













# Rockers

## Product Selection Guide

Rocker							
<b>Series</b>	7000	E	ET	T	9000	DA	D
<b>Switch Type</b>	Miniature	Miniature	Subminiature	Subminiature	Power Rocker & Lever Handle	Miniature Power	Miniature Power
<b>Poles/Throws</b>	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT	SPST, SPDT, DPDT	SPST, SPDT, DPDT	DPDT	SPST, SPDT	SPST, SPDT, DPST, DPDT
<b>Max. Current</b>	5 Amps	7.5 Amps	3 Amps	3 Amps	10 Amps	16 Amps 10 Amps	4 Amps 10 Amps
<b>Washable</b>		•	•				
<b>Illuminated</b>						•	
<b>Panel Mount Options</b>							
Front Mount	•	•		•	•	Snap-in	Snap-in
Rear Mount	•	•		•	•		
<b>PCB Mount Options</b>							
Vertical	•	•	•	•	•	•	•
Right Angle	•	•	•	•	•	•	•
Surface Mount			•				
<b>Page No.</b>	G-3	G-25	G-39	G-45	G-51	G-56	G-60

Rocker					
<b>Series</b>	DM	DM	DF	CR	SW
<b>Switch Type</b>	Miniature 2 Pole Power	Miniature Illuminated Power	Power	Round	Miniature Power
<b>Poles/Throws</b>	DPST, DPDT	SPST, DPST	SPST, SPDT, DPST	SPST, SPDT	SPST, SPDT, DPST
<b>Max. Current</b>	3 Amps, 10 Amps	3 Amps, 10 Amps	16 Amps	10 Amps, 6 Amps	3 A, 6 A, 6.5 A, 10 A, 16 A
<b>Washable</b>					
<b>Illuminated</b>		•		•	•
<b>Panel Mount Options</b>					
Front Mount	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in
Rear Mount			•		
<b>PCB Mount Options</b>					
Vertical					
Right Angle			•		
Surface Mount					
<b>Page No.</b>	G-65	G-69	G-73	G-77	G-81

Rocker



G

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

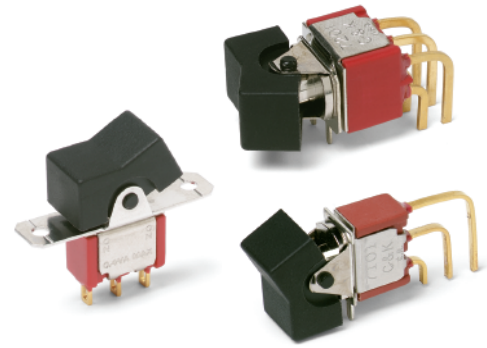
# 7000 Series Miniature Rocker & Lever Handle Switches

## Features/Benefits

- Multi-pole and multi-position
- Wide variety of actuator and termination options
- Epoxy terminal-seal compatible with bottom wash cleaning
- RoHS compliant

## Typical Applications

- Telecommunications
- Instrumentation
- Medical equipment



## Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 5 AMPS @ 120 V AC or 28 V DC; 2 AMPS @ 250 V AC. See page G-20 for additional ratings.

ELECTRICAL LIFE: 7X01 and UX1 models: 100,000 make-and-break cycles at full load. All other models: 40,000 cycles.

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

INSULATION RESISTANCE: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 1000 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).

**NOTE:** Any models supplied with S, P, R, 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

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

ACTUATOR: Nylon, black.

FRAME (FRONT MOUNT): Nylon, black.

FRAME (REAR MOUNT): Spring steel, black.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page G-20 for additional contact materials.

CENTER CONTACTS & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-20 for additional contact materials.

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

HARDWARE: Mounting nuts & screws: Brass. Lockwasher: Stainless steel. Standoff: Nylon standard.

## 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 G-4 through G-24. 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.

<p><b>Switch Function</b></p> <p><b>7101</b> SP On-None-On  <b>7103</b> SP On-Off-On  <b>7105</b> SP Mom.-Off-Mom.  <b>7107</b> SP On-Off-Mom.  <b>7108</b> SP On-None-Mom.  <b>7109</b> SP None-On-Mom.  <b>7201</b> DP On-None-On  <b>7203</b> DP On-Off-On  <b>7205</b> DP Mom.-Off-Mom.  <b>7207</b> DP On-Off-Mom.  <b>7208</b> DP On-None-Mom.  <b>7211</b> DP On-On-On  <b>7213</b> DP On-On-Mom.  <b>7215</b> DP Mom.-On-Mom.  <b>7301</b> 3P On-None-On  <b>7303</b> 3P On-Off-On  <b>7401</b> 4P On-None-On  <b>7405</b> 4P Mom.-Off-Mom.  <b>7411</b> 4P On-On-On</p> <p><b>Note:</b> UL models available, see pages G-5 and G-6.</p>	<p><b>Actuator</b></p> <p><b>J1</b> .531" long rocker  <b>J2</b> Lever  <b>J3</b> .906" long rocker  <b>J10</b> 1.318" long rocker  <b>J11</b> Rocker with frame  <b>J15</b> Rocker, snap-in  <b>J16</b> Rocker with frame, snap-in  <b>J19</b> Rocker with frame  <b>J21</b> Lever with frame  <b>J25</b> Lever, snap-in  <b>J26</b> Lever with frame, snap-in  <b>J37</b> Rocker with frame  <b>J50</b> Rocker  <b>J51</b> Rocker with frame  <b>J52</b> Rocker with frame for LED, snap-in  <b>J60</b> Lever  <b>J61</b> Lever with frame, snap-in  <b>J62</b> Lever with frame for LED, snap-in  <b>J90</b> Lever  <b>J91</b> Lever with frame, snap-in</p>	<p><b>Terminations</b></p> <p><b>A</b> Right angle, PC thru-hole  <b>AV2</b> Vertical right angle, PC thru-hole  <b>C</b> PC Thru-hole  <b>Z</b> Solder lug  <b>A3</b> Right angle, snap-in, PC thru-hole  <b>AV3</b> Vertical right angle, snap-in, PC thru-hole  <b>AW3</b> Right angle, extended, PC thru-hole  <b>V2</b> .555" high, V-bracket  <b>V3</b> .460" high, V-bracket  <b>V4</b> .630" high, V-bracket  <b>V5</b> Vertical right angle, PC thru-hole  <b>V6</b> .460" high, V-bracket  <b>V7</b> .630" high, V-bracket  <b>V8</b> .953" high, V-bracket  <b>V9</b> 1.150" high, V-bracket  <b>V31</b> .460" high, V-bracket, snap-in  <b>V51</b> Vertical right angle, snap-in  <b>V61</b> .460" high, V-bracket, snap-in  <b>W</b> .750" long, wire wrap  <b>W3</b> .425" long, wire wrap  <b>W5</b> 1.305" long, wire wrap  <b>Z3</b> Quick connect</p>	<p><b>Contact Material</b></p> <p><b>B</b> Gold  <b>P</b> Gold, matte tin  <b>Q</b> Silver  <b>S</b> Silver, matte-tin  <b>G</b> Gold over silver  <b>R</b> Gold over silver, matte-tin</p> <p><b>Seal</b></p> <p><b>E</b> Epoxy  <b>I</b> Epoxy potted base</p> <p><b>Actuator Color</b></p> <p><b>2</b> Black  <b>1</b> White  <b>3</b> Red</p> <p><b>Frame Color</b></p> <p><b>2</b> Black  <b>1</b> White  <b>NONE</b> No frame color required</p> <p><b>Metal Frame Color</b>          (J11, J19, J21 &amp; J37 Actuators)  <b>2</b> Black  <b>1</b> White</p>
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Dimensions are shown: Inches (mm)  
 Specifications and dimensions subject to change

Rocker



# 7000 Series Miniature Rocker & Lever Handle Switches

## SWITCH FUNCTION

NO. POLES	MODEL NO.	UL** MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
SP	<b>7101</b>	<b>U11</b>	ON	NONE	ON	2-3	N/A	2-1	
	<b>7103</b>	<b>U13</b>	ON	OFF	ON		N/A		
	<b>7105</b>	<b>U15</b>	MOM.	OFF	MOM.		OPEN		
	<b>7107</b>	<b>U17</b>	ON	OFF	MOM.		N/A		
	<b>7108</b>	<b>U18</b>	ON	NONE	MOM.		N/A		
	<b>7109</b>	<b>U19</b>	NONE	ON	MOM.		N/A		
<b>SPDT</b>									
Part number shown: 7101J1ZQE2									
DP	<b>7201</b>	<b>U21</b>	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	<b>7203</b>	<b>U23</b>	ON	OFF	ON		N/A		
	<b>7205</b>	<b>U25</b>	MOM.	OFF	MOM.		OPEN		
	<b>7207</b>	<b>U27</b>	ON	OFF	MOM.		N/A		
	<b>7208</b>	<b>U28</b>	ON	NONE	MOM.		N/A		
	<b>7211*</b>	<b>U211*</b>	ON	ON	ON		2-3,5-4		
	<b>7213*</b>	<b>U213*</b>	ON	ON	MOM.		2-3,5-4		
	<b>7215*</b>	<b>U215*</b>	MOM.	ON	MOM.		2-3,5-4		
<b>DPDT</b>									
Part number shown: 7201J1ZQE2									

MOM. = Momentary

\* Wiring for 3-way switch, see Section N.

\*\* U11 through U413 model nos. with all options when ordered with G, Q, R or S contact material.

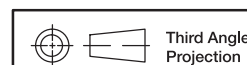
Rocker



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Third Angle Projection

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

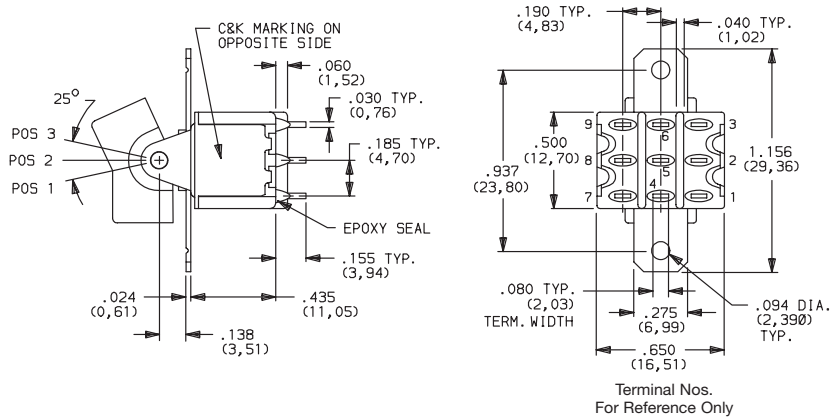
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# 7000 Series Miniature Rocker & Lever Handle Switches

## SWITCH FUNCTION

NO. POLES	MODEL NO.	UL** MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
3P	<b>7301</b>	<b>U31</b>	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	 3PDT
	<b>7303</b>	<b>U33</b>	ON	OFF	ON	2-3,5-6,8-9	OPEN	2-1,5-4,8-7	

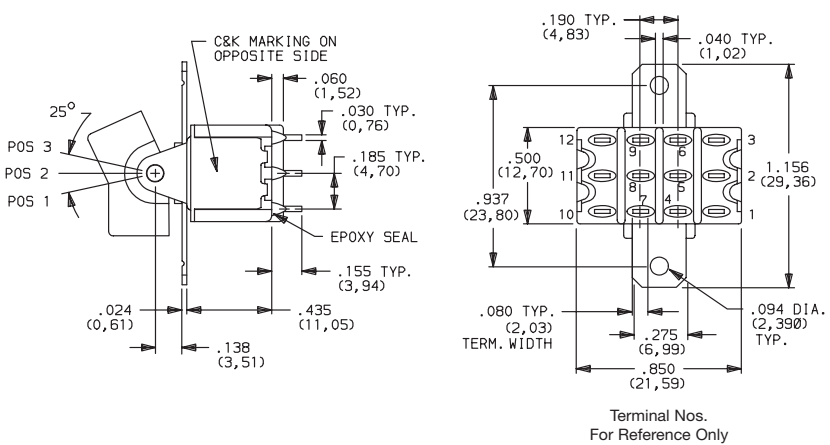
### 3PDT



Part number shown: 7301J1ZQE2

4P	<b>7401</b>	<b>U41</b>	ON	NONE	ON	2-3,5-6,8-9,11-12	N/A	2-1,5-4,8-7,11-10	 4PDT
	<b>7405</b>	<b>U45</b>	MOM.	OFF	MOM.		OPEN		
	<b>7411*</b>	<b>U411*</b>	ON	ON	ON		2-3,5-4,8-9,11-10		

### 4PDT



Part number shown: 7401J1ZQE2

MOM. = Momentary

\*\* U11 through U411 model nos. with all options when ordered with G, Q, R or S contact material.

\* Wiring for 3-way switch: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



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



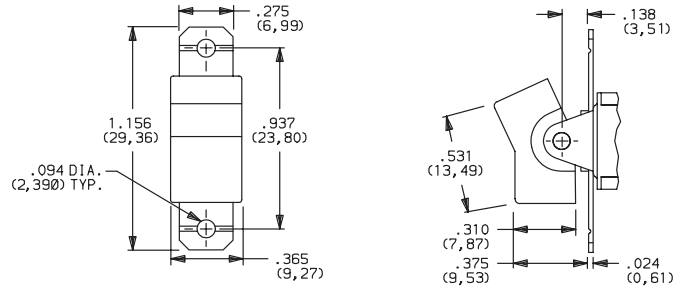
# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-PANEL REAR MOUNT

ACTUATOR COLOR

ACTUATOR

**J1** ROCKER



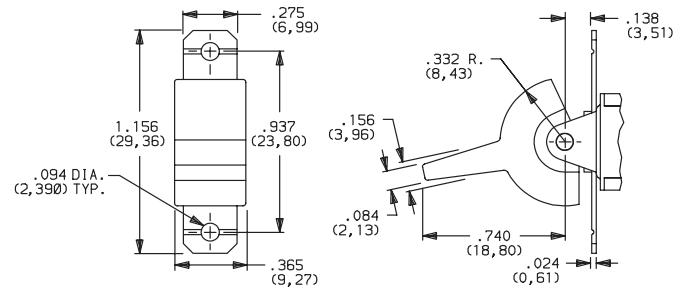
OPTION CODE	ACTUATOR COLOR
<b>2</b>	<b>BLACK</b>
<b>1</b>	<b>WHITE</b>
<b>3</b>	<b>RED</b>

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Actuators available separately, see page G-21 through G-22. Hardware is available see Technical Data section of this catalog.

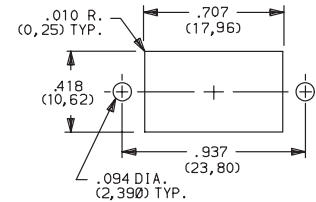
J1, J2, J3 & J10 Actuators available with C, W-W5, Z or Z3 terminations.

**J2** LEVER

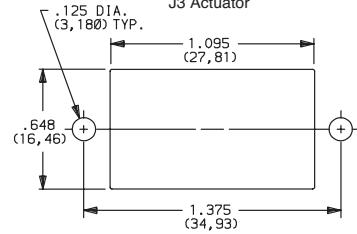


### PANEL MOUNTING

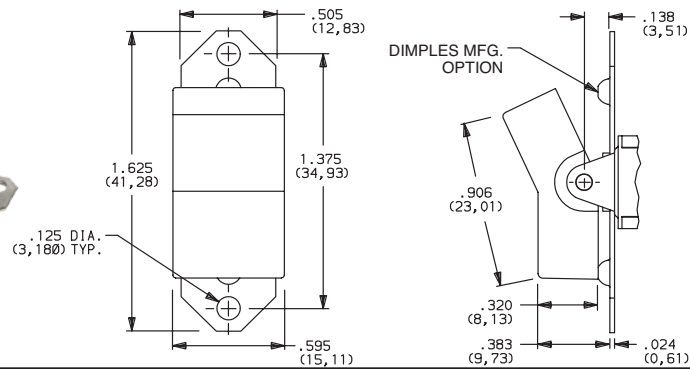
J1 & J2 Actuators



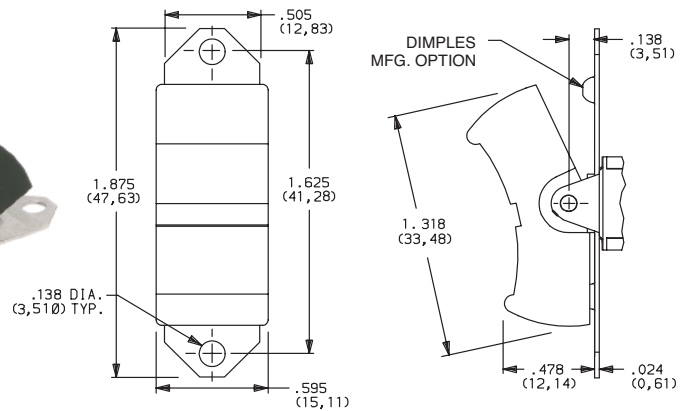
J3 Actuator



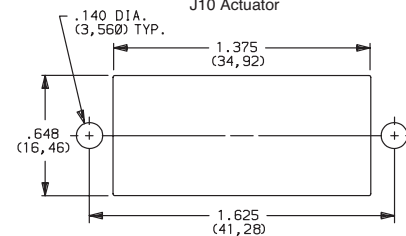
**J3** ROCKER



**J10** ROCKER



J10 Actuator



Rocker



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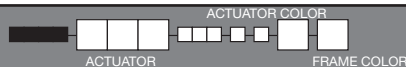
Third Angle Projection

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

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# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-SNAP-IN FRONT MOUNT



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

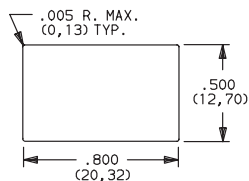
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

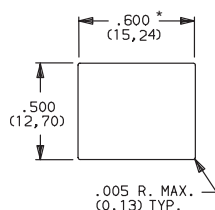
**NOTE:** Actuators & frames available separately, see pages G-21 through G-22. J15, J16, J25, J26, J50 & J51 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

### PANEL MOUNTING

J15, J16, J25 & J26 Actuators

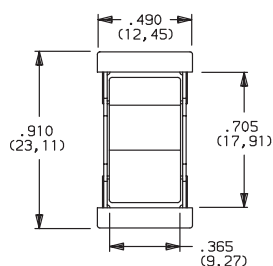


J50 Actuator

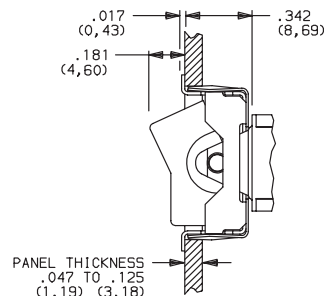


\* For J50: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

### J15 ROCKER, SNAP-IN



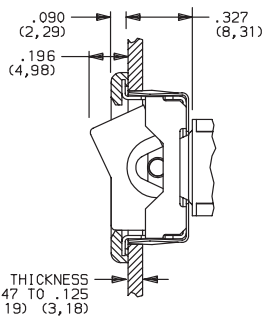
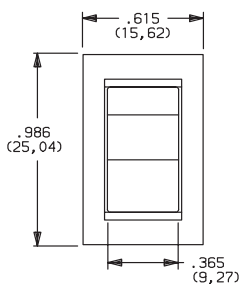
No frame color choice required



PANEL THICKNESS  
.047 TO .125  
(1,19) (3,18)



