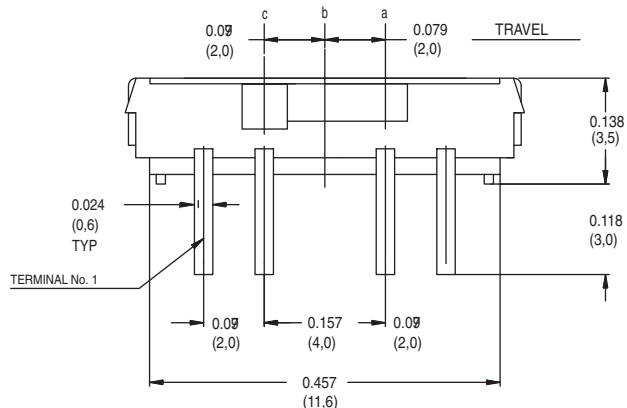


JS Series Sub-Miniature Slide Switches



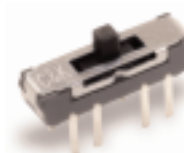
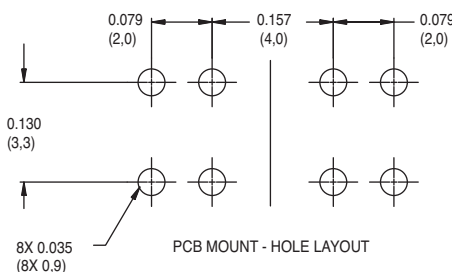
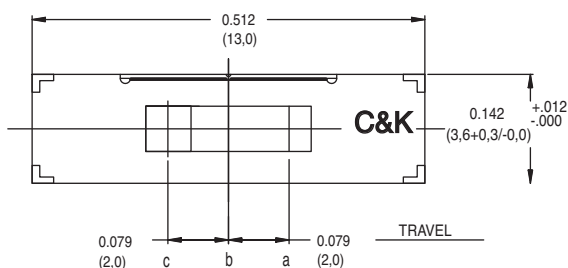
Part Number
JS203011AQN
DP3T

Shown in position 1a



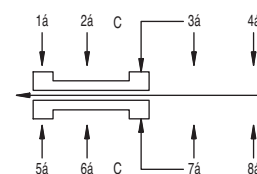
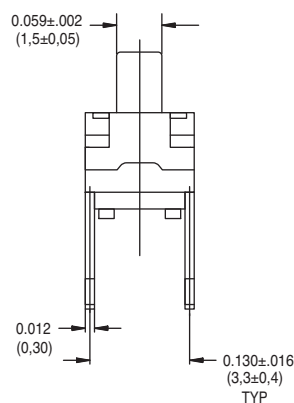
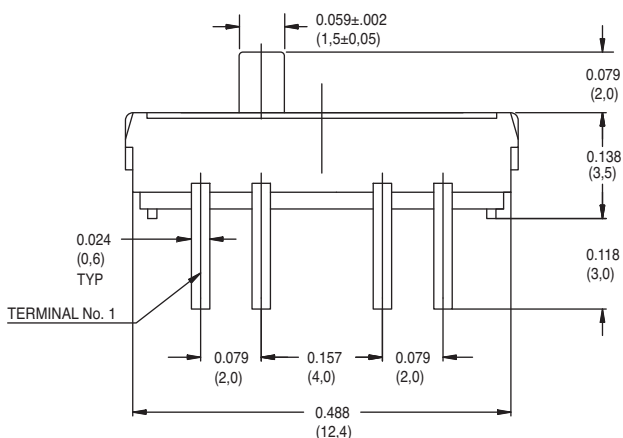
CIRCUIT DIAGRAM
C: COMMON PIN

PC THRU-HOLE



Part Number
JS203011CQN
DP3T

Shown in position 1a

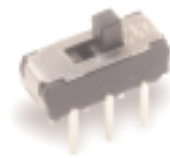
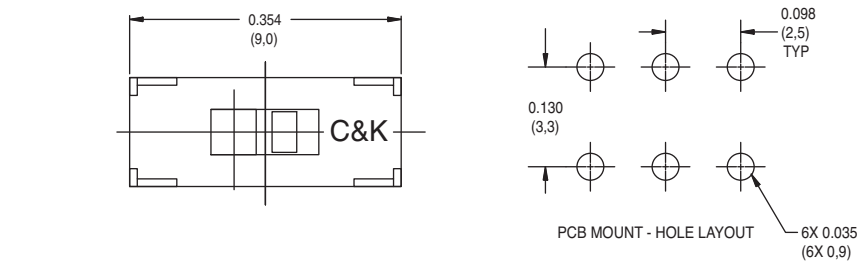


CIRCUIT DIAGRAM
C: COMMON PIN



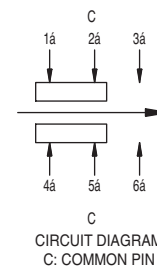
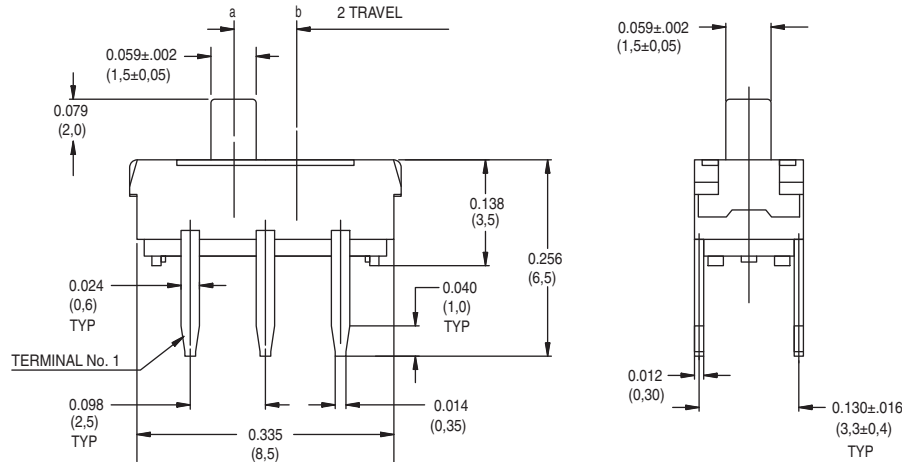
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