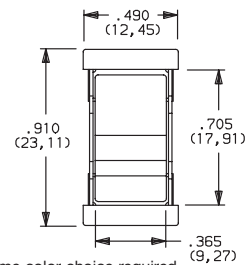
### J16 ROCKER WITH FRAME, SNAP-IN



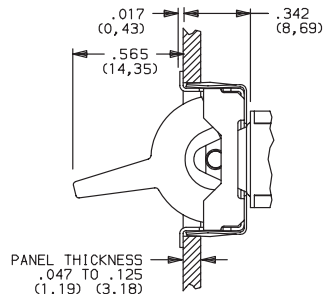
PANEL THICKNESS  
.047 TO .125  
(1,19) (3,18)



### J25 LEVER, SNAP-IN



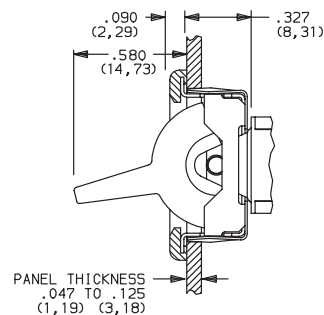
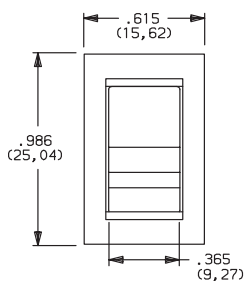
No frame color choice required



PANEL THICKNESS  
.047 TO .125  
(1,19) (3,18)



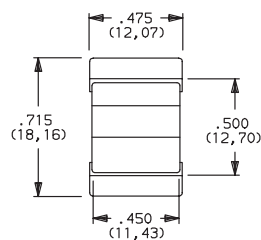
### J26 LEVER WITH FRAME, SNAP-IN



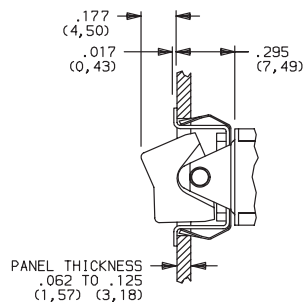
PANEL THICKNESS  
.047 TO .125  
(1,19) (3,18)



### J50 ROCKER, SNAP-IN



No frame color choice required



PANEL THICKNESS  
.062 TO .125  
(1,57) (3,18)



Third Angle  
Projection

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



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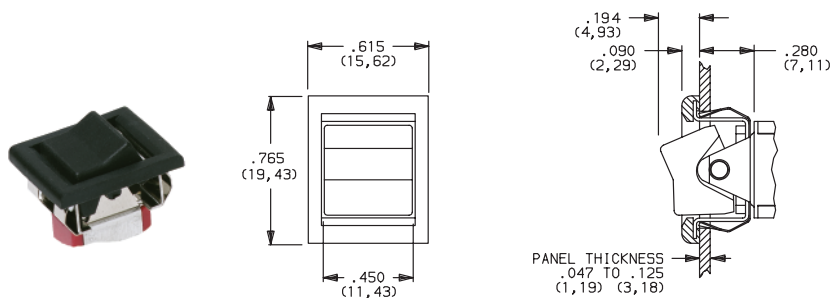


# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-SNAP-IN FRONT MOUNT

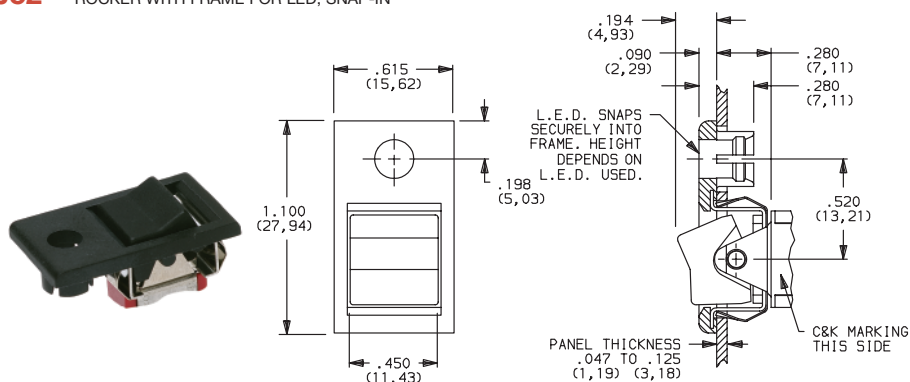


### J51 ROCKER WITH FRAME, SNAP-IN



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

### J52 ROCKER WITH FRAME FOR LED, SNAP-IN



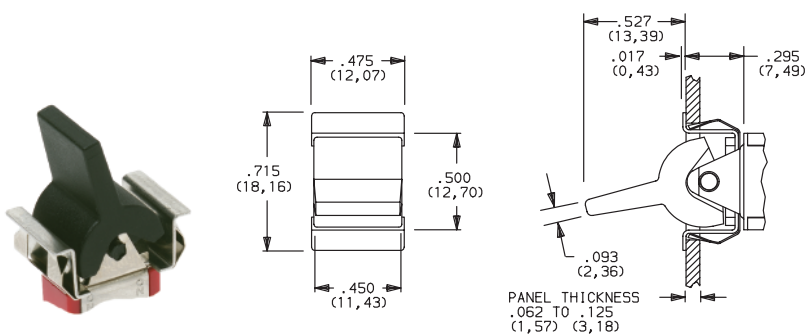
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Actuators & frames available separately, see pages G-21 through G-22. J51, J52, J60 & J61 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

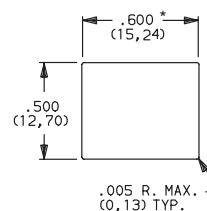
LED not included.  
For LED information, see page G-24.

### J60 LEVER, SNAP-IN

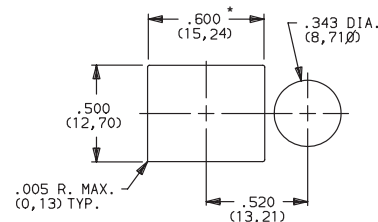


#### PANEL MOUNTING

J51, J60 & J61 Actuators



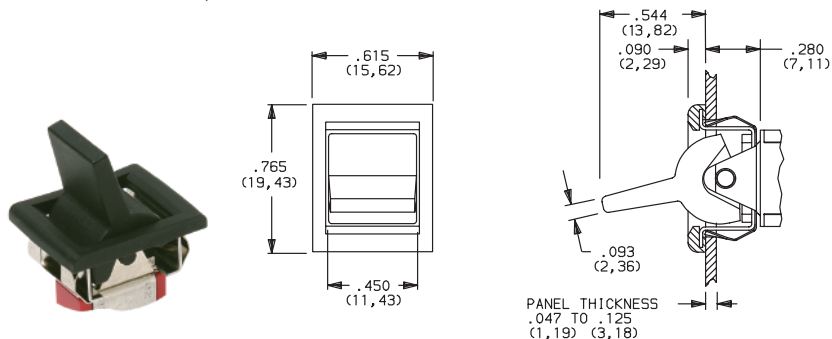
J52 Actuator



For J51, J52: Increase this dimension to .620/.625 (15,75/15,88) for .060/.125(1,52/3,18) thk. panels.

No frame color choice required

### J61 LEVER WITH FRAME, SNAP-IN



Rocker



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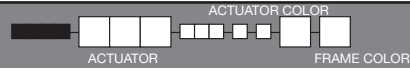
Third Angle Projection

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

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# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-SNAP-IN FRONT MOUNT



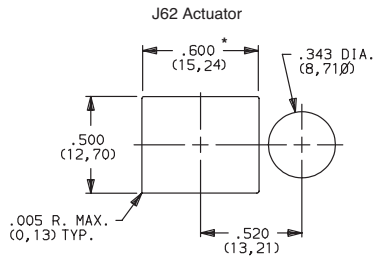
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J90 options)
1	WHITE

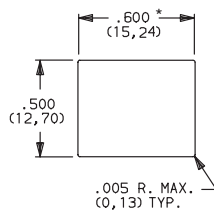
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Actuators & frames available separately, see pages G-21 through G-22. J62, J90 & J91 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

### PANEL MOUNTING

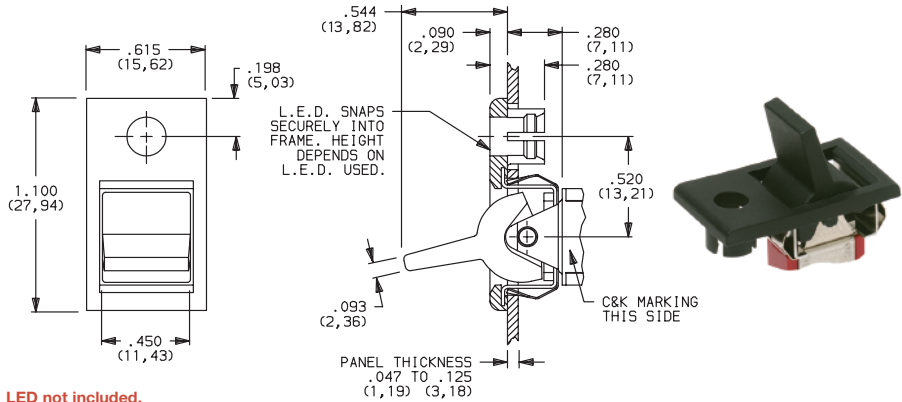


### J90, J91 & J93 Actuators



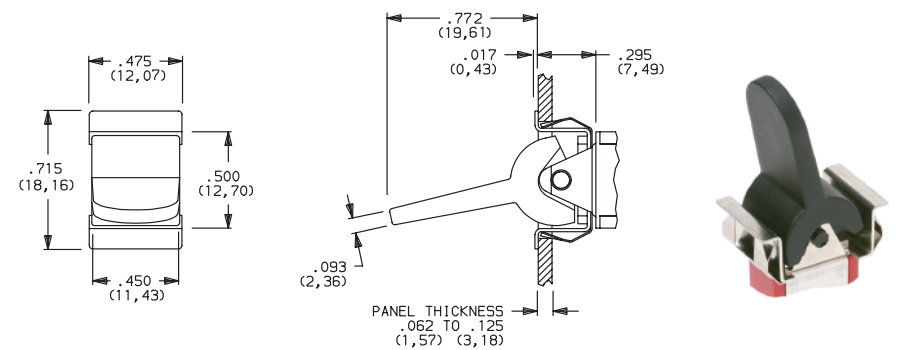
\* For J90: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.  
For J91: Increase this dimension to .620/.625 (15,75/15,88) for .060/.125 (1,52/3,18) thk. panels.

### J62 LEVER WITH FRAME FOR LED, SNAP-IN



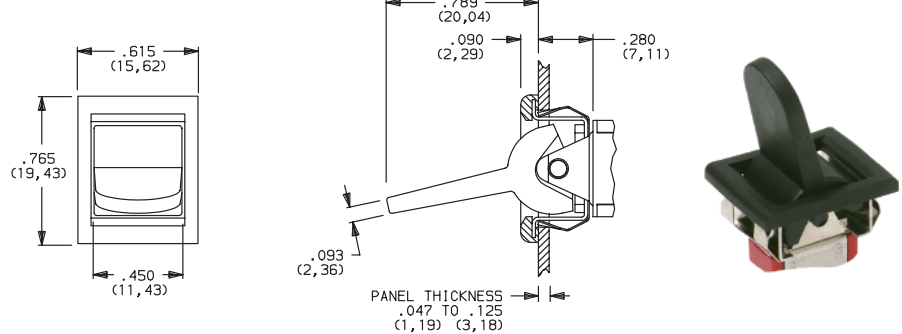
**LED not included.**  
For LED information, see page H-25.

### J90 LEVER, SNAP-IN



No frame color choice required.

### J91 LEVER WITH FRAME, SNAP-IN



Third Angle Projection

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



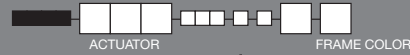
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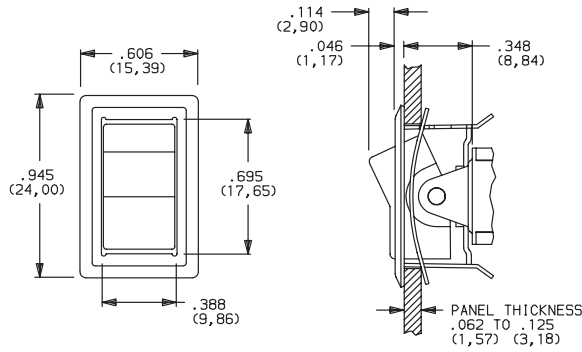


# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-REAR MOUNT



**J11** ROCKER WITH FRAME



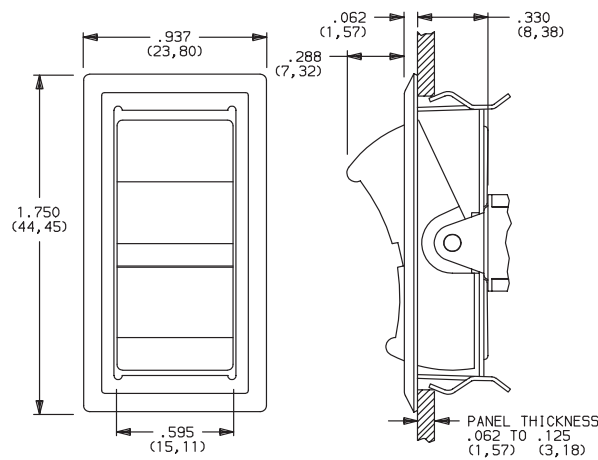
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK
1	WHITE

Actuator finish: Matte. Frame finish: Gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

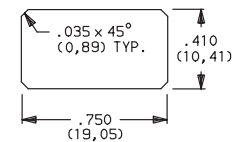
**NOTE:** Actuators & frames available separately, see pages G-21 through G-22. J11, J19, J21 & J37 Actuators available with C, W-W5, Z & Z3 terminations. J37 offered with Black Frame (2 color option) only.

**J19** ROCKER WITH FRAME

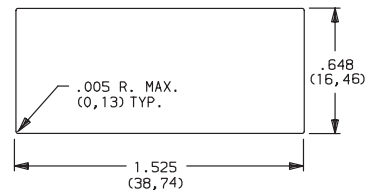


### PANEL MOUNTING

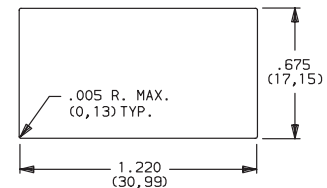
#### J11 & J21 Actuators



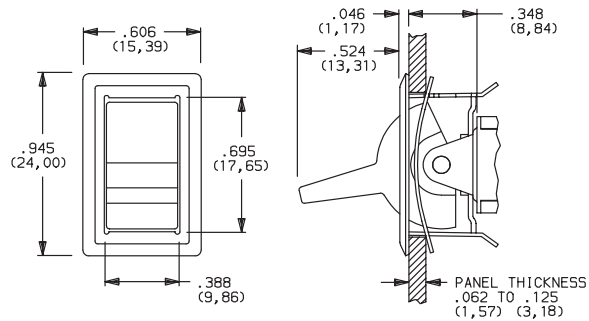
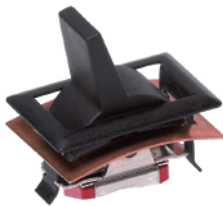
#### J19 Actuator



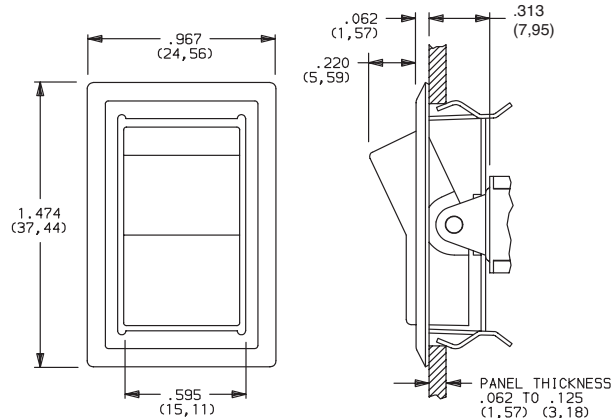
#### J37 Actuator



**J21** LEVER WITH FRAME



**J37** ROCKER WITH FRAME



Rocker



G

**C&K**

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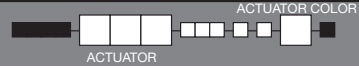
Third Angle Projection

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

www.ckswitches.com

# 7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-PC MOUNT



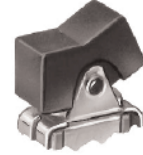
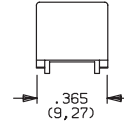
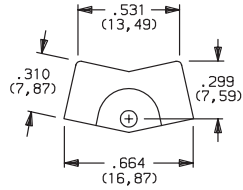
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

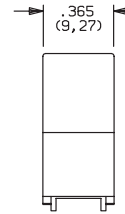
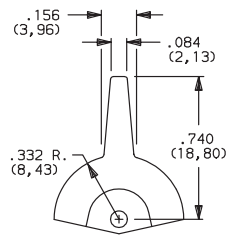
**NOTE:** Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

Actuators available separately, see page G-21 through G-22. J1, J2 actuators available with A, A3, AV2, AV3, AW3 & V2 terminations. J3 actuators available with AV2, AV3 & V2-V61 terminations. J50 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW3 (DP, 3P models only) & V2-V61 terminations.

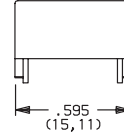
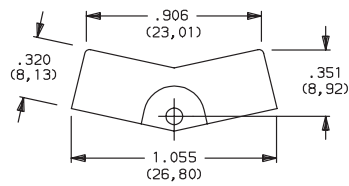
## J1 ROCKER



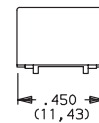
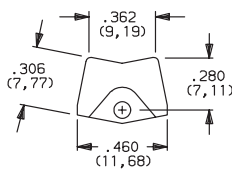
## J2 LEVER



## J3 ROCKER

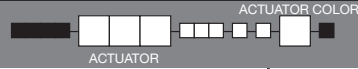


## J50 ROCKER

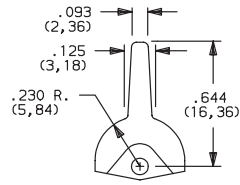


# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-PC MOUNT



### J60 LEVER

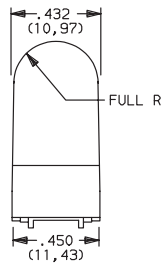
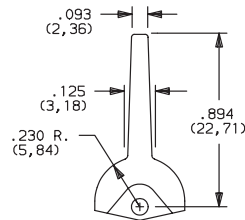


OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

### J90 LEVER

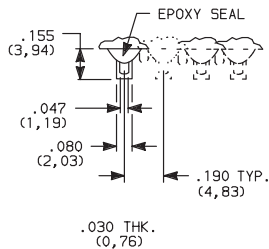


Actuators available separately, see page G-21 through G-22. J60 & J90 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW3 (DP, 3P models only) & V2-V61 terminations.

## TERMINATIONS



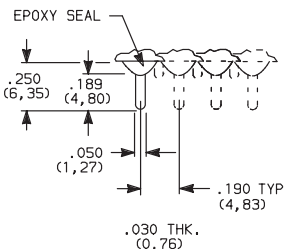
### Z SOLDER LUG



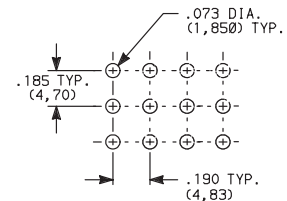
### SPDT thru 4PDT

Not available with P, R or S contact materials. Available actuators, see pages G-7 through G-13.