JS Series Sub-Miniature Slide Switches

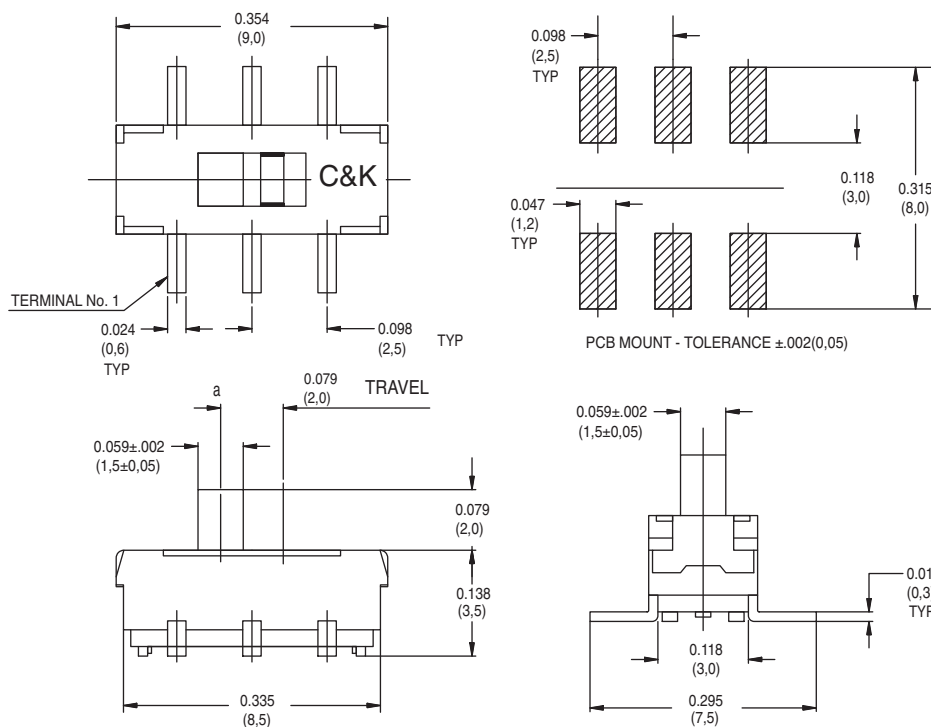


Part Number
JS202011CQN
DPDT

Shown in position 1a



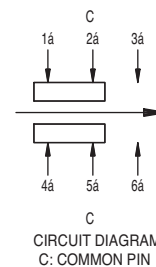
SURFACE MOUNT



Part number
JS202011SCQN
DPDT

Shown in position 1a

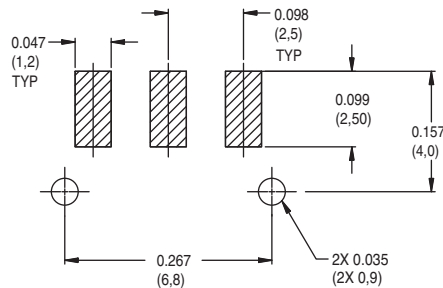
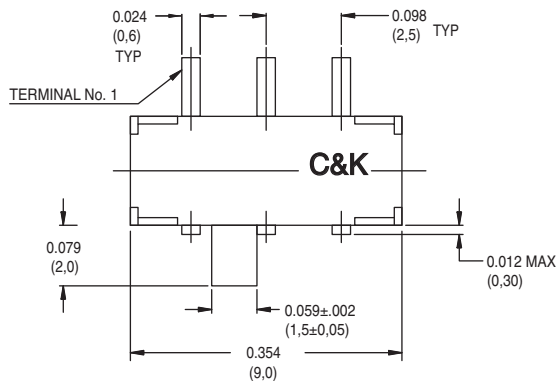
Available in tape & reel
only, see page J-53



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

JS Series Sub-Miniature Slide Switches

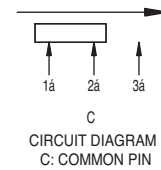
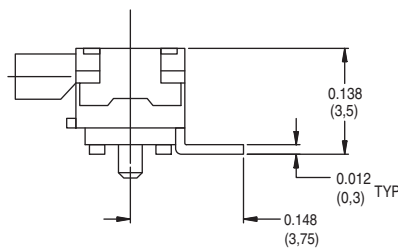
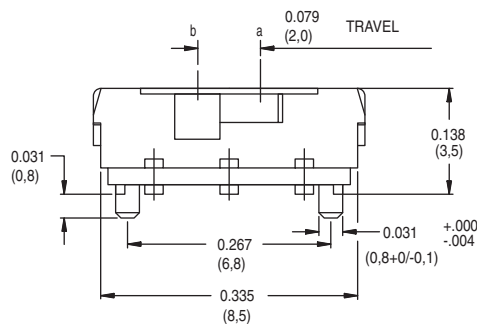
RIGHT ANGLE SURFACE MOUNT



Part Number
JS102011SAQN
SPDT

Shown in position 1a

Available in tape & reel
only, see page J-53



RIGHT ANGLE SURFACE MOUNT
LOW PROFILE .028±.004 (0.7±0.1) HIGH

Specifications

CONTACT RATING: 5 VDC @ 1MA

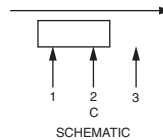
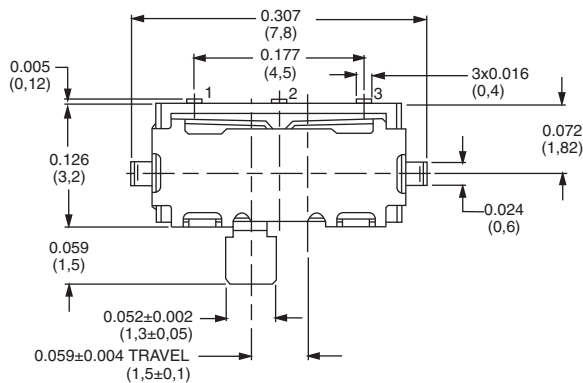
ELECTRICAL LIFE: 10,000 cycles.

CONTACT RESISTANCE: <100 m ohms (initial) <200 m ohms (after processing).

INSULATION RESISTANCE: 100 m ohms @500 VDC.

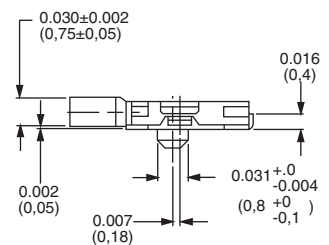
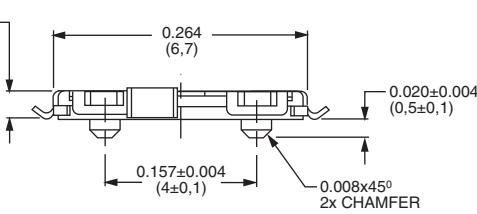
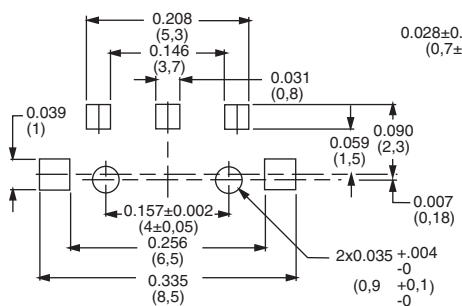
DIELECTRIC STRENGTH: 250 VAC.

OPERATING TEMPERATURE: -20°C to +70°C



Part Number
JS102000SAQN
SPDT

Available in tape & reel
only, see page J-53



RECOMMENDED PC MOUNTING



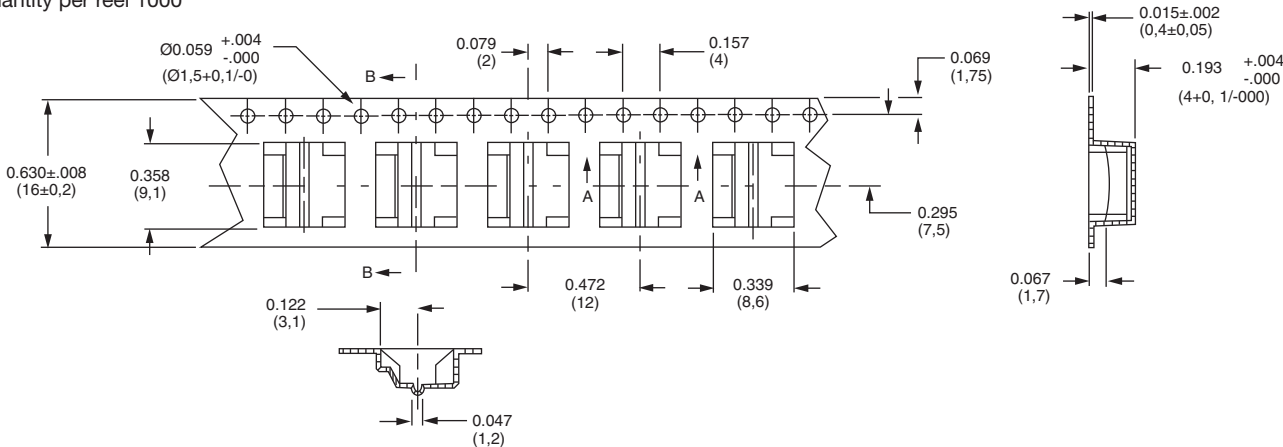
Third Angle
Projection
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