### C PC THRU-HOLE



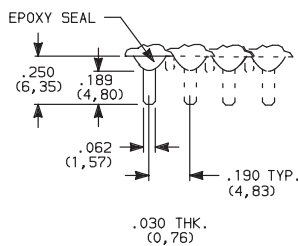
### PC MOUNTING



### SPDT thru 4PDT

**NOTE:** Available actuators, see pages G-7 through G-13.

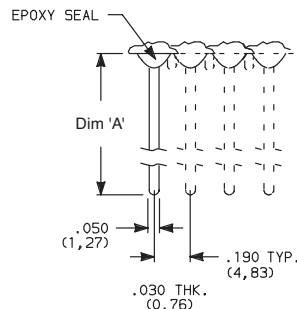
### Z3 QUICK CONNECT



### SPDT thru 4PDT

Not available with P, R or S contact materials. Available actuators, see pages G-7 through G-13. Mating quick connector available; order part number 530100000, page G-22.

### W, W3, W5 WIRE WRAP



OPTION CODE	DIM 'A'
W	.750 (19,05)
W3	.425 (10,80)
W5	1.305 (33,15)

### SPDT thru 4PDT

**NOTE:** Available actuators, see pages G-7 through G-13.



Third Angle Projection

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

Rocker



G

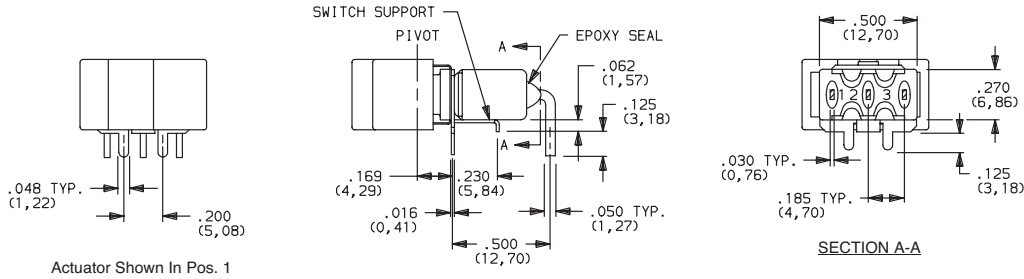
**C&K**

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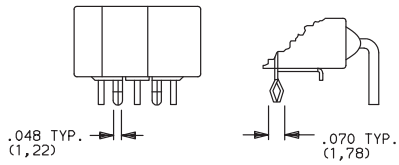
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

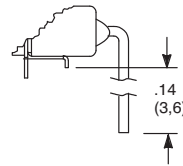
### A RIGHT ANGLE, PC THRU-HOLE



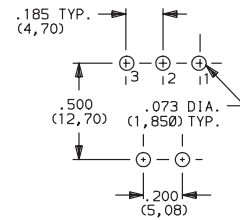
### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



### AW3 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



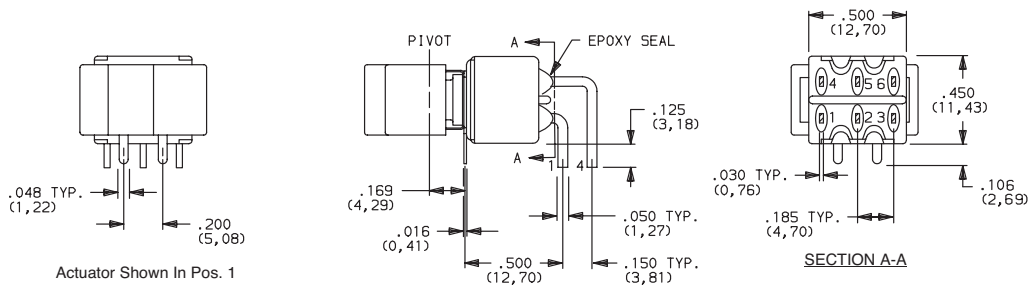
### PC MOUNTING



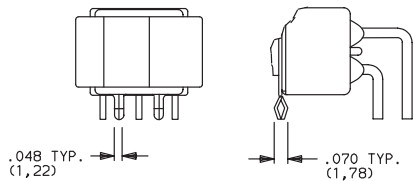
Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

NOTE: PC pattern must clear switch support leg.

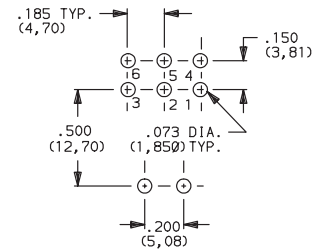
### A RIGHT ANGLE, PC THRU-HOLE



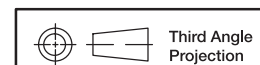
### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



### PC MOUNTING



Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

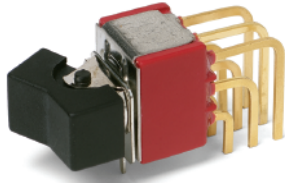


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

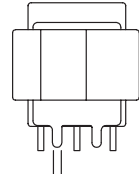
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

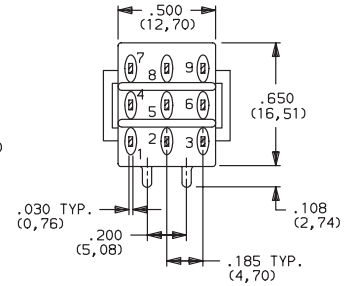
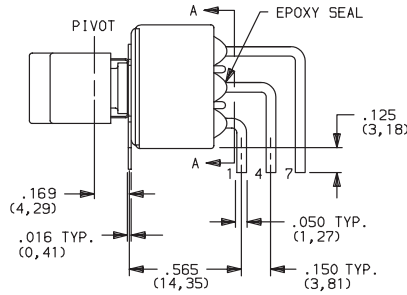
**A** RIGHT ANGLE, PC THRU-HOLE



**7301J1ABE2**  
Horizontal Actuation  
**3PDT**



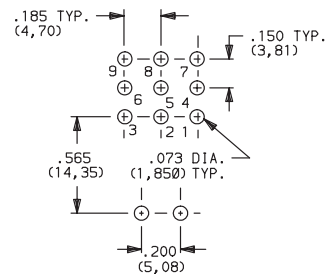
Actuator Shown In Pos. 1



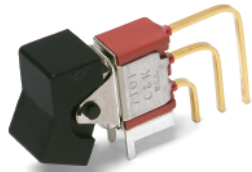
SECTION A-A

Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

### PC MOUNTING



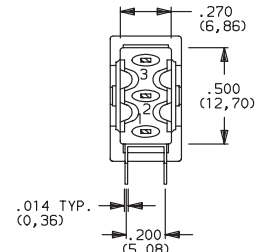
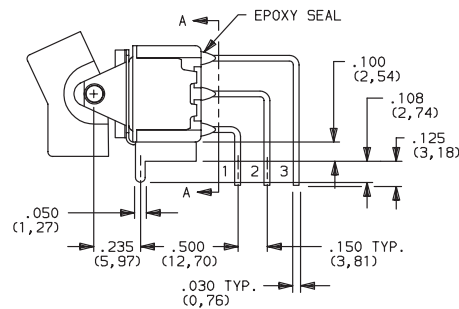
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**7101J1AV2BE2**  
Vertical Actuation  
**SPDT**

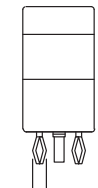


Actuator Shown In Pos. 1

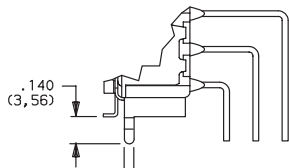


SECTION A-A

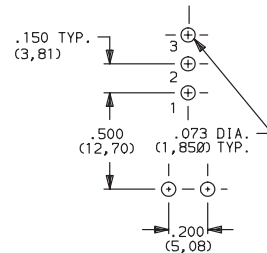
**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH



.070 TYP. (1,78)



### PC MOUNTING



Rocker

Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.



Third Angle  
Projection

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

G

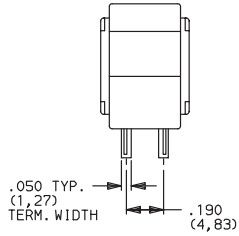
**C&K**

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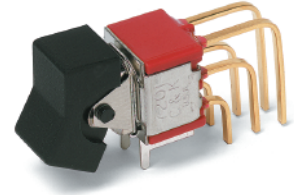
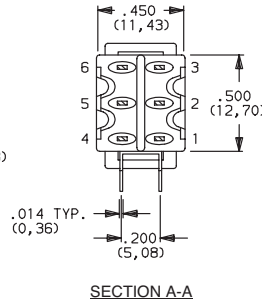
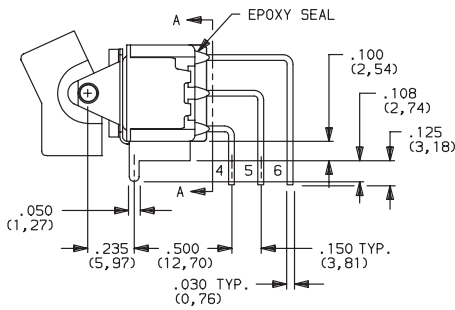
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

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

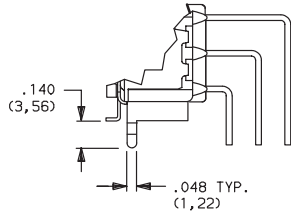
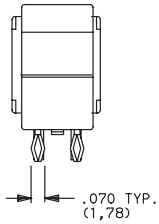


Actuator Shown In Pos. 1

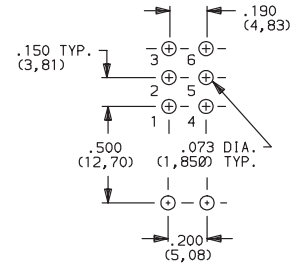


**7201J1AV2BE2**  
Vertical Actuation  
**DPDT**

**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH

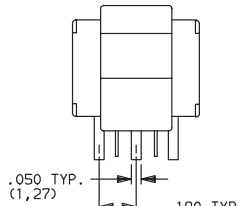


### PC MOUNTING

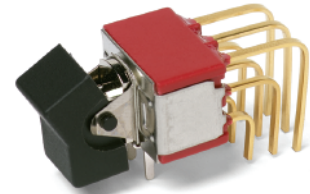
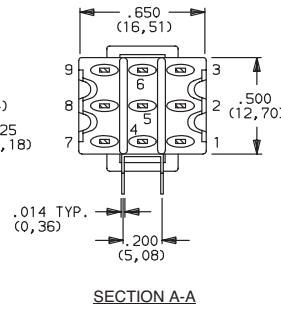
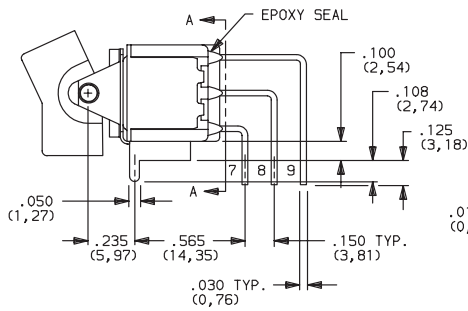


Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

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

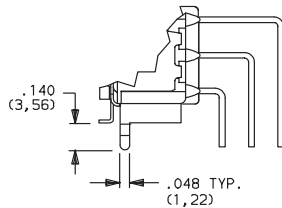
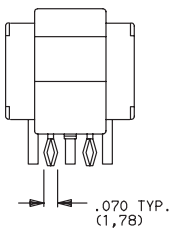


Actuator Shown In Pos. 1

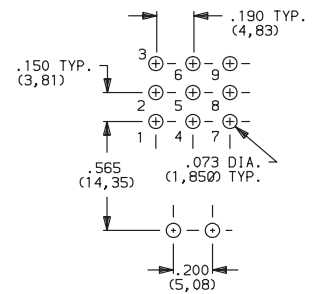


**7301J1AV2BE2**  
Vertical Actuation  
**3PDT**

**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH



### PC MOUNTING



Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.



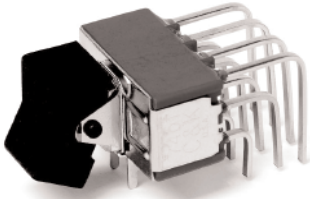
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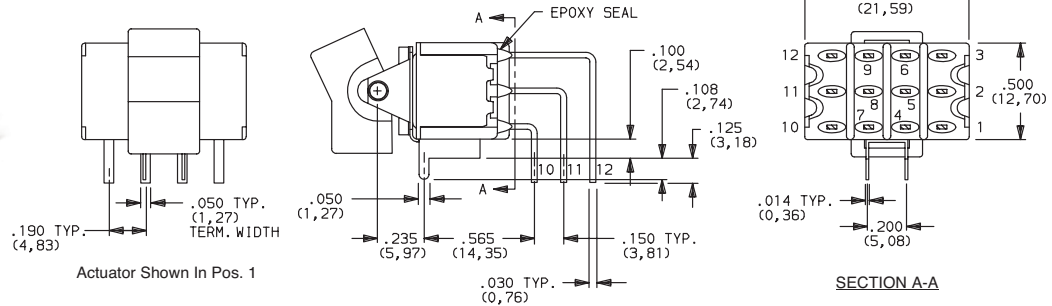
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

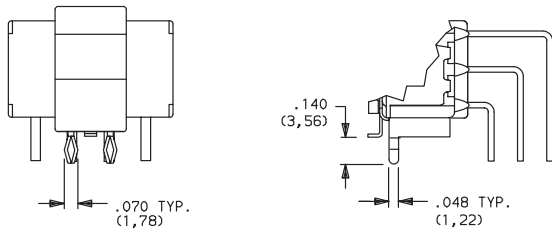
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



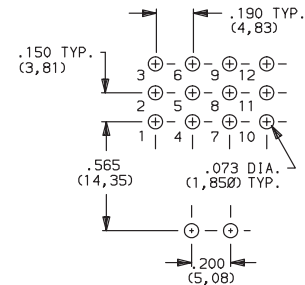
**7401J1AV2BE2**  
Vertical Actuation  
**4PDT**



**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH

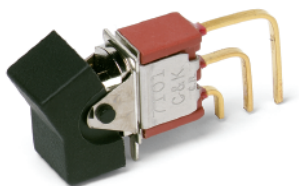


### PC MOUNTING

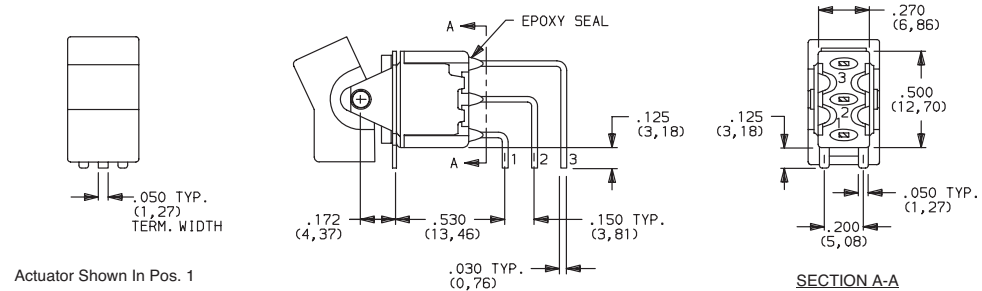


Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

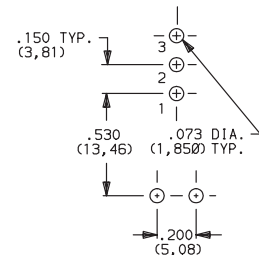
**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



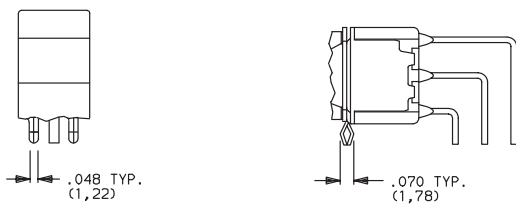
**7101J1V5BE2**  
Vertical Actuation  
**SPDT**



### PC MOUNTING



**V51** VERTICAL RIGHT ANGLE, SNAP-IN,  
PC THRU-HOLE, .150" PITCH



Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

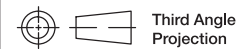
Rocker



G

**C&K**

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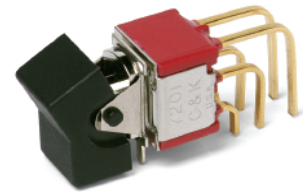
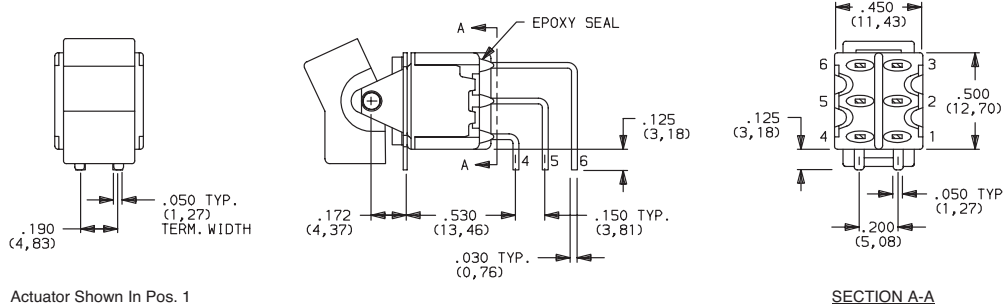
Third Angle Projection

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

# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH

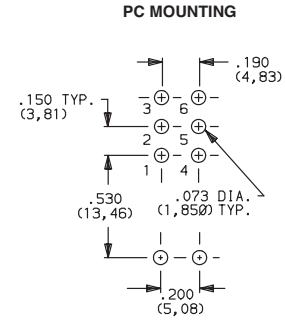
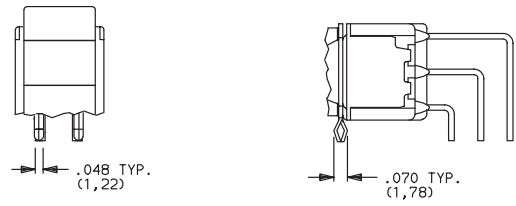


**7201J1V5BE2**  
Vertical Actuation  
DPDT

Actuator Shown In Pos. 1

SECTION A-A

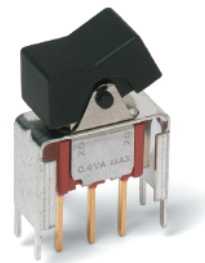
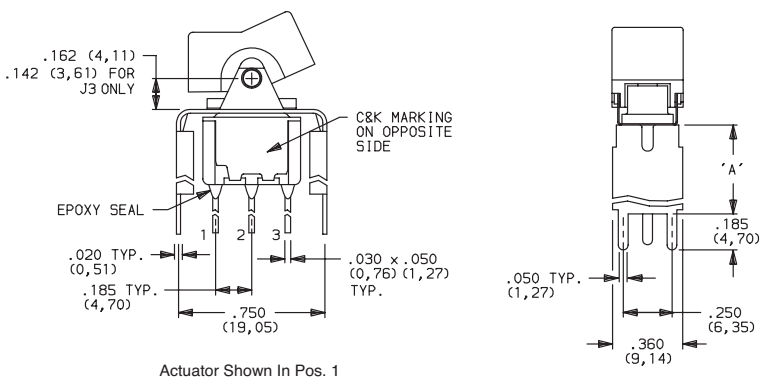
**V51** VERTICAL RIGHT ANGLE, SNAP-IN,  
PC THRU-HOLE, .150" PITCH



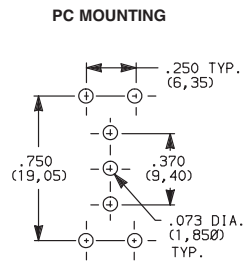
Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

**V2, V6, V7, V8** VERTICAL MOUNT, V-BRACKET

**V61** VERTICAL MOUNT, V-BRACKET, SNAP-IN



**7101J1\_BE2**  
SPDT



Actuator Shown In Pos. 1

Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

OPTION CODE	DIM 'A'
<b>V2, V21</b>	.555 (14,10)
<b>V6, V61</b>	.460 (11,68)
<b>V7</b>	.630 (16,00)
<b>V8</b>	.953 (24,21)