C&K

JS Series Sub-Miniature Slide Switches

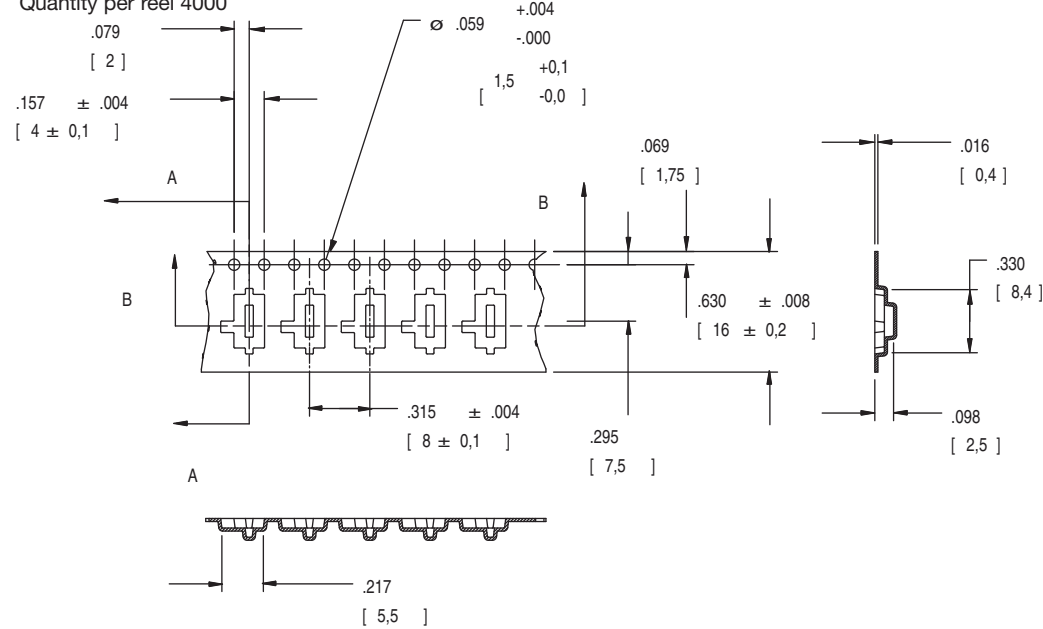
TAPE AND REEL FOR PART NUMBER JS10211SAQN

Quantity per reel 1000



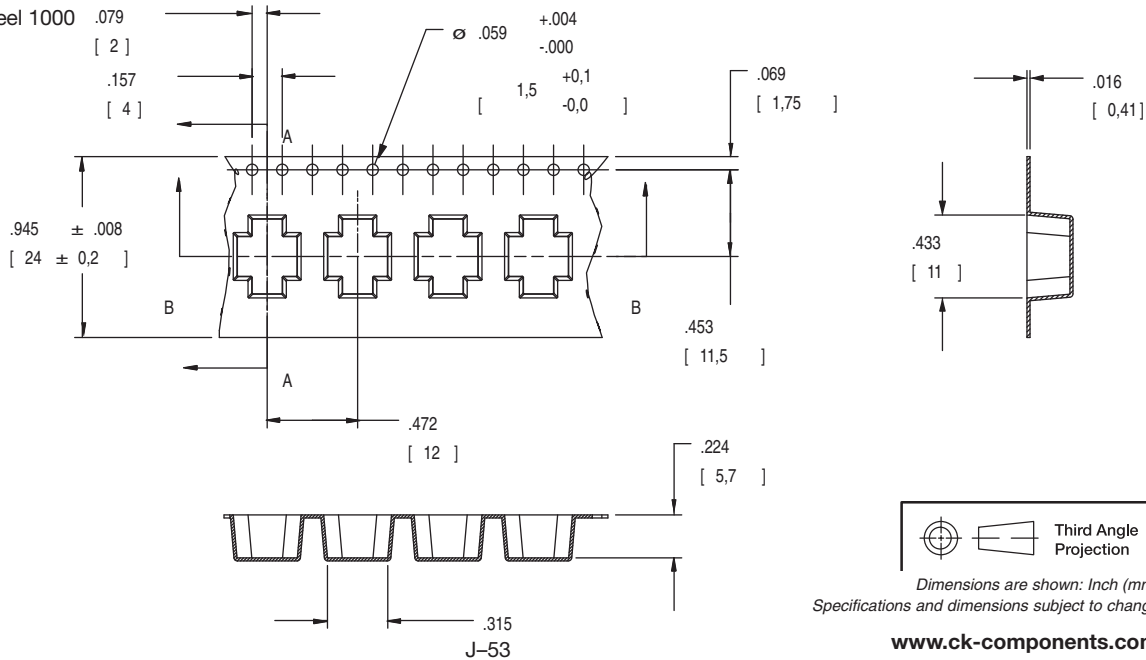
TAPE AND REEL FOR PART NUMBER JS102000SAQN

Quantity per reel 4000



TAPE AND REEL FOR PART NUMBER JS202011SCQN

Quantity per reel 1000



C&K

Third Angle Projection

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

www.ck-components.com

JSM Series Sub-Miniature Slide Switches

Features/Benefits

- RoHS compliant and meets all requirements of RoHS directive 2002/95/EC
- Positive detent
- Low profile
- IR reflow to 260° solder profile
- Surface and thru hole mounting
- Maintained and momentary functions;
- SPDT, SP3T models

Typical Applications

- Telecommunication products
- Computer peripherals
- Thermostat select switch
- Instrumentations



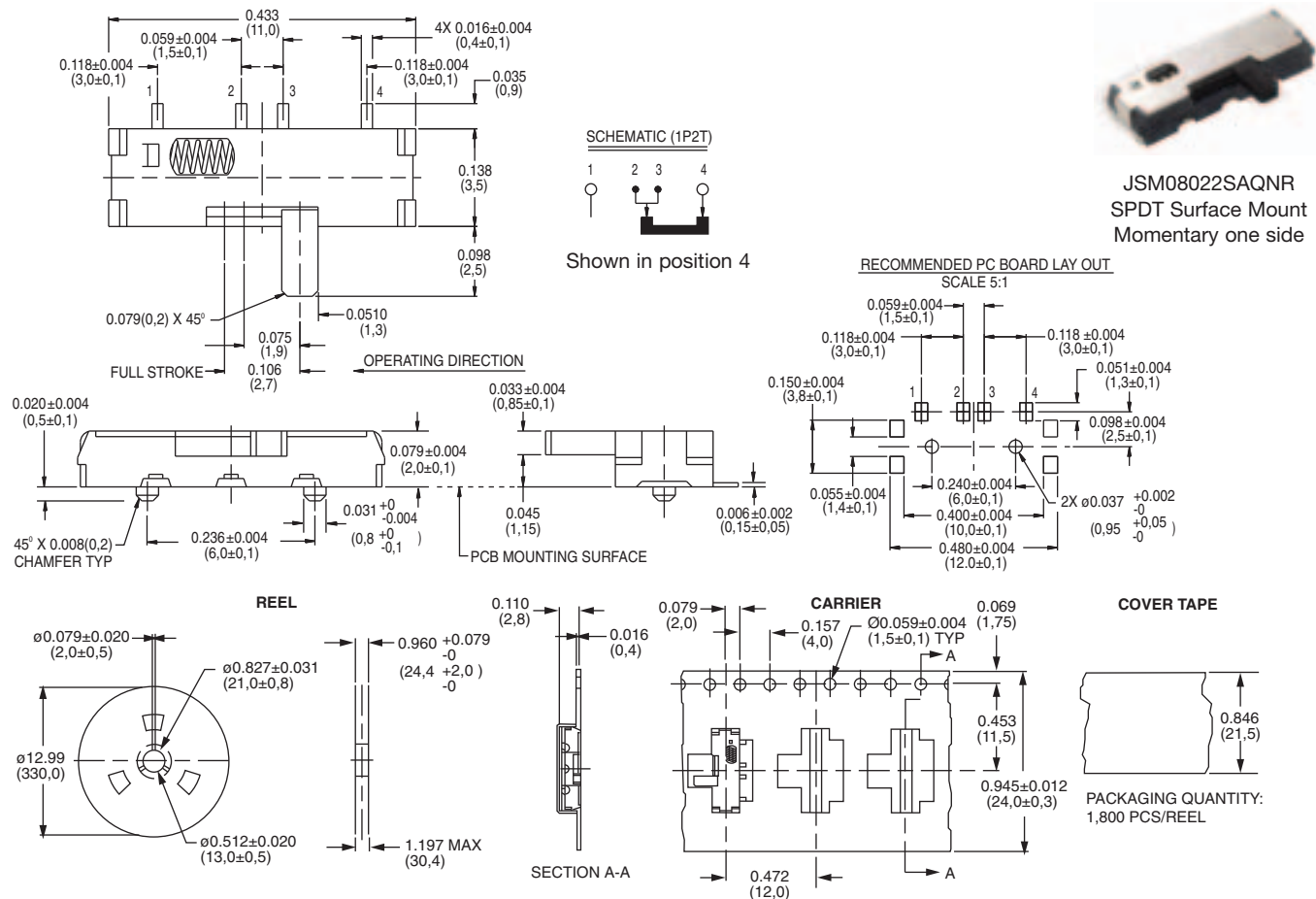
Specifications

CONTACT RATING: 4 VDC @ 0.3A
ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.
CONTACT RESISTANCE: 70 mΩ max initial.
INSULATION RESISTANCE: 100 ohms @500 VDC
DIELECTRIC STRENGTH: 100 VAC min. @ sea level.
OPERATING TEMPERATURE: -10°C to +60°C
STORAGE TEMPERATURE: -30°C to +85°C

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

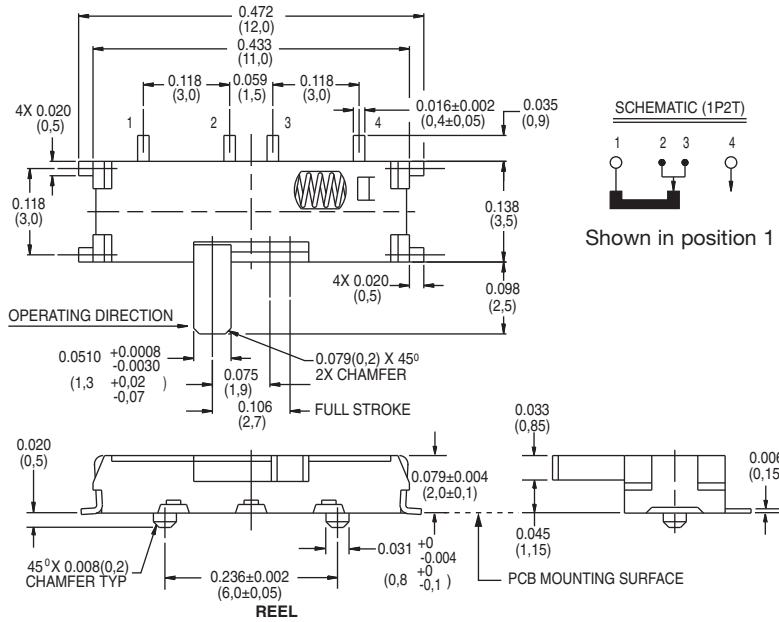
Materials

HOUSING: LCP, Glass filled
ACTUATOR: 4/6 nylon (UL94V-2), black.
CONTACTS: Beryllium copper, silver plated.
TERMINALS: Brass, silver plated.
COVER: Stainless steel
RETURN SPRING: Stainless steel