Third Angle  
Projection

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



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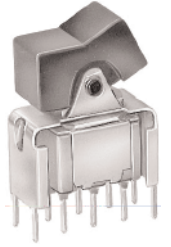


# 7000 Series Miniature Rocker & Lever Handle Switches

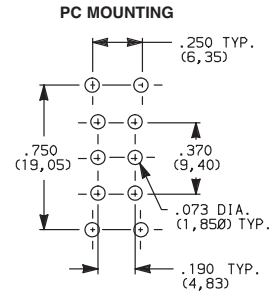
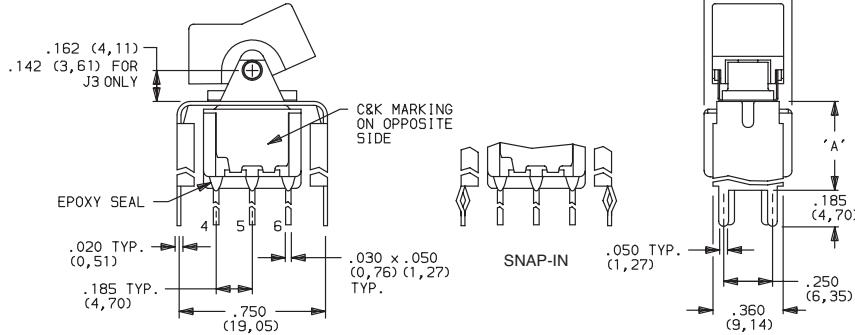
## TERMINATIONS

**V2, V6, V7, V8** VERTICAL MOUNT, V-BRACKET

**V21, V61** VERTICAL MOUNT, V-BRACKET, SNAP-IN



7201J1\_BE2  
DPDT



OPTION CODE	DIM 'A'
<b>V2, V21</b>	.555 (14,10)
<b>V6, V61</b>	.460 (11,68)
<b>V7</b>	.630 (16,00)
<b>V8</b>	.953 (24,21)

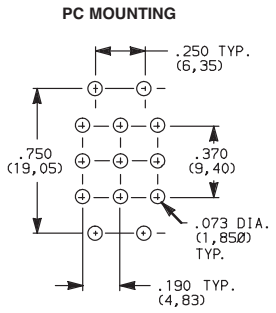
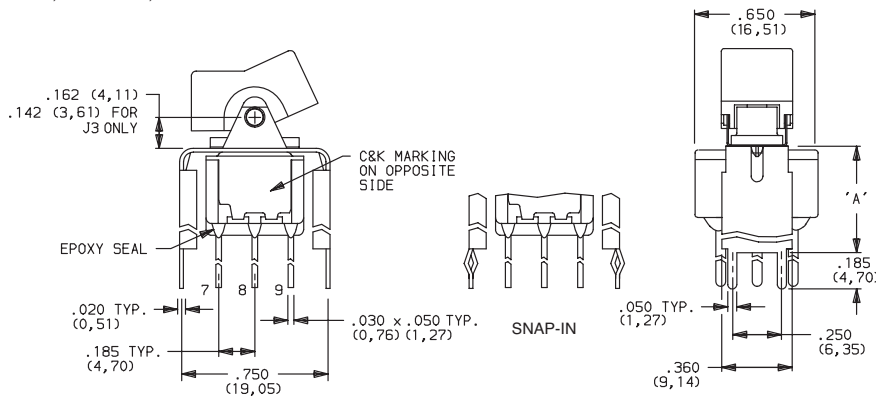
Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

**V2, V7, V8** VERTICAL MOUNT, V-BRACKET

**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



7301J1\_BE2  
3PDT



OPTION CODE	DIM 'A'
<b>V2, V21</b>	.555 (14,10)
<b>V7</b>	.630 (16,00)
<b>V8</b>	.953 (24,21)

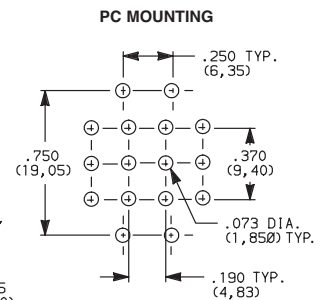
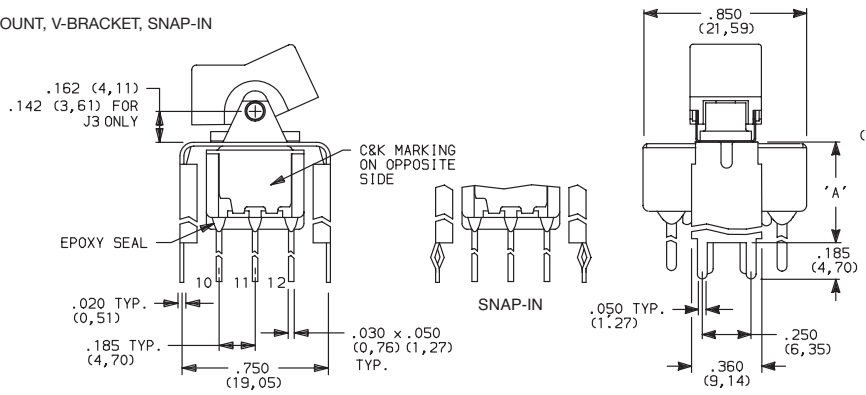
Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

**V2, V7, V8** VERTICAL MOUNT, V-BRACKET

**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



7401J1\_BE2  
4PDT



OPTION CODE	DIM 'A'
<b>V2, V21</b>	.555 (14,10)
<b>V7</b>	.630 (16,00)
<b>V8</b>	.953 (24,21)

Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

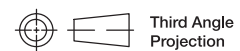
Rocker



G

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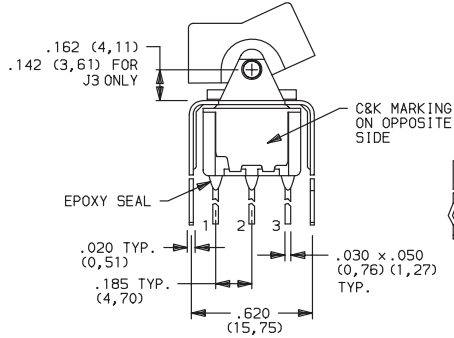
Third Angle Projection  
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# 7000 Series Miniature Rocker & Lever Handle Switches

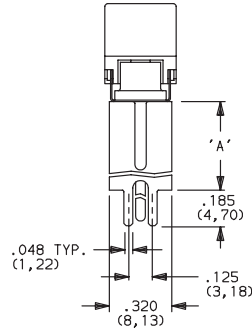
## TERMINATIONS

**V3, V4, V9** VERTICAL MOUNT, V-BRACKET

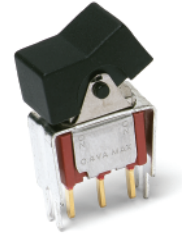
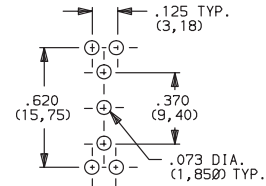
**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



PC MOUNTING



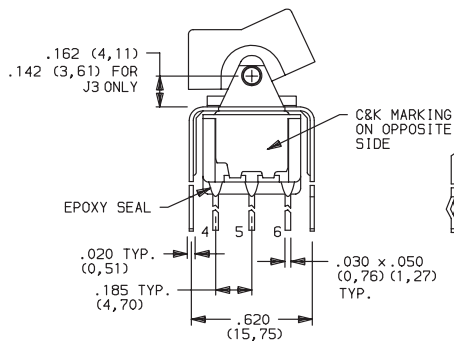
7101J1\_BE2  
SPDT

OPTION CODE	DIM 'A'
<b>V3, V31</b>	.460 (11,68)
<b>V4</b>	.630 (16,00)
<b>V9</b>	1.150 (29,21)

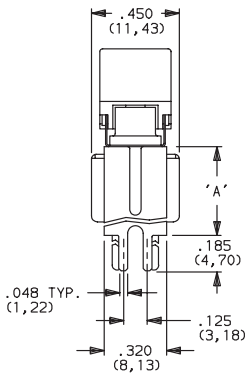
Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

**V3, V4, V9** VERTICAL MOUNT, V-BRACKET

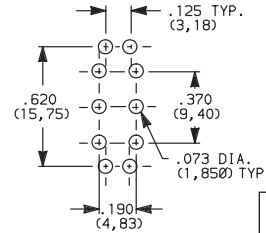
**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



PC MOUNTING

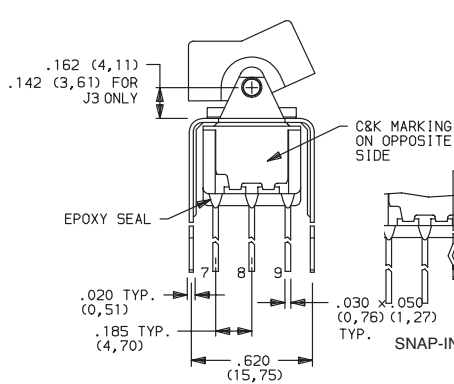


7201J1\_BE2  
DPDT

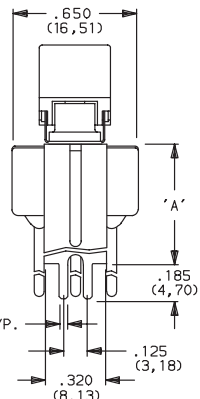
OPTION CODE	DIM 'A'
<b>V3, V31</b>	.460 (11,68)
<b>V4</b>	.630 (16,00)
<b>V9</b>	1.150 (29,21)

Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

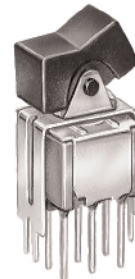
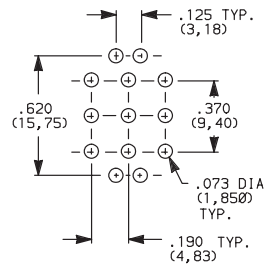
**V4, V9** VERTICAL MOUNT, V-BRACKET



Actuator Shown In Pos. 1



PC MOUNTING



7301J1\_BE2  
3PDT

OPTION CODE	DIM 'A'
<b>V4</b>	.630 (16,00)
<b>V9</b>	1.150 (29,21)

Not available with I seal option.  
Available actuators, see pages G-6 and G-12.



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



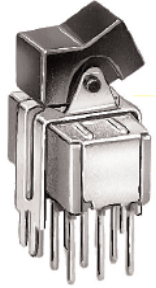
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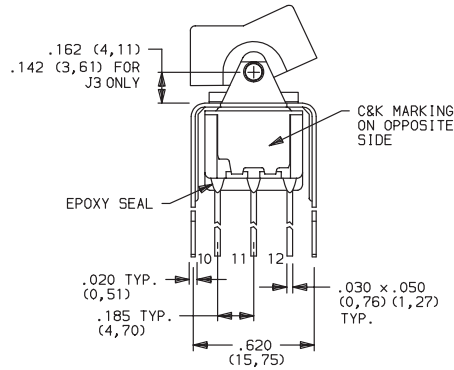
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

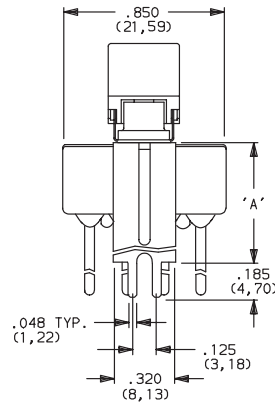
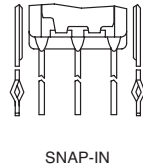
**V4, V9** VERTICAL MOUNT, V-BRACKET



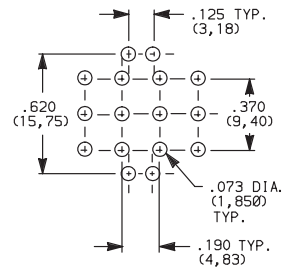
7401J1\_BE2  
4PDT



Actuator Shown In Pos. 1



### PC MOUNTING



OPTION CODE	DIM 'A'
<b>V4</b>	.630 (16,00)
<b>V9</b>	1.150 (29,21)

Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

## CONTACT MATERIAL

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

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

- CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- END CONTACTS: Coin silver, with gold plate over nickel plate.
- CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- END CONTACTS: Coin silver, silver plated.
- CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- TERMINALS: Copper alloy, with matte-tin over nickel plate.

U11-U415 model numbers with all options when ordered with G, Q, S & R contact material.

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

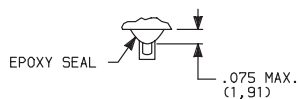
Q contact material standard with C, Z & Z3 terminations.

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

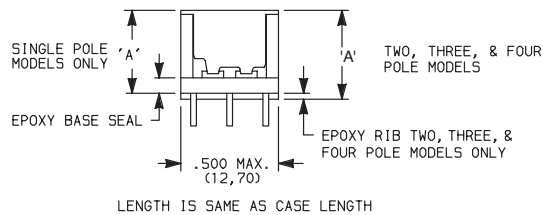
**NOTE:** Any models supplied with Q, B, G S, P & R contact material are RoHS compliant.

## SEAL

**E** EPOXY SEAL



**I** EPOXY POTTED BASE



Available with C, W through W5, Z & Z3 terminations.

NO. POLES	DIM 'A'
SP	.410 (10,41)
DP	.440 (11,18)
3P	.505 (12,83)
4P	.505 (12,83)



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

Rocker



G

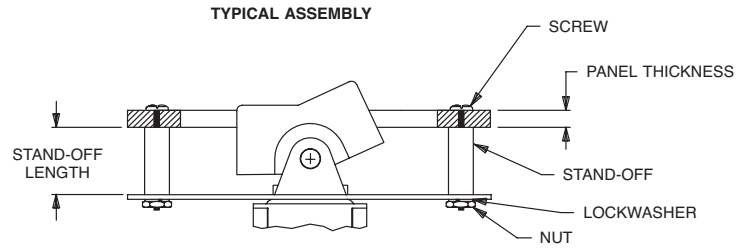
**C&K**

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# 7000 Series Miniature Rocker & Lever Handle Switches

## AVAILABLE HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.



Qty	Part Number	Description
2	761103000	Standoffs
2	764100000	Mounting screws
2	764200000	Lock washers
2	764300000	Hex nuts

### J1 & J2 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
761103000	1/8 IN. (3,18)	.233 (5,92)

### J3 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
770603000	1/8 IN. (3,18)	.233 (5,92)

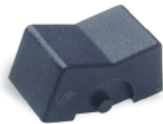
### J10 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
770703000	1/8 IN. (3,18)	.233 (5,92)

### MATERIAL

Screws, nuts, lockwashers: Stainless steel. Standoffs: Nylon, standard.

#### J1, J11, J15 & J16 Actuators



**PART NO.**  
**776A01000** WHITE  
**776A02263** BLACK  
**776A03000** RED

Material: Nylon  
 Finish: Matte

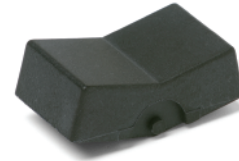
#### J2, J21, J25 & J26 Actuators



**PART NO.**  
**426D01000** WHITE  
**426D02263** BLACK  
**426D03000** RED

Material: Nylon  
 Finish: Matte

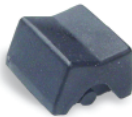
#### J3 & J37 Actuators



**PART NO.**  
**431D01000** WHITE  
**431D02263** BLACK  
**431D03000** RED

Material: Nylon  
 Finish: Matte

#### J50, J51 & J52 Actuators



**PART NO.**  
**775A01000** WHITE  
**775A02263** BLACK  
**775A03000** RED

Material: Nylon  
 Finish: Matte

#### J60, J61 & J62 Actuators



**PART NO.**  
**598101000** WHITE  
**613802263** BLACK  
**598103000** RED

Material: Nylon  
 Finish: Matte



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



# 7000 Series Miniature Rocker & Lever Handle Switches

## AVAILABLE HARDWARE

J90 & J91 Actuators



PART NO.  
**598001000** WHITE  
**598002263** BLACK  
**598003000** RED

Material: Nylon  
 Finish: Matte

J10 & J19 Actuators



PART NO.  
**769501000** WHITE  
**769502263** BLACK  
**769503000** RED

Material: Nylon  
 Finish: Matte

Fits Z3 Termination female connector



PART NO.  
**530100000**

Available in loose pieces.

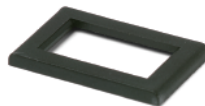
Frame for J11 & J21 Actuators



PART NO.  
**764500746** BLACK ENAMEL  
**764500747** WHITE ENAMEL  
**764601106** RETAINING SPRING

Material: Spring Steel

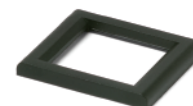
Frame for J16 & J26 Actuators



PART NO.  
**459101000** WHITE  
**459102000** BLACK  
**459103000** RED

Material: Nylon  
 Finish: Matte

Frame for J51, J61 & J91 Actuators



PART NO.  
**615601000** WHITE  
**615602263** BLACK  
**615603000** RED

Material: Nylon  
 Finish: Matte

Frame for J19 Actuator



PART NO.  
**781000746** BLACK ENAMEL  
**781000747** WHITE ENAMEL

Material: Spring Steel

Frame for J37 Actuator



PART NO.  
**445400746** BLACK ENAMEL

Material: Spring Steel

Frame for J52 & J62 Actuators



PART NO.  
**613301000** WHITE  
**613302263** BLACK  
**613303000** RED

Material: Nylon  
 Finish: Matte

Rocker



G

**C&K**

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Third Angle Projection

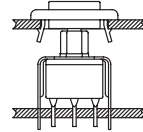
Dimensions are shown: Inches (mm)  
 Specifications and dimensions subject to change

# 7000 Series Miniature Rocker & Lever Handle Switches

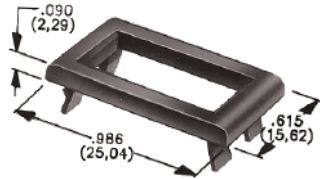
## AVAILABLE HARDWARE

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

TYPICAL APPLICATION



J1 & J2 Actuators



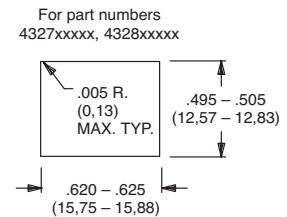
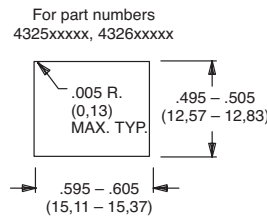
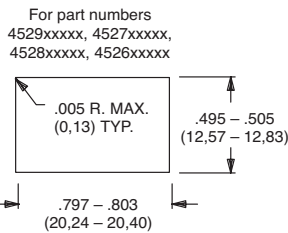
.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO. <b>452902263</b>	PART NO. <b>452702263</b>	PART NO. <b>452802263</b>	PART NO. <b>452602263</b> BLACK

J50, J60 & J90 Actuators



.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO. <b>432502263</b>	PART NO. <b>432602263</b>	PART NO. <b>432702263</b>	PART NO. <b>432802263</b> BLACK

### PANEL MOUNTING



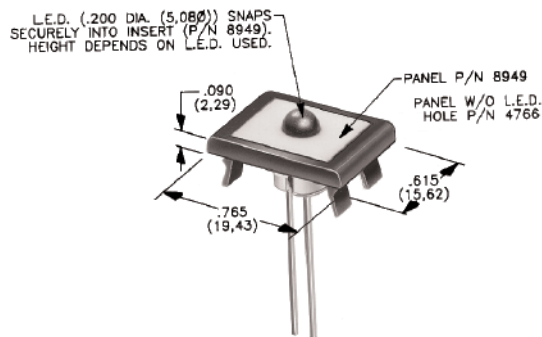
# 7000 Series Miniature Rocker & Lever Handle Switches

## AVAILABLE HARDWARE

### Panel Inserts

Will fit Separate Snap-in frames for J50, J60 & J90 actuators

Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. **LED not included.**



**PANEL INSERT WITH HOLE FOR LED**

**PART NO.**  
**894902000**

**BLANK PANEL INSERT WITHOUT HOLE FOR LED**

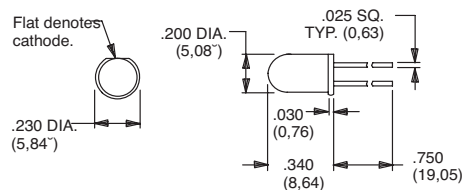
**PART NO.**  
**476602000 BLACK**

**NOTE:** Special colors, custom markings available, consult Customer Service Center.

### LED INFORMATION

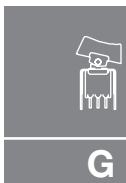
**Process Information:** Soldering to LED leads must be completed within 5 seconds at 500° F (260°C) maximum.