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

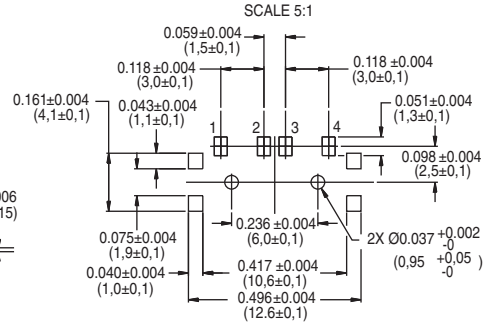
JSM Series Sub-Miniature Slide Switches



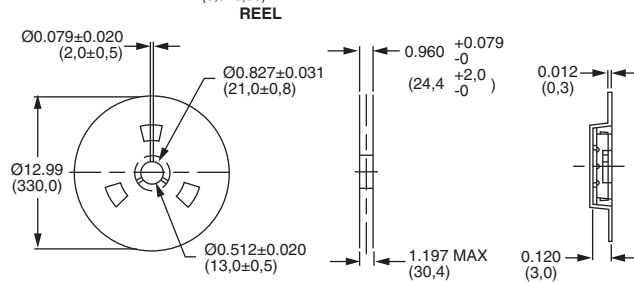
SCHEMATIC (1P2T)

Shown in position 1

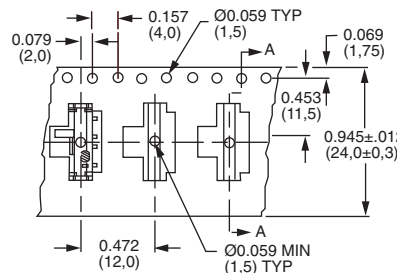
RECOMMENDED PC BOARD LAY OUT



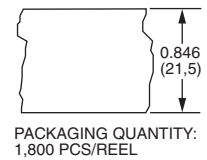
JSM08022SAQNL
SPDT Surface Mount
Momentary only



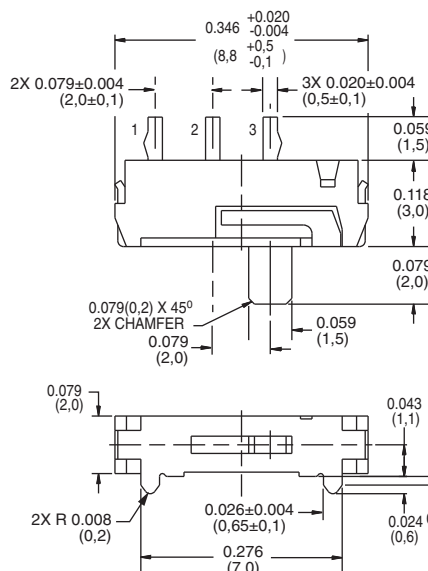
CARRIER TAPE



COVER TAPE



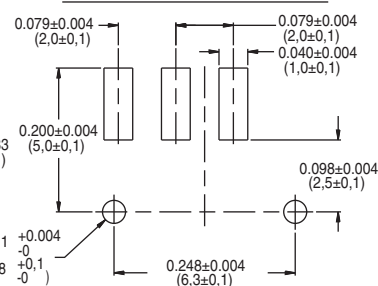
PACKAGING QUANTITY:
1,800 PCS/REEL



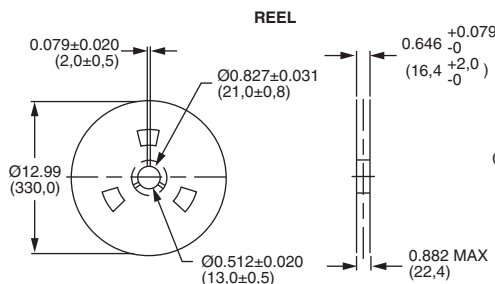
SCHEMATIC (1P2T)