LEDs are not supplied with J52, J62 options. LED snaps into switch frame surrounding actuator and is wired externally.



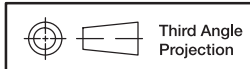
Suggested LED for J52 & J62 options.  
Dimensions for reference only.

Rocker



**C&K**

27 mar 17



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

# E Series

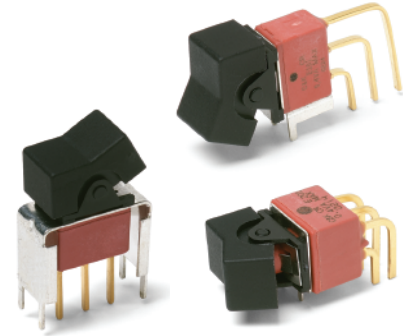
## Sealed Miniature Rocker and Lever Handle Switches

### Features/Benefits

- Sealed against solder and cleaning process contaminants
- ESD Resistance—all actuator options
- Rocker, case & bushing UL 94V-0
- RoHS compliant

### Typical Applications

- Telecommunications
- Instrumentation
- Computers & peripherals



### Specifications

**CONTACT RATING:** B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material (E1XX & E2XX Models): 7.5 AMPS @125 V AC or 28 V DC; 3 AMPS @ 250 V AC. (E3XX Models): 5 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC. See page G-36 for additional ratings.

**ELECTRICAL LIFE:** E1XX and E2XX models: 40,000 make-and-break cycles at full load. E3XX models: 30,000 cycles.

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

**INSULATION RESISTANCE:** 10<sup>9</sup> Ω min.

**ELECTROSTATIC DISCHARGE (ESD) OPTION:** All actuator options: 15,000 V DC max. @ sea level, actuator to terminals.

**DIELECTRIC STRENGTH:** 1000 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 & BUSHING:** Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0).

**ACTUATOR:** Nylon, black standard, internal o-ring seal standard with all actuators.

**FRAME:** Spring steel, black standard.

**SWITCH SUPPORT:** Brass or steel, matte-tin plated.

**ACTUATOR PIVOT & MOUNTING BRACKET:** Nylon.

**ACTUATOR PIVOT RETAINER:** Stainless steel.

**CONTACTS & TERMINALS:** B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-36 for additional contact materials.

**TERMINAL SEAL:** Epoxy.

**HARDWARE:** Nut, Screw & Lockwasher: Stainless steel.  
Standoff: Nylon standard, aluminum available, consult Customer Service Center.

**NOTE:** Any models supplied with Q, B, G, S, P & 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 G-26 through G-38. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.

<p><b>Switch Function</b></p> <p><b>E101</b> SP On-None-On  <b>E103</b> SP On-Off-On  <b>E105</b> SP Mom.-Off-Mom.  <b>E107</b> SP On-Off-Mom.  <b>E108</b> SP On-None-Mom.  <b>E201</b> DP On-None-On  <b>E203</b> DP On-Off-On  <b>E205</b> DP Mom.-Off-Mom.  <b>E207</b> DP On-Off-Mom.  <b>E208</b> DP On-None-Mom.  <b>E211</b> DP On-On-On  <b>E213</b> DP On-On-Mom.  <b>E215</b> DP Mom.-On-Mom.  <b>E301</b> 3P On-None-On</p>	<p><b>Actuator</b></p> <p><b>J1</b> .531 long rocker  <b>J2</b> Lever  <b>J3</b> .906" long rocker  <b>J11</b> Rocker with frame  <b>J21</b> Lever with frame  <b>J50</b> .362" long rocker  <b>J60</b> Lever  <b>J90</b> Lever</p>	<p><b>Terminations</b></p> <p><b>A</b> Right angle, PC thru-hole  <b>AV2</b> Vertical right angle, PC thru-hole  <b>C</b> PC Thru-hole  <b>Z</b> Solder lug  <b>A3</b> Right angle, snap-in, PC thru-hole  <b>AV3</b> Vertical right angle, snap-in, PC thru-hole  <b>V3</b> .460" high, V-bracket  <b>V4</b> .630" high, V-bracket  <b>V5</b> Vertical right angle, PC thru-hole  <b>V6</b> .460" high, V-bracket  <b>V7</b> .630" high, V-bracket  <b>V8</b> .953" high, V-bracket  <b>V21</b> .555" high, V-bracket, snap-in  <b>V31</b> .460" high, V-bracket, snap-in</p>	<p><b>Contact Material</b></p> <p><b>B</b> Gold  <b>P</b> Gold, matte tin  <b>Q</b> Silver  <b>S</b> Silver, matte-tin  <b>G</b> Gold over silver  <b>R</b> Gold over silver, matte-tin</p> <p><b>Seal</b></p> <p><b>E</b> Epoxy</p> <p><b>Actuator Color</b></p> <p><b>2</b> Black  <b>3</b> Red</p> <p><b>Frame Color</b></p> <p><b>2</b> Black  <b>NONE</b> No frame color required</p> <p><b>Metal Frame Color</b>          (J11, J21 Actuators)  <b>2</b> Black</p>
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Rocker



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





# E Series Sealed Miniature Rocker and Lever Handle 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	<b>E101</b>	ON	NONE	ON	2-3	N/A	2-1	
	<b>E103</b>	ON	OFF	ON				
	<b>E105</b>	MOM.	OFF	MOM.				
	<b>E107</b>	ON	OFF	MOM.				
	<b>E108</b>	ON	NONE	MOM.				
<b>SPDT</b>								
DP	<b>E201</b>	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	<b>E203</b>	ON	OFF	ON				
	<b>E205</b>	MOM.	OFF	MOM.				
	<b>E207</b>	ON	OFF	MOM.				
	<b>E208</b>	ON	NONE	MOM.				
	<b>E211**</b>	ON	ON	ON				
	<b>E213**</b>	ON	ON	MOM.				
	<b>E215**</b>	MOM.	ON	MOM.				
<b>DPDT</b>								

MOM. = Momentary

\*\* Wiring for 3-way switch, Hardware available separately, see Technical Data section of this catalog.

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

Rocker



G

**C&K**



Third Angle Projection

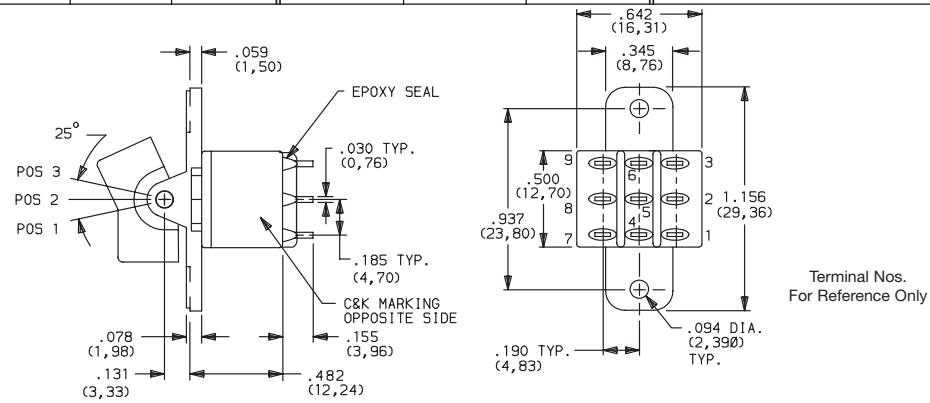
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# E Series Sealed Miniature Rocker and Lever Handle Switches

## SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
3P	<b>E301</b>	ON	NONE	ON	2-3-5-6,8-9	N/A	2-1,5-4,8-7	<p>3PDT</p>

3PDT



Part number shown: E301J1ZBE2

MOM. = Momentary

\*\* Wiring for 3-way switch, see Technical Data section of this catalog.

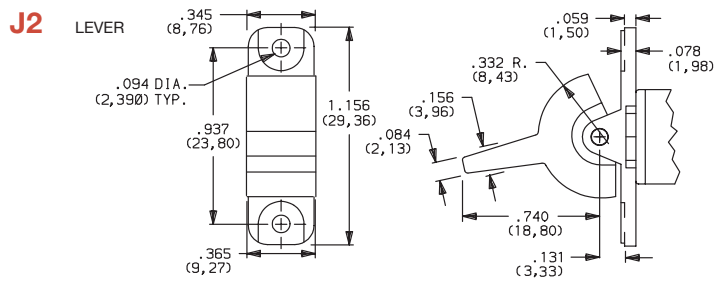
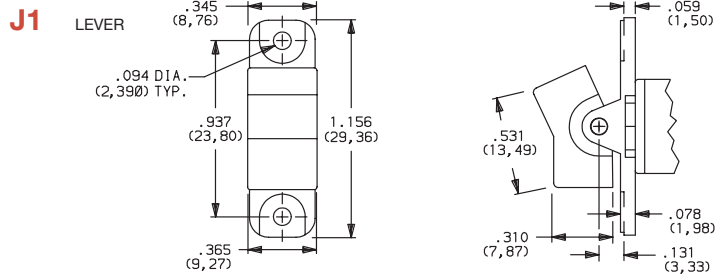
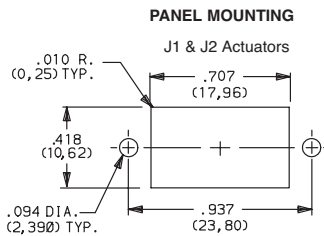
All models with all options when ordered with G, Q, R and S contact material.

## ACTUATOR-PANEL REAR MOUNT

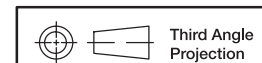
OPTION CODE	ACTUATOR COLOR
<b>2</b>	BLACK
<b>3</b>	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available separately, see page G-36. Hardware available separately, see Technical Data section of this catalog. J1, J2 actuators available with C, Z or Z3 terminations.



Rocker



Third Angle Projection

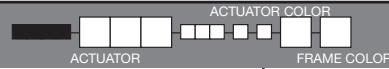
Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

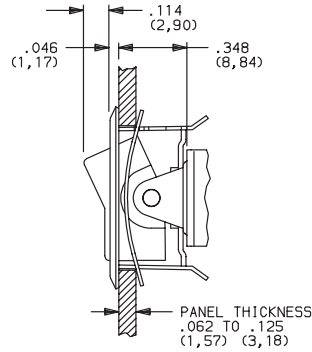
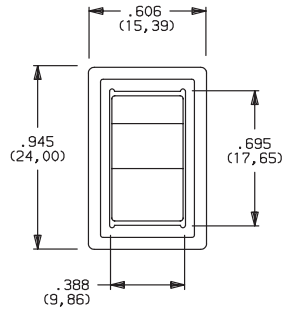


# E Series Sealed Miniature Rocker and Lever Handle Switches

## ACTUATOR-REAR MOUNT



### J11 ROCKER WITH FRAME

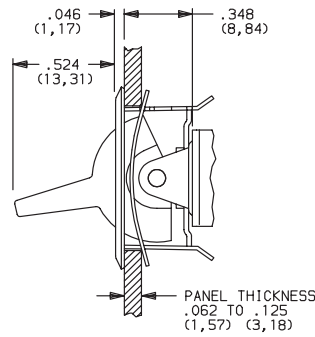
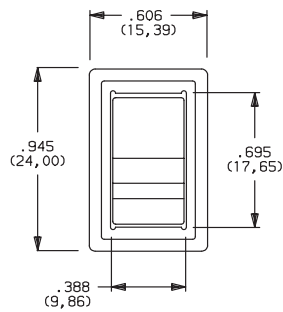


NOTE: This option has reduced anti-static capability.

OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

OPTION CODE	FRAME COLOR
2	BLACK

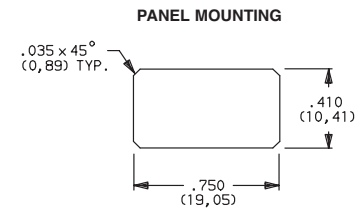
### J21 LEVER WITH FRAME



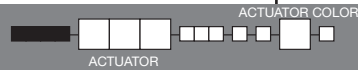
NOTE: This option has reduced anti-static capability.

Actuator finish: Matte, frame finish: gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

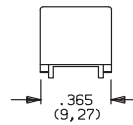
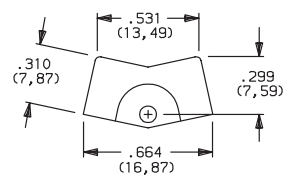
NOTE: Internal o-ring actuator seal standard. Actuators & frames available separately, see page G-36. Hardware available separately, see Technical Data section of this catalog. N, J11 & J21 actuators available with C, Z & Z3 terminations.



## ACTUATOR-PC MOUNT

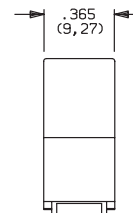
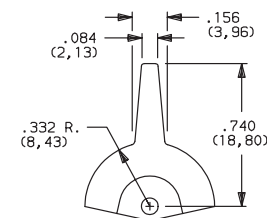


### J1 ROCKER



OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

### J2 LEVER



Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available separately, see page G-36. Hardware available separately, see Technical Data section of this catalog. J1, J2 actuators available with A, A3, AV2, AV3, V2-V61 terminations.

Rocker



G

**C&K**

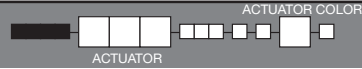


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ckswitches.com

# E Series Sealed Miniature Rocker and Lever Handle Switches

## ACTUATOR-PC MOUNT



OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

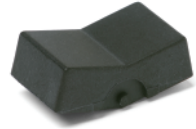
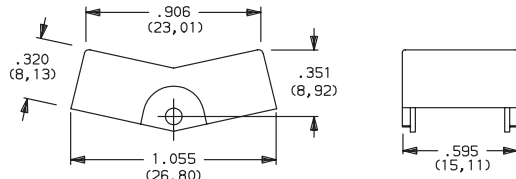
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available separately, see page G-36. Hardware available separately, see Technical Data section of this catalog.

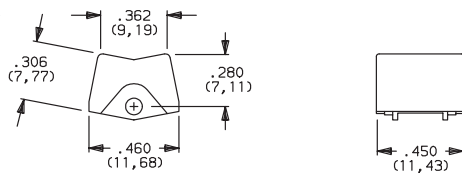
J3 actuators available with AV2, AV3 & V2-V61 terminations. Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

J50, J60 & J90 actuators available with A, AV2, AV3, V2 - V61 terminations.

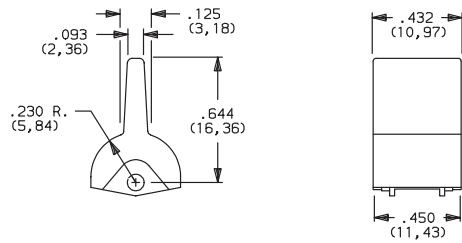
### J3 ROCKER



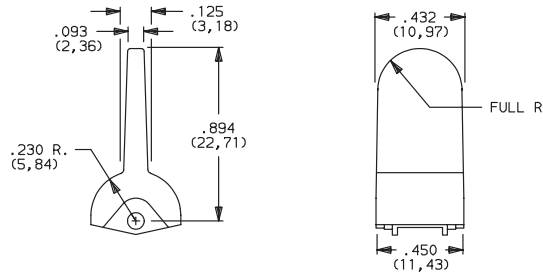
### J50 ROCKER



### J60 LEVER



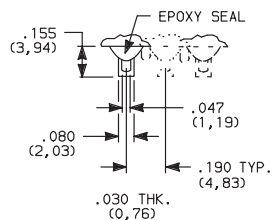
### J90 LEVER



## TERMINATIONS



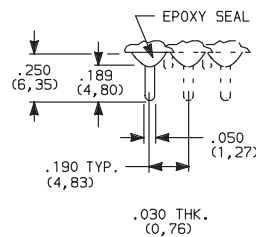
### Z SOLDER LUG



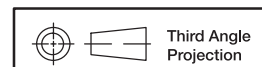
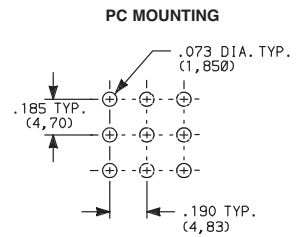
### SPDT thru 3PDT

Not available with P, S, & R contact materials. Available actuators, see page G-27-28.

### C PC THRU-HOLE



### SPDT thru 3PDT



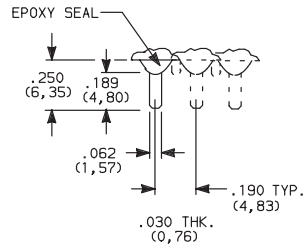
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

### Z3 QUICK CONNECT



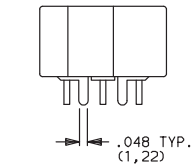
Not available with P, S, & R contact materials. Available actuators, see pages G-27 thru G-28. Mating quick connector available; order part number 530100000, page G-37.

### SPDT thru 3PDT

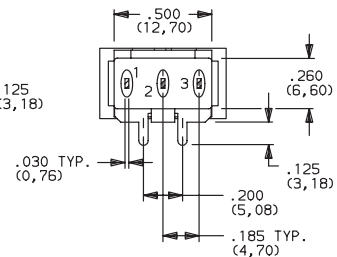
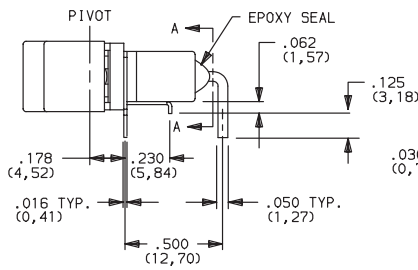
#### A RIGHT ANGLE, PC THRU-HOLE



**E101J1ABE2**  
Horizontal Actuation  
**SPDT**

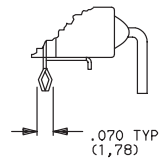
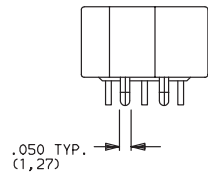


Actuator Shown In Pos. 1

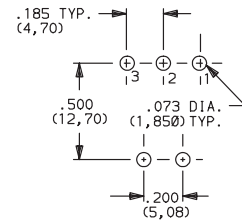


SECTION A-A

#### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



#### PC MOUNTING



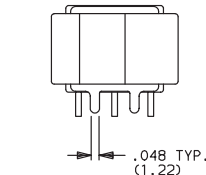
**NOTE:** PC mounting pattern must clear switch support leg.

**NOTE:** Not available with J3, J50, J60 and J90 actuators. Available actuators, see pages G-27 thru G-29. Terminal bend radii and lead-in manufacturing option.

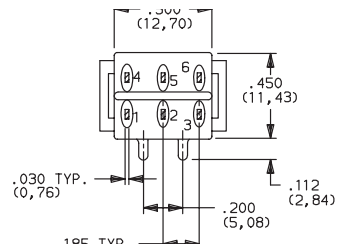
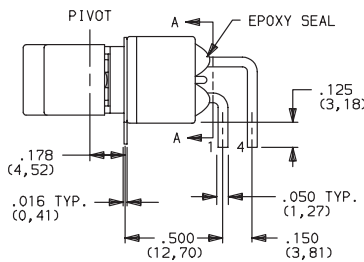
#### A RIGHT ANGLE, PC THRU-HOLE



**E201J1ABE2**  
Horizontal Actuation  
**DPDT**

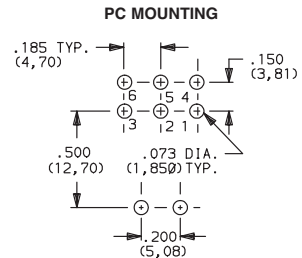
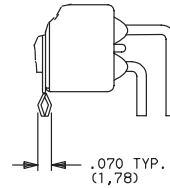
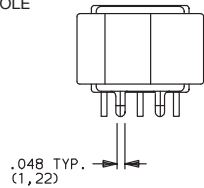


Actuator Shown In Pos. 1



SECTION A-A

#### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



Rocker

**NOTE:** Not available with J3 actuator. Available actuators, see pages G-27 thru G-29. Terminal bend radii and lead-in manufacturing option.



Third Angle Projection

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

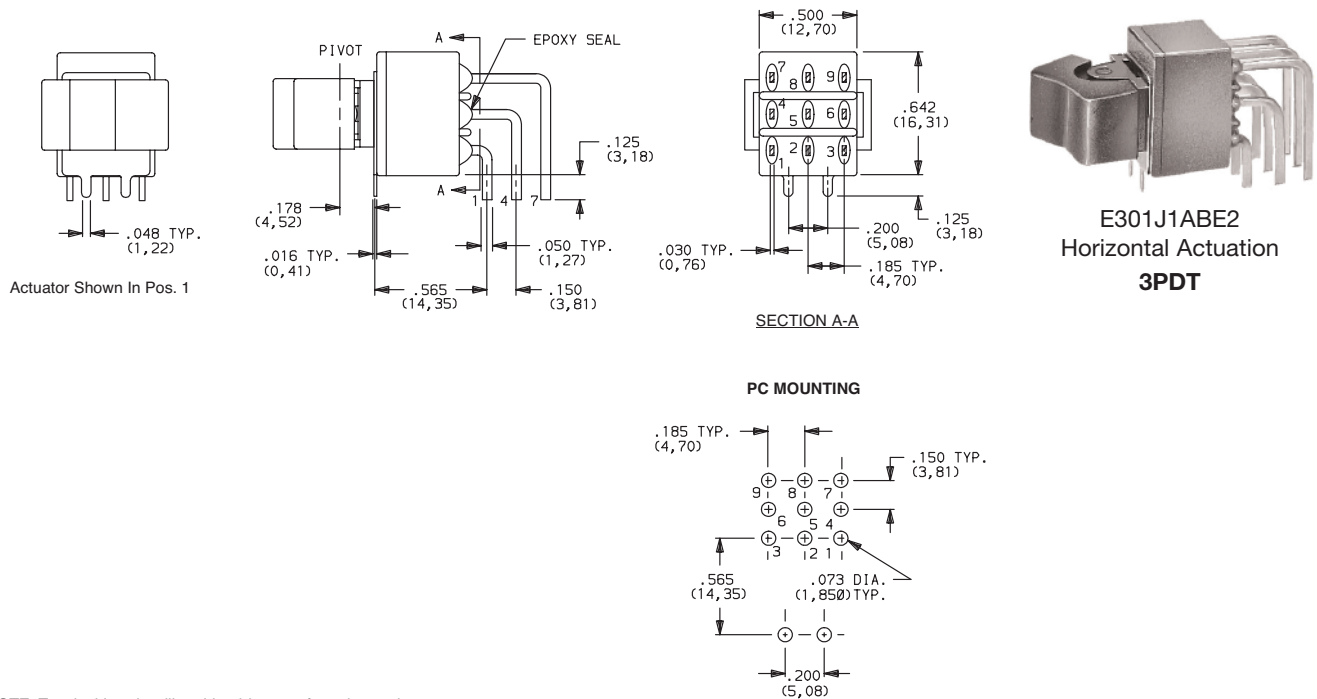
G

**C&K**

# E Series Sealed Miniature Rocker and Lever Handle Switches

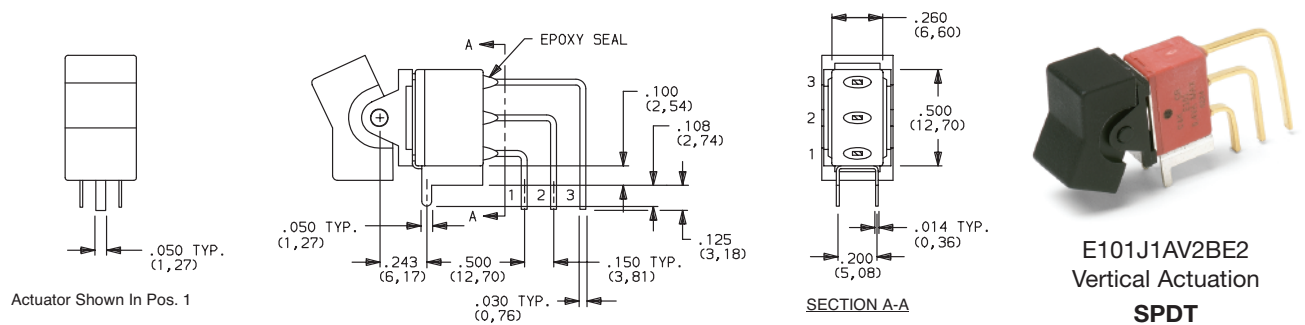
## TERMINATIONS

### A RIGHT ANGLE, PC THRU-HOLE

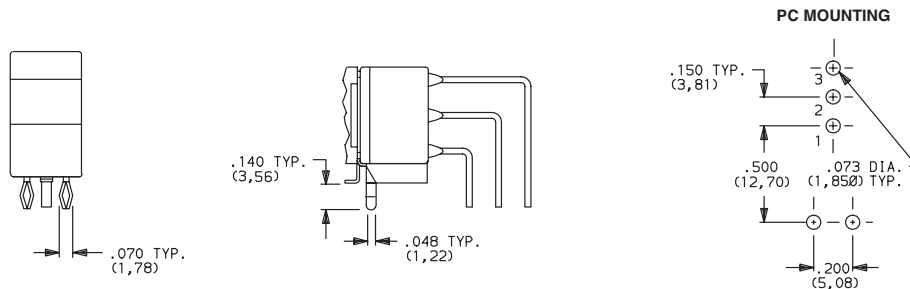


**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-27 thru G-29.

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



### AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-27 thru G-29.



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

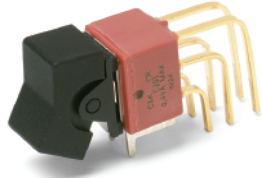
www.ckswitches.com



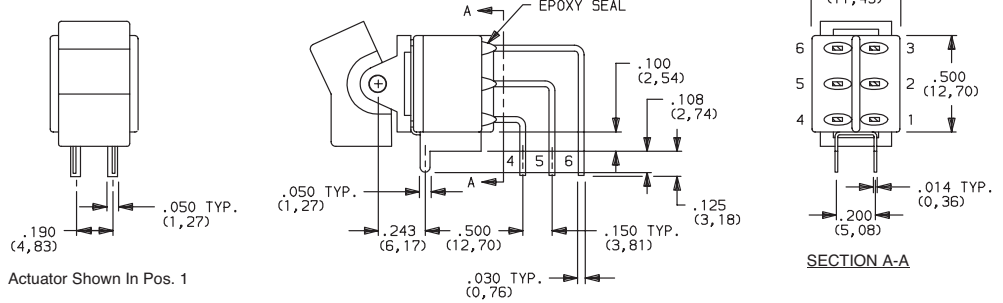
# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

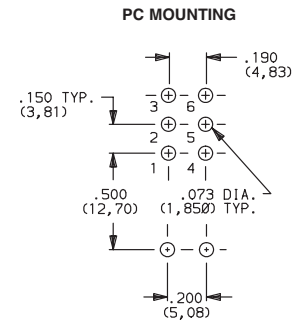
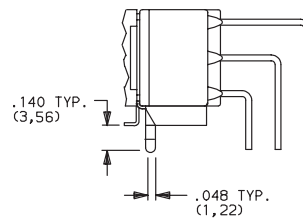
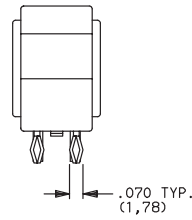
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**E201J1AV2BE2**  
Vertical Actuation  
**DPDT**

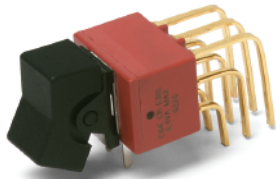


**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH

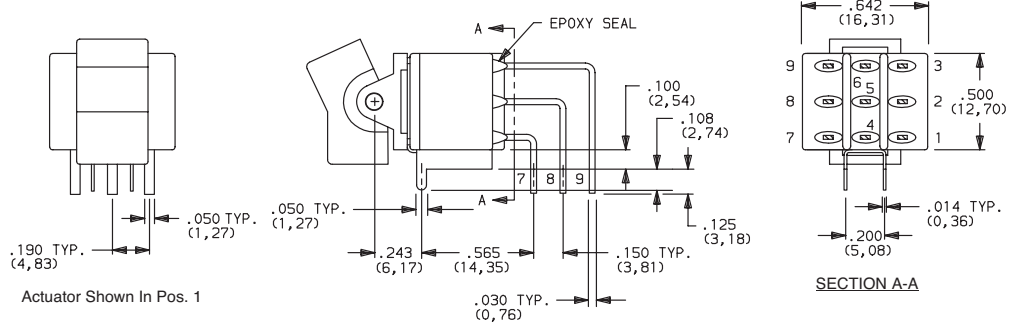


**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-27 thru G-29.

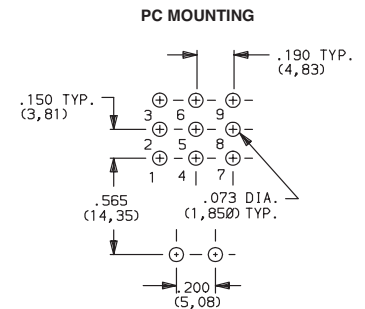
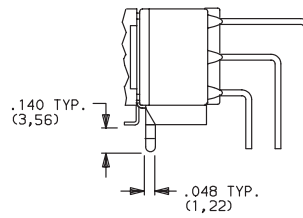
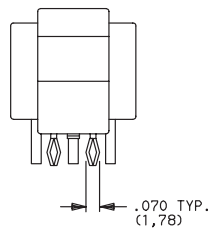
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**E301J1AV2BE2**  
Vertical Actuation  
**3PDT**



**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH



**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-27 thru G-29.

Rocker



G

**C&K**

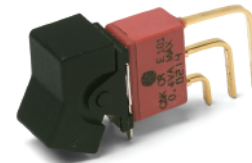
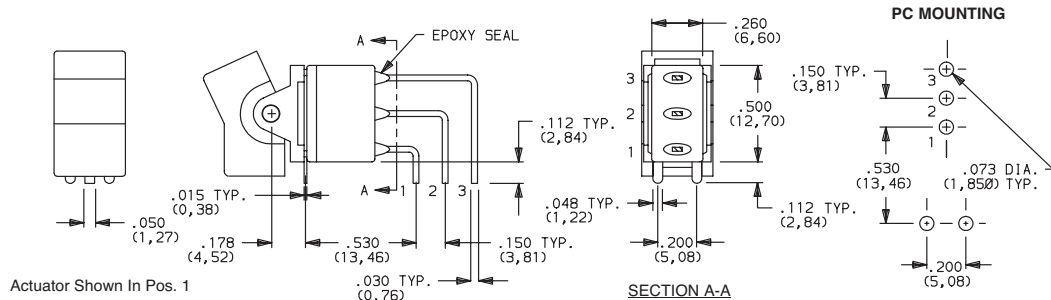


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

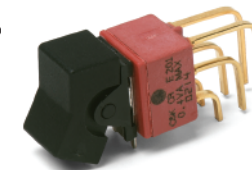
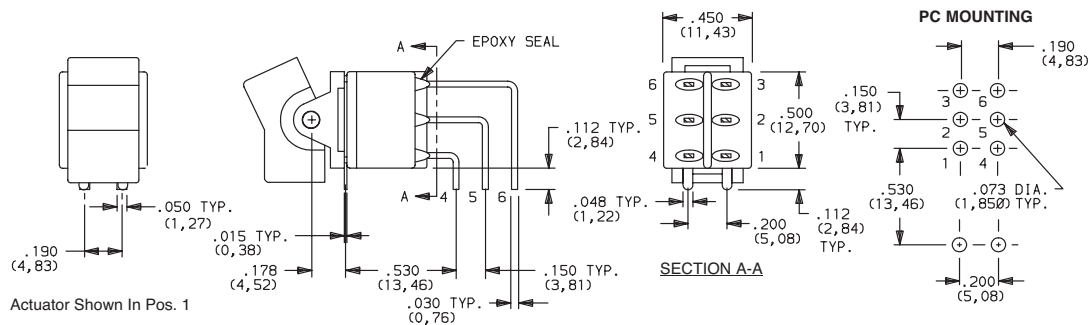
**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**E101J1V5BE2**  
Vertical Actuation  
**SPDT**

**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-27 thru G-29.

**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**E201J1V5BE2**  
Vertical Actuation  
**DPDT**

**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-27 thru G-29.

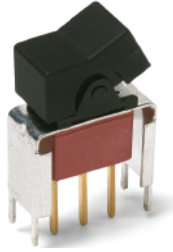


# E Series Sealed Miniature Rocker and Lever Handle Switches

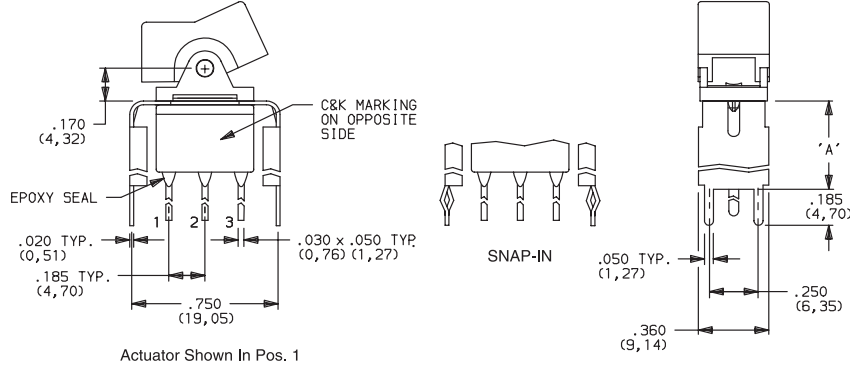
## TERMINATIONS

**V6, V7, V8** VERTICAL MOUNT, V-BRACKET

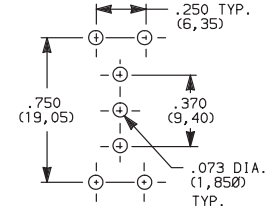
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



**E101J1\_\_BE2**  
**SPDT**



### PC MOUNTING

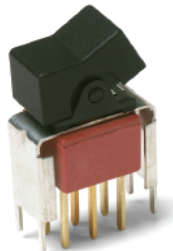


OPTION CODE	DIM 'A'
<b>V21</b>	.555 (14, 10)
<b>V6</b>	.460 (11, 68)
<b>V7</b>	.630 (16, 00)
<b>V8</b>	.953 (24, 21)

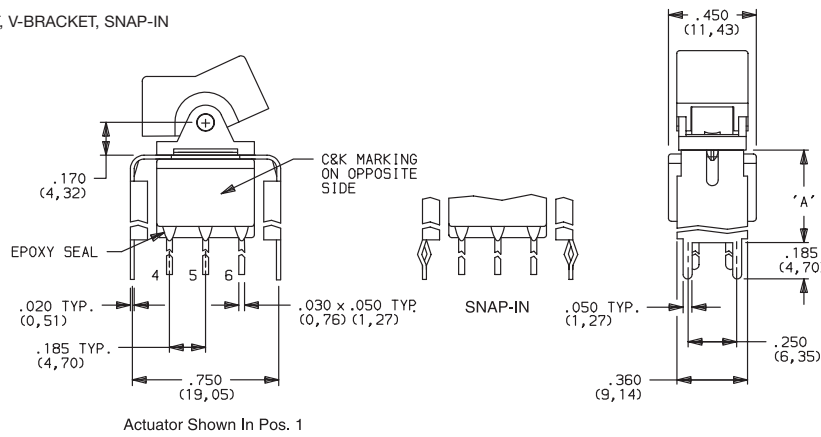
**NOTE:** Available actuators, see pages G-27 thru G-29.

**V6, V7, V8** VERTICAL MOUNT, V-BRACKET

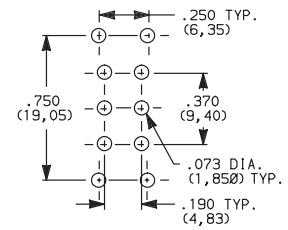
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



**E201J1\_\_BE2**  
**DPDT**



### PC MOUNTING

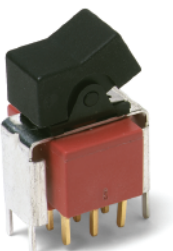


OPTION CODE	DIM 'A'
<b>V21</b>	.555 (14, 10)
<b>V6</b>	.460 (11, 68)
<b>V7</b>	.630 (16, 00)
<b>V8</b>	.953 (24, 21)

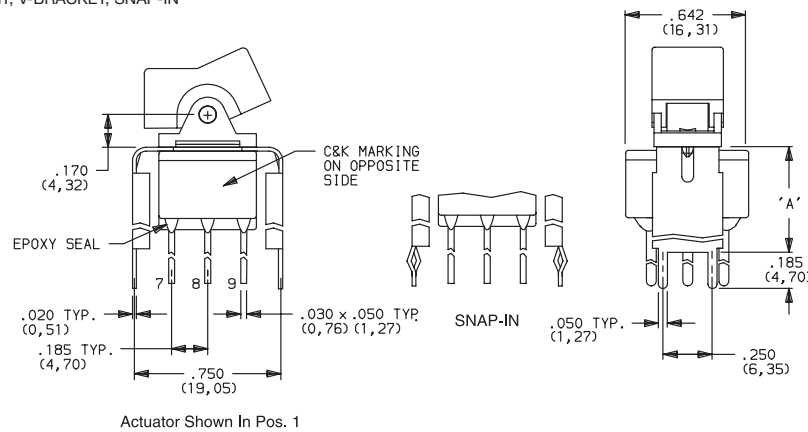
**NOTE:** Available actuators, see pages G-27 thru G-29.