Shown in position 2

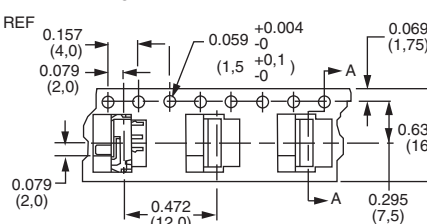
RECOMMENDED PC BOARD LAY OUT



JSM08011SAQNR
SPDT Surface Mount
Momentary only



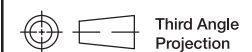
CARRIER TAPE



COVER TAPE



PACKAGING QUANTITY:
1,800 PCS/REEL



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



Slide

JSM Series

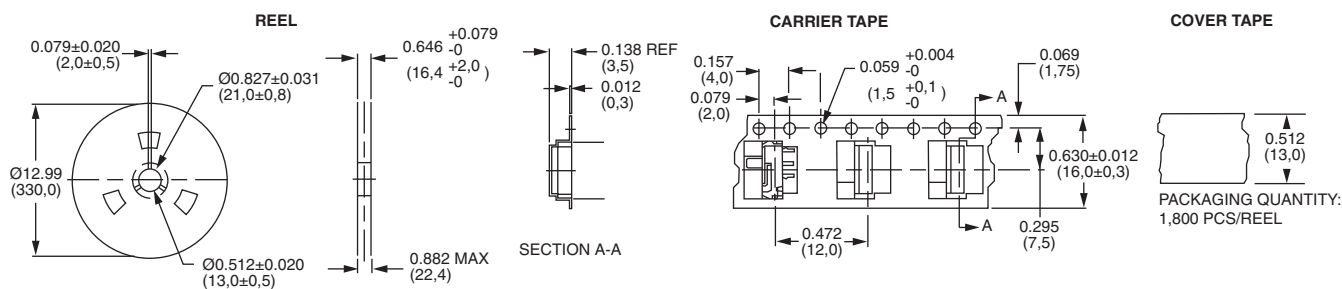
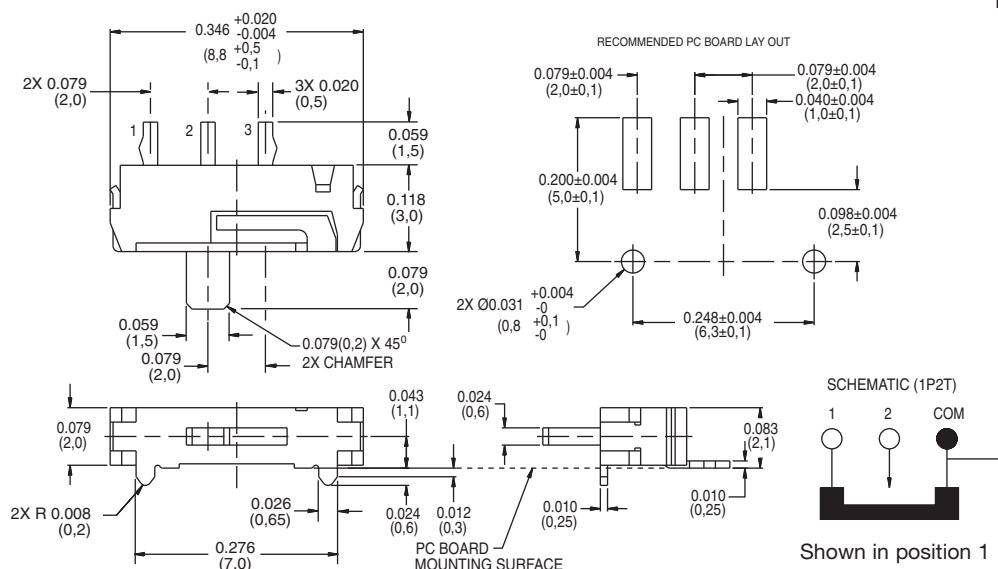
Sub-Miniature Slide Switches



Slide



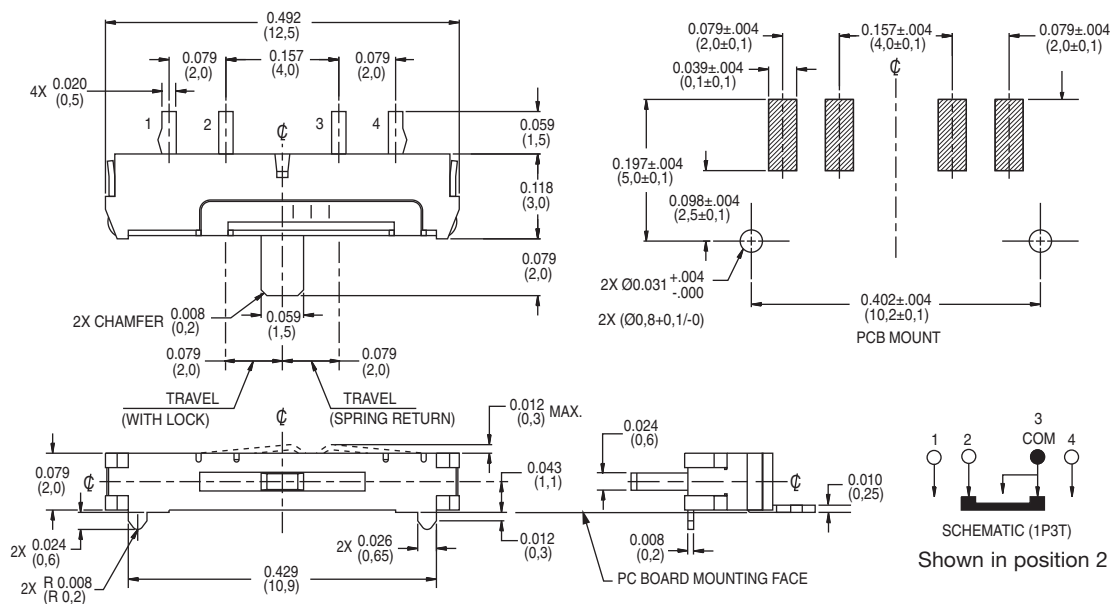
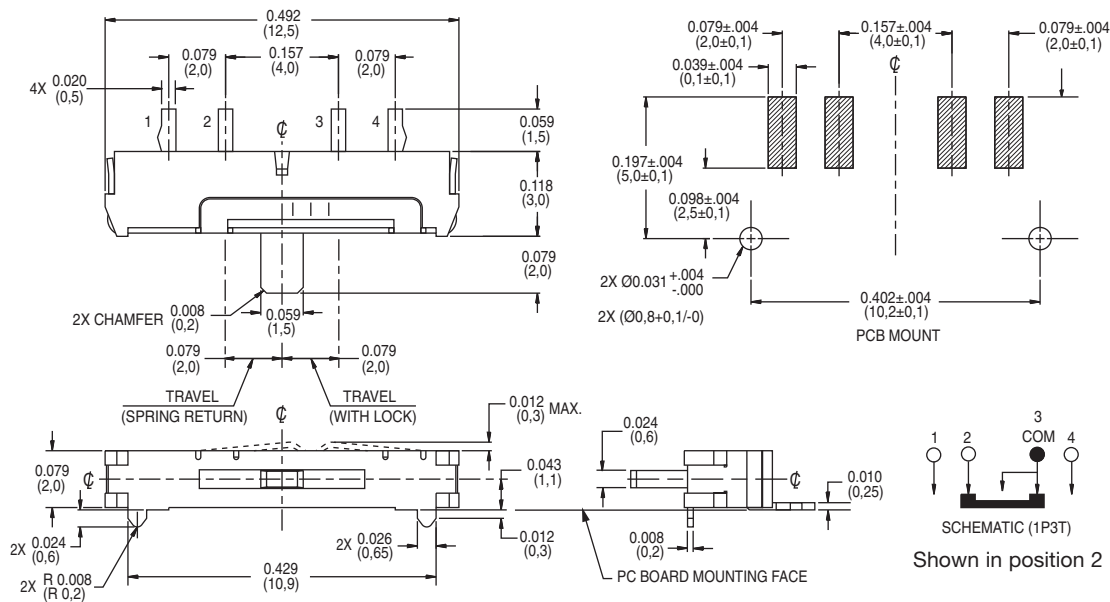
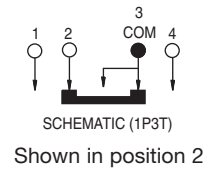
JSM08011SAQNL
SPDT Surface Mount
Momentary only