**V7, V8** VERTICAL MOUNT, V-BRACKET

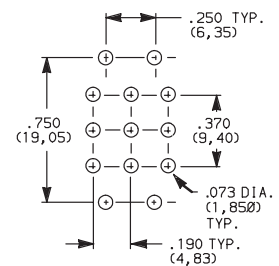
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



**E301J1\_\_BE2**  
**3PDT**



### PC MOUNTING



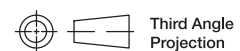
OPTION CODE	DIM 'A'
<b>V21</b>	.555 (14, 10)
<b>V7</b>	.630 (16, 00)
<b>V8</b>	.953 (24, 21)

**NOTE:** Available actuators, see pages G-27 thru G-29.

**Rocker**



**G**



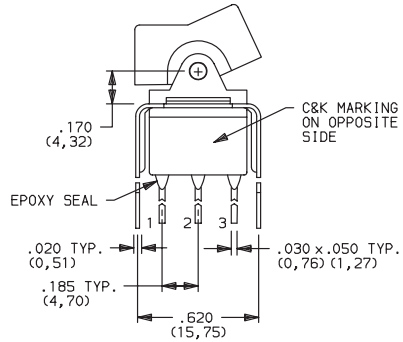
Third Angle Projection  
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# E Series Sealed Miniature Rocker and Lever Handle Switches

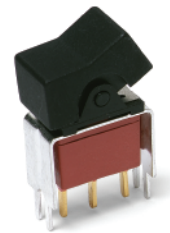
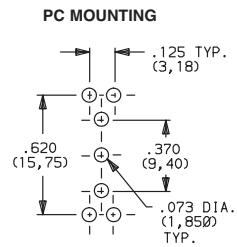
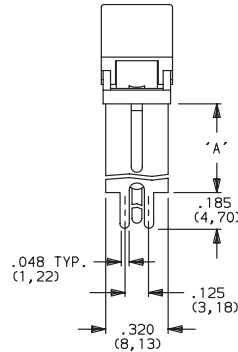
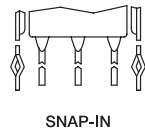
## TERMINATIONS

**V3, V4** VERTICAL MOUNT, V-BRACKET

**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



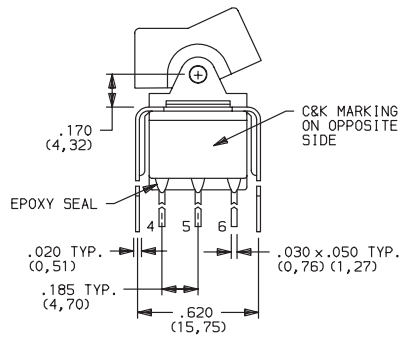
**E101J1\_BE2**  
**SPDT**

OPTION CODE	DIM 'A'
<b>V3, V31</b>	.460 (11,68)
<b>V4</b>	.630 (16,00)

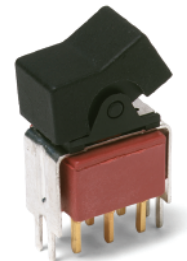
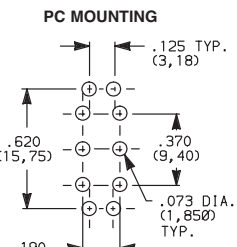
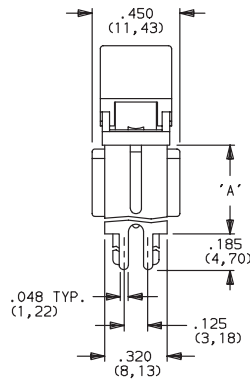
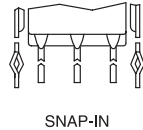
**NOTE:** Available actuators, see pages G-27 thru G-29.

**V3, V4** VERTICAL MOUNT, V-BRACKET

**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



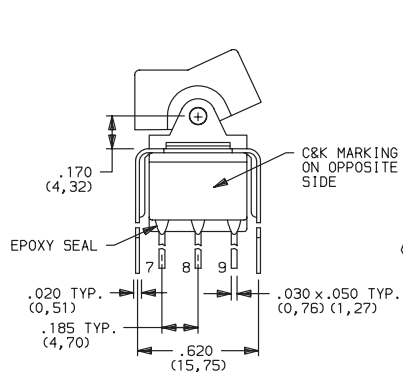
**E201J1\_BE2**  
**DPDT**

OPTION CODE	DIM 'A'
<b>V3, V31</b>	.460 (11,68)
<b>V4</b>	.630 (16,00)

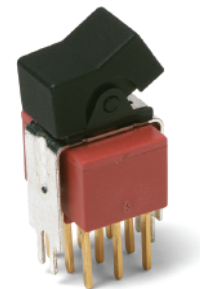
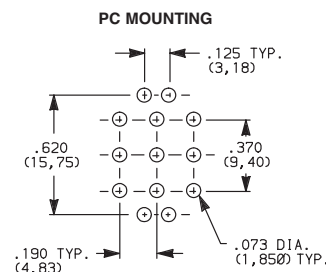
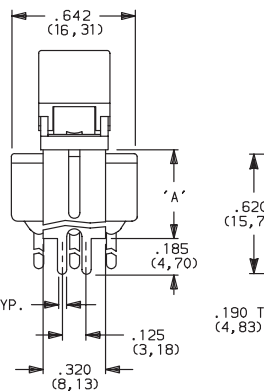
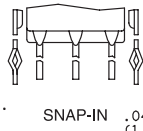
**NOTE:** Available actuators, see pages G-27 thru G-29.

**V4** VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



**E301J1\_BE2**  
**3PDT**

OPTION CODE	DIM 'A'
<b>V41</b>	.630 (16,00)

**NOTE:** Available actuators, see pages G-27 thru G-29.



# E Series Sealed Miniature Rocker and Lever Handle Switches

## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
<b>B</b>	GOLD <sup>1</sup>	GOLD <sup>1</sup>	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
<b>P</b>		MATTE-TIN <sup>7</sup>		
<b>Q</b>	SILVER <sup>4,5</sup>	SILVER <sup>5</sup>	POWER	E1XX & E2XX MODELS: 7.5 AMPS @125 V AC OR 28 V DC; 3 AMPS @250 V AC. E3XX MODELS: 5 AMPS @ 125 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
<b>S</b>		MATTE-TIN <sup>6</sup>		
<b>G</b>	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	E1XX AND E2XX MODELS: 0.4 VA MAX @20 V AC OR DC MAX. OR 7.5 AMPS @125 V AC OR 28 V DC; 3 AMPS @ 250 V AC. DC E3XX MODELS: 0.4 VA MAX. @ 20 V AC OR DC MAX. OR 5 AMPS @ 125 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
<b>R</b>		MATTE-TIN <sup>6</sup>		

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

<sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.

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

<sup>4</sup> END CONTACTS: Coin silver, silver plated.

<sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, with gold flash over silver plate. Or copper alloy, silver plated.

<sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

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

All models with all options when ordered with G, Q, S & R contact material.

B contact material standard with all terminations.

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

## SEAL

**E** EPOXY SEAL



## AVAILABLE HARDWARE

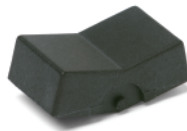
J2, J21 Actuators



PART NO.  
**760502263** BLACK  
**760503000** RED

Material: Nylon  
Finish: Matte

J3 Actuator



PART NO.  
**766602263** BLACK  
**766603000** RED

Material: Nylon  
Finish: Matte

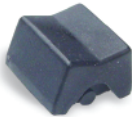
J1, J11 Actuators



PART NO.  
**776A02263** BLACK  
**776A03000** RED

Material: Nylon  
Finish: Matte

J50 Actuator



PART NO.  
**775A02263** BLACK  
**775A03000** RED

Material: Nylon  
Finish: Matte

J60 Actuator



PART NO.  
**613802263** BLACK  
**598103000** RED

Material: Nylon  
Finish: Matte

J90 Actuator



PART NO.  
**598002263** BLACK  
**598003000** RED

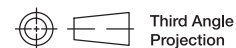
Material: Nylon  
Finish: Matte

Rocker



G

NOTE: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog. Other colors available, consult Customer Service Center.



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change



# E Series Sealed Miniature Rocker and Lever Handle Switches

## AVAILABLE HARDWARE

Fits Z3 Termination female connector



PART NO.  
**530100000**

Available in loose pieces.

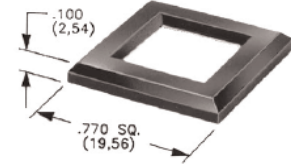
Frame for J11, J21 Actuators



PART NO.  
**764500746** BLACK ENAMEL  
**764601106** RETAINING SPRING  
Material: Spring Steel



J50, J60 & J90 Actuators



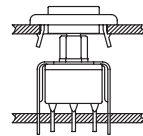
MATTE  
PART NO.  
**486702000**

GLOSS  
PART NO.  
**486802000** BLACK  
Material: Nylon  
Finish: Matte or Gloss

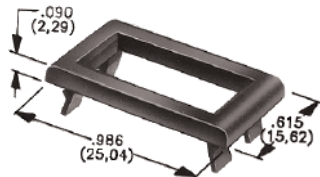
**NOTE:** Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog. Other colors available, consult Customer Service Center.

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

TYPICAL APPLICATION

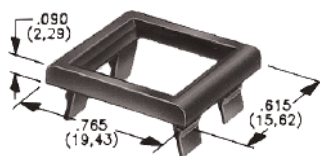


J1 & J2 Actuators



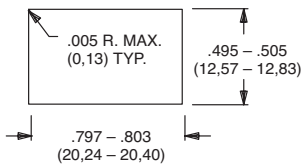
.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO. <b>452902263</b> <b>452903000</b>	PART NO. <b>452702263</b> <b>452703000</b>	PART NO. <b>452802263</b> <b>452803000</b>	PART NO. <b>452602263</b> BLACK <b>452603000</b> RED

J50, J60 & J90 Actuators



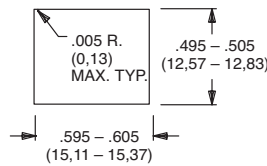
.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO. <b>432502263</b> <b>432503000</b>	PART NO. <b>432602263</b> <b>432603000</b>	PART NO. <b>432702263</b> <b>432703000</b>	PART NO. <b>432802263</b> BLACK <b>432803000</b> RED

For part numbers  
4529xxxxx, 4527xxxxx,  
4528xxxxx, 4526xxxxx

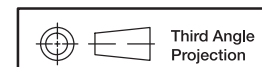
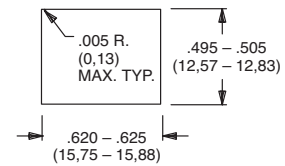


PANEL MOUNTING

For part numbers  
4325xxxxx, 4326xxxxx



For part numbers  
4327xxxxx, 4328xxxxx



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



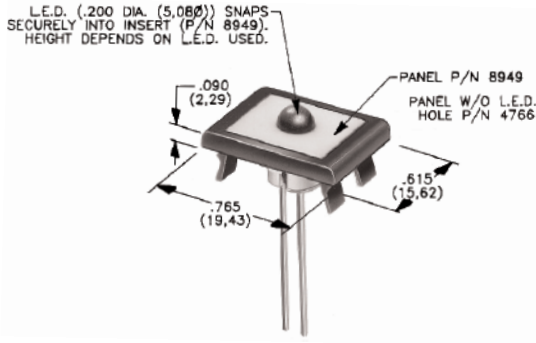
# E Series Sealed Miniature Rocker and Lever Handle Switches

## AVAILABLE HARDWARE

### Panel Inserts

Will fit separate snap-in frames for J50, J60, J90 actuators.

Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. **LED not included.**



PANEL INSERT WITH HOLE FOR LED

BLANK PANEL INSERT WITHOUT HOLE FOR LED

PART NO.  
894902000  
894903000

PART NO.  
476602000 BLACK  
476603000 RED

NOTE: Special colors, custom markings available, consult Customer Service Center.

Rocker



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

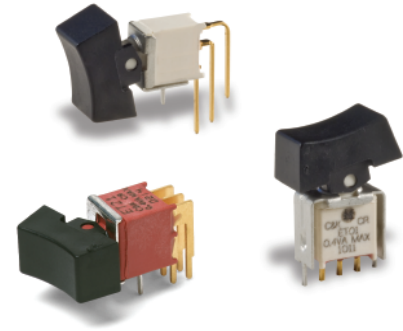
# ET Series Sealed Subminiature Rocker Switches

## Features/Benefits

- Sealed against solder and cleaning process contaminants
- Rocker, bushing & case—UL 94V-0
- Small footprint—saves space
- RoHS compliant

## Typical Applications

- Telecommunications
- Instrumentation
- Computers & peripherals



## Specifications

**CONTACT RATING:** B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: Copper alloy, silver plated. See page G-43 for additional ratings.

**ELECTRICAL LIFE:** ETX1 models: 60,000 make-and-break cycles at full load. All other 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:** 10<sup>9</sup> Ω min.

**DIELECTRIC STRENGTH:** 1000 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).

**PACKAGING:** Surface mount switches standard in tape and reel packaging, see page G-45 for drawings and reel information.

## Materials

**CASE & BUSHING:** Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0) or glass filled 4/6 nylon, flame retardant, heat stabilized (UL 94V-0).

**ACTUATOR:** Nylon, black standard. Internal o-ring seal standard with all actuators. SA surface mount: High temperature material, glass filled 46 nylon, flame retardant, heat stabilized (UL 94V-0).

**SWITCH SUPPORT:** Brass, matte-tin plated.

**CONTACTS & TERMINALS:** B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-43 for additional contact materials.

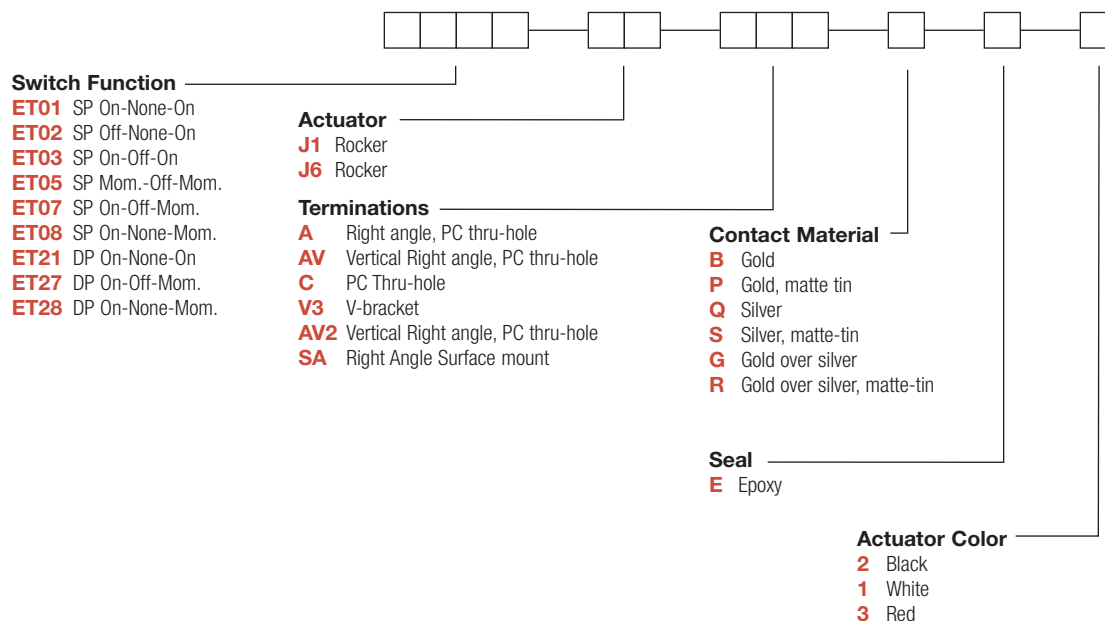
**TERMINAL SEAL:** Epoxy.

**NOTE:** Any models supplied with Q, B, G, S, P & 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 G-40 thru G-44. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.



# ET Series Sealed Subminiature Rocker 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	<b>ET01</b>	ON	NONE	ON	2-3	N/A	2-1	
	<b>ET03</b>	ON	OFF	ON		OPEN		
	<b>ET05</b>	MOM.	OFF	MOM.				
	<b>ET07</b>	ON	OFF	MOM.	N/A			
	<b>ET08</b>	ON	NONE	MOM.				
	<b>ET02</b>	OFF	NONE	ON	OPEN	N/A	3-1	
<p><b>SPDT</b></p>								
DP	<b>ET21</b>	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	<b>ET27</b>	ON	OFF	MOM.		OPEN		
	<b>ET28</b>	ON	NONE	MOM.				
<p><b>DPDT</b></p>								

MOM. = Momentary

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

Rocker



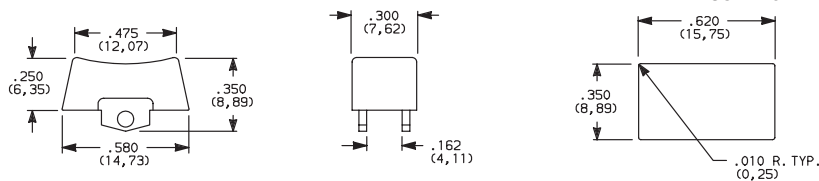
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

[www.ckswitches.com](http://www.ckswitches.com)

# ET Series Sealed Subminiature Rocker Switches

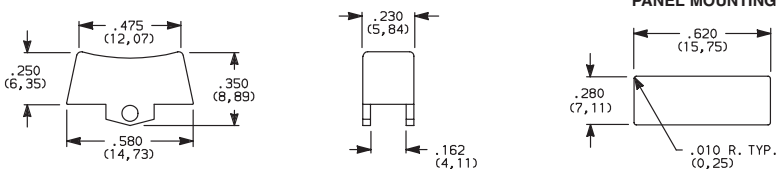
## ACTUATOR

### J1 ROCKER



Available with all models except ETOX with A & SA & SA1 terminations.

### J6 ROCKER



Standard with ETOX model with A & SA & SA1 terminations.

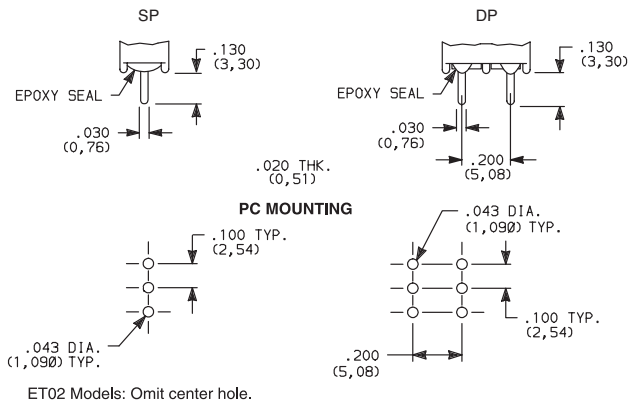
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Actuators available separately, see page G-45. Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Internal o-ring actuator seal standard.

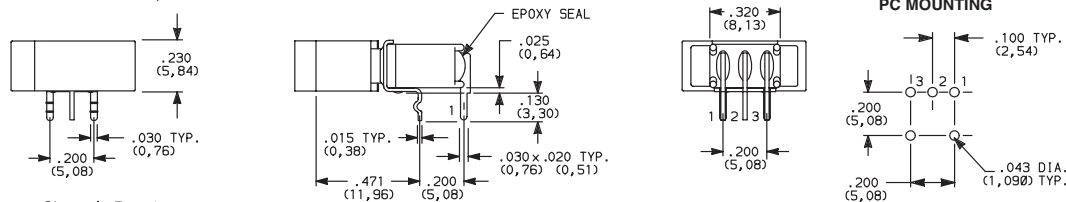
## TERMINATIONS

### C PC THRU-HOLE



### SP & DP

#### A RIGHT ANGLE, PC THRU-HOLE



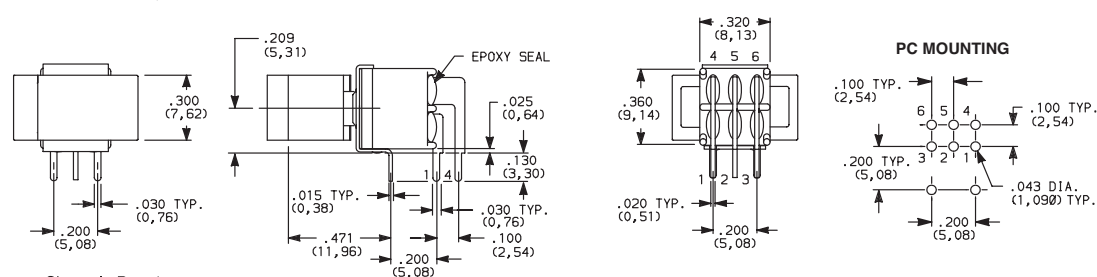
Actuator Shown In Pos. 1

Not available with ET02 model.  
J6 actuator std. only on ETOX models with A terminations.