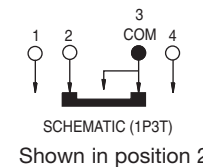
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

J

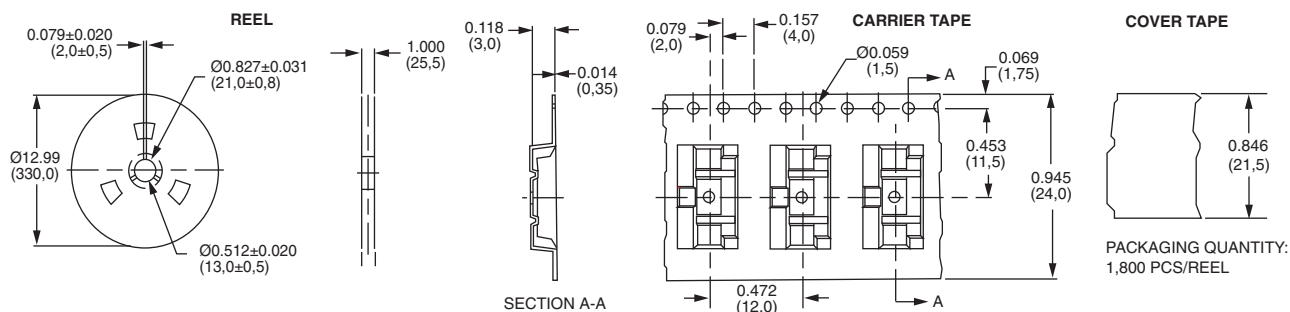
JSM07011SAQNR
SP3T Surface Mount
Momentary one side
& Maintained the other



JSM07011SAQNL
SP3T Surface Mount
Momentary one side
& Maintained the other



Packaging for JSM07011SAQNR and JSM07011SAQNL

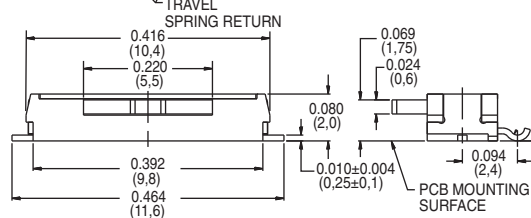
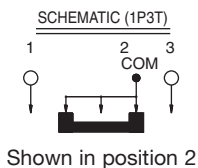
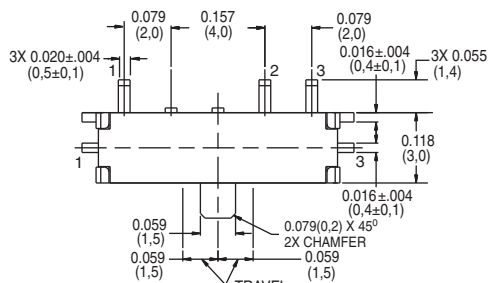


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

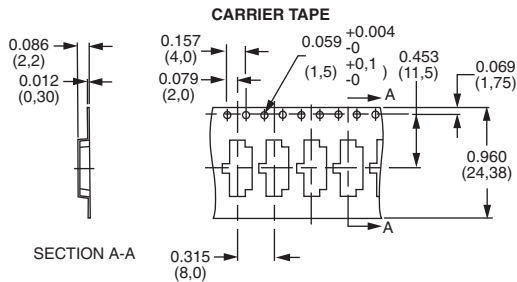
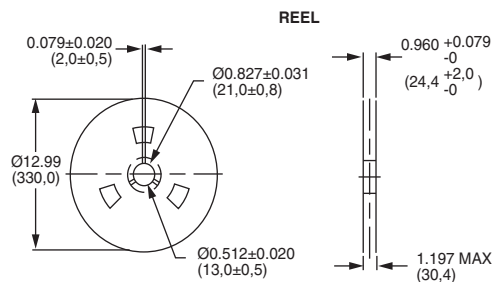
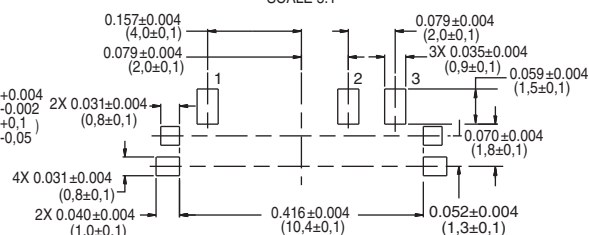
JSM Series Sub-Miniature Slide Switches



JSM05000SAQN
SP3T Surface Mount
Momentary both
sides



RECOMMENDED PC BOARD LAY OUT
SCALE 5:1



COVER TAPE