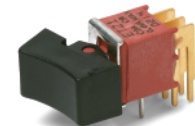


ET01J6ABE2  
Horizontal Actuation  
SPDT

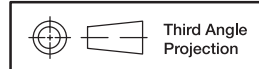
#### A RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1



ET21J1ABE2  
Horizontal Actuation  
DPDT



Third Angle  
Projection

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

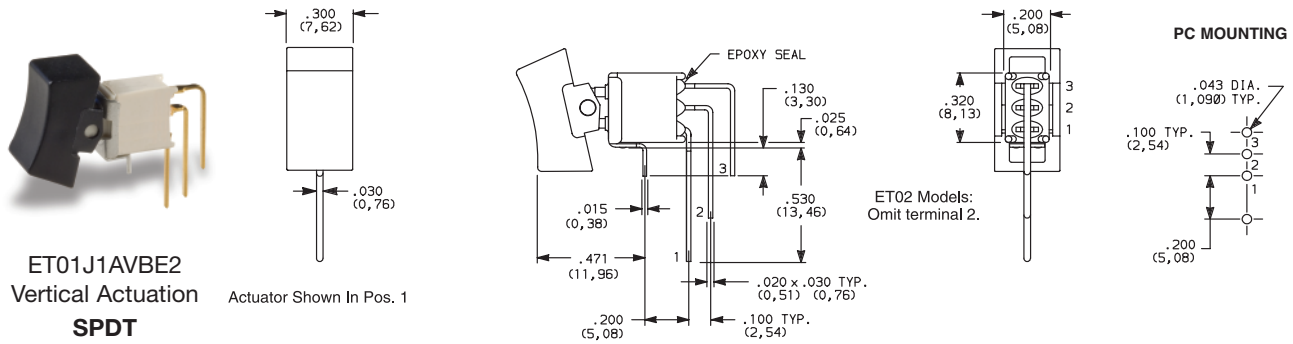




# ET Series Sealed Subminiature Rocker Switches

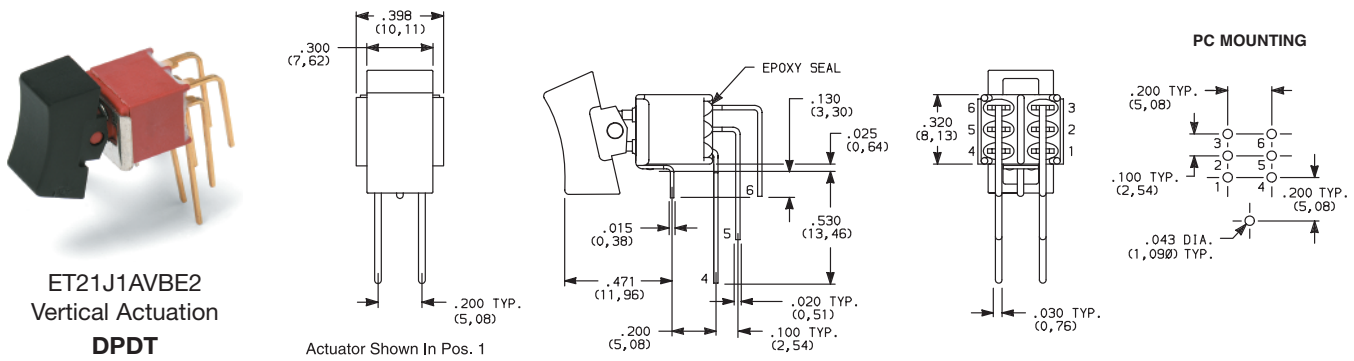
## TERMINATIONS

**AV** VERTICAL RIGHT ANGLE, PC THRU-HOLE



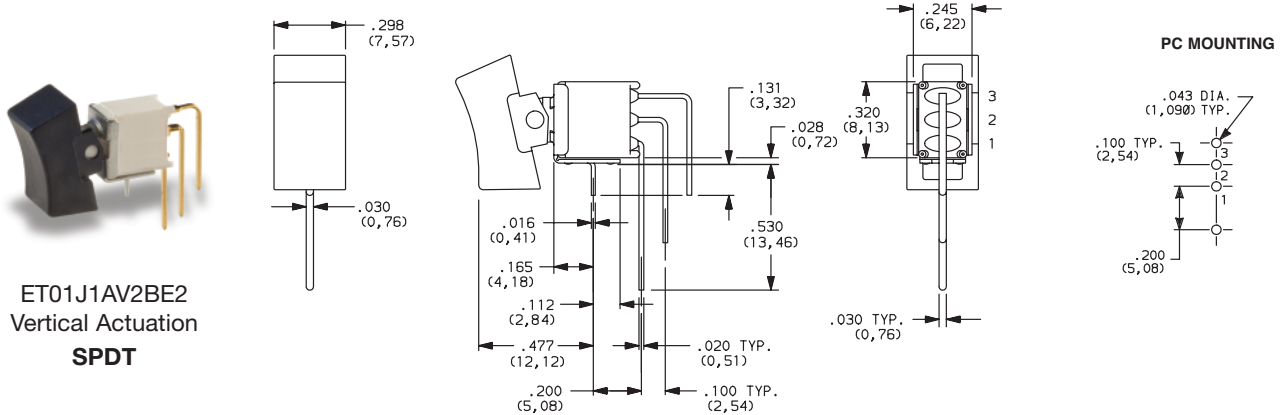
**NOTE:** Terminal bend radii and lead-in manufacturing option.

**AV** VERTICAL RIGHT ANGLE, PC THRU-HOLE

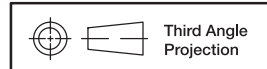


**NOTE:** Terminal bend radii and lead-in manufacturing option.

**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE



Rocker

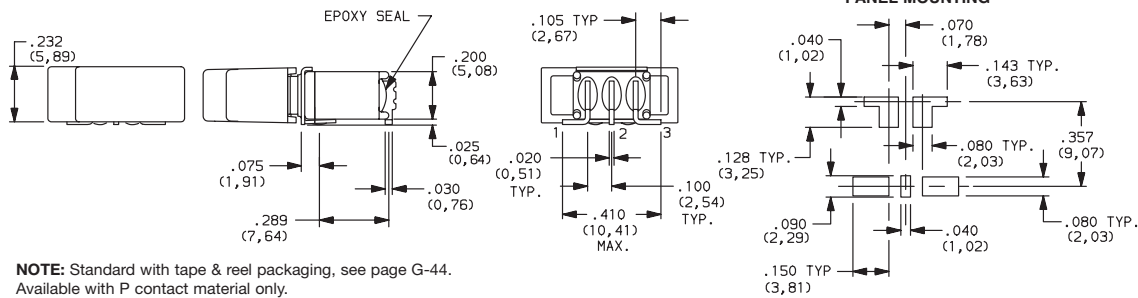


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# ET Series Sealed Subminiature Rocker Switches

## TERMINATIONS

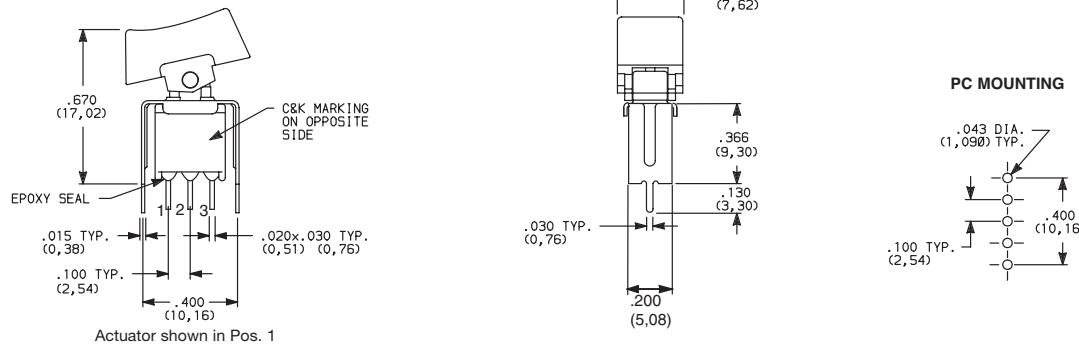
### SA RIGHT ANGLE, SURFACE MOUNT



**NOTE:** Standard with tape & reel packaging, see page G-44. Available with P contact material only.



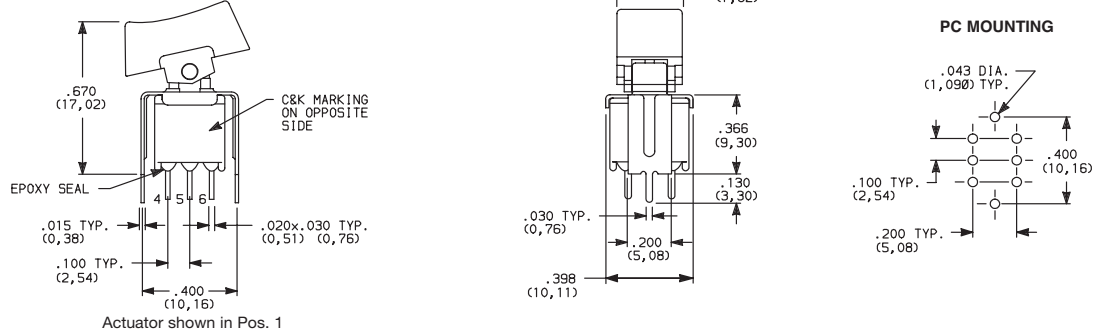
### V3 VERTICAL MOUNT, V-BRACKET



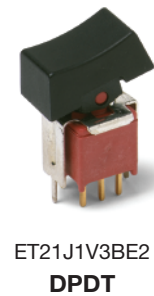
Actuator shown in Pos. 1



### V3 VERTICAL MOUNT, V-BRACKET



Actuator shown in Pos. 1



## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B	GOLD 1	GOLD 1	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	ETX1 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 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	ETX1 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 2 AMPS @ 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.

<sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.

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

<sup>4</sup> END CONTACTS: Coin silver, silver plated.

<sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

<sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

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

All models  with all options when ordered with G, Q, S & R contact material.

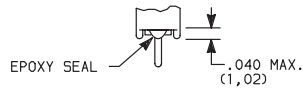
**C&K**



# ET Series Sealed Subminiature Rocker Switches



**E** EPOXY SEAL



## AVAILABLE HARDWARE

J1 Actuator



**PART NO.**  
**261A01000** WHITE  
**261A02263** BLACK  
**261A03000** RED

Material: Nylon  
 Finish: Matte  
 NOT AVAILABLE WITH A, SA, SA1

J6 Actuator



**PART NO.**  
**621C01000** WHITE  
**621C02263** BLACK  
**621C03000** RED

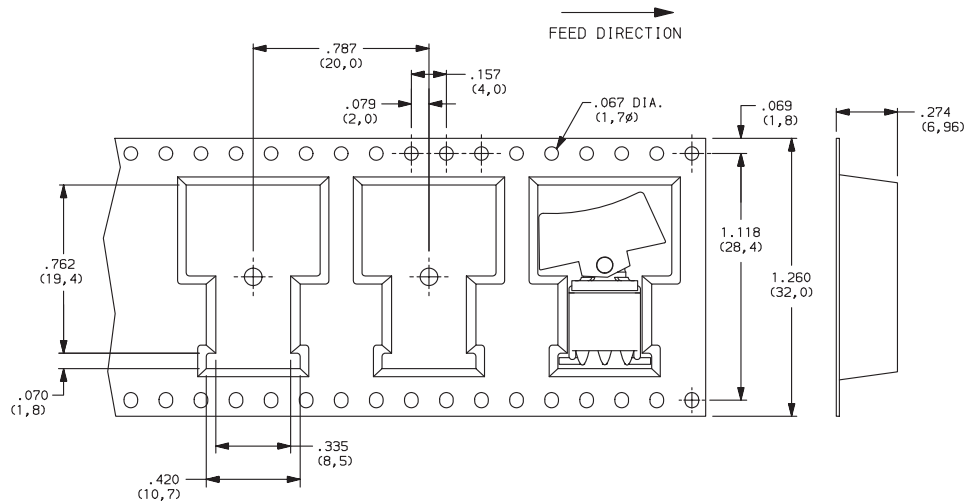
Material: Nylon  
 Finish: Matte  
 For Hi Temp, Consult Factory

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

## TAPE & REEL SA TERMINATION

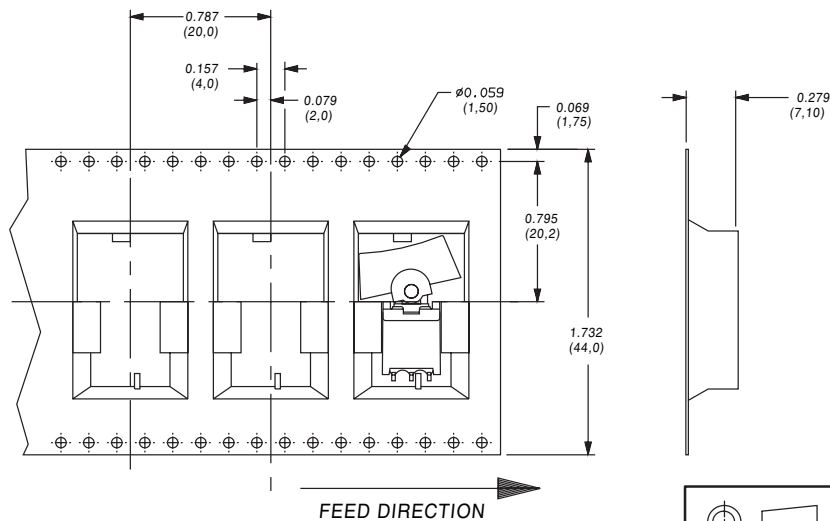
ET01J6SABE (SHOWN)

REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.512 (13,0)
QUANTITY PER REEL	500



ET01J6SA1BE (SHOWN)

REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.795 (20,2)
QUANTITY PER REEL	450



Rocker



G



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

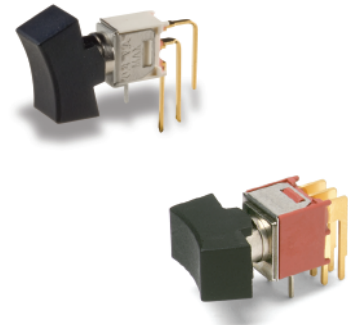
# T Series Subminiature Rocker Switches

## Features/Benefits

- Compact size—small footprint
- Single and double pole models
- PC and panel mounting options available
- RoHS compliant

## Typical Applications

- Telecommunications
- Instrumentation
- Medical Equipment



Models Available

## Specifications

CONTACT RATING: Q contact material (TX01 models): 3 AMPS @ 120 V AC or 28 V DC. All other models: 2 AMPS @ 120 V AC or 28 V DC. See page G-49 for additional ratings.

ELECTRICAL LIFE: TX01 models: 60,000 make-and-break cycles at full load. All other 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: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 1000 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).

**NOTE:** Any models supplied with B, G, P, Q 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.

## Materials

CASE: Glass filled nylon 6/6, flame retardant, heat stabilized or diallyl phthalate (DAP), (UL 94V-0) or glass filled nylon 4/6, flame retardant, heat stabilized.

ACTUATOR: Nylon, black standard.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, matte-tin plated.

MOUNTING BRACKET: Stainless steel.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page G-49 for additional contact materials.

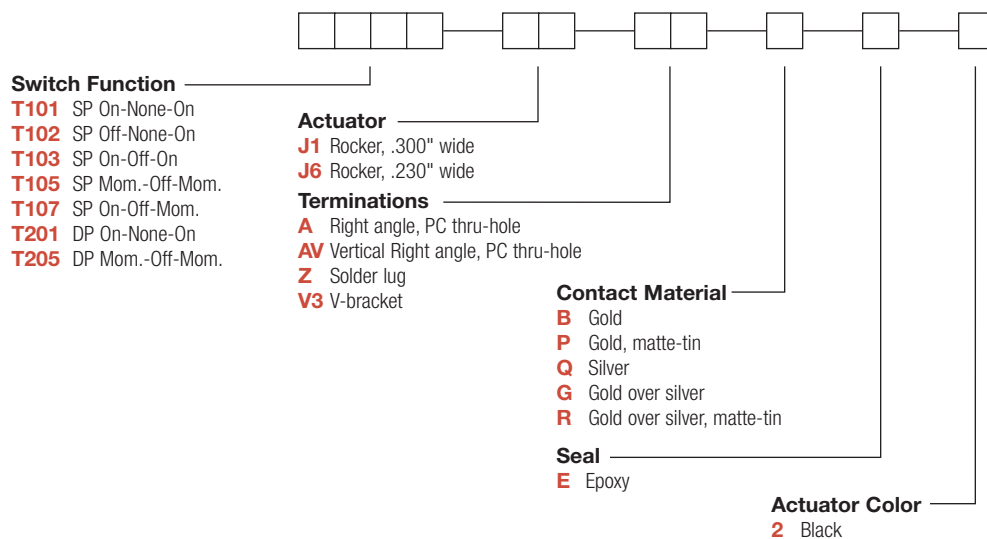
CENTER CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-49 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screws & Lockwasher: Stainless steel. Standoff: Nylon standard.

## 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 G-46 through G-50. 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.



# T Series Subminiature Rocker Switches

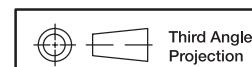
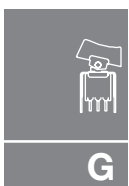
SWITCH FUNCTION  ACTUATOR COLOR

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	<b>T101</b>	ON	NONE	ON	2-3	N/A	2-1	<p>SPDT</p>
	<b>T103</b>	ON	OFF	ON		OPEN		
	<b>T105</b>	MOM.	OFF	MOM.				
	<b>T107</b>	ON	OFF	MOM.				
	<b>T102</b>	OFF	NONE	ON	OPEN	N/A	3-1	<p>SPST</p>
<p><b>SPDT</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> <p>Terminal Nos. For Reference Only</p> </div> <div style="text-align: center;"> <p><b>PANEL MOUNTING</b></p> </div> </div> <p>Part number shown: T101J6ZBE2</p> <p>T102 Models: Omit terminal 2</p>								
DP	<b>T201</b>	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	<p>DPDT</p>
	<b>T205</b>	MOM.	OFF	MOM.				
<p><b>DPDT</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> <p>Terminal Nos. For Reference Only</p> </div> <div style="text-align: center;"> <p><b>PANEL MOUNTING</b></p> </div> </div> <p>Part number shown: T201J1ZBE2</p>								

MOM. = Momentary

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

Rocker

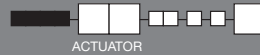


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

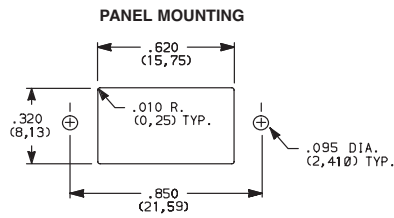
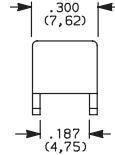
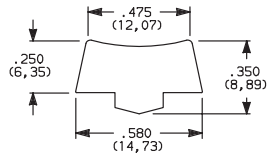
www.ckswitches.com

# T Series Subminiature Rocker Switches

## ACTUATOR



### J1 ROCKER, .300 WIDE

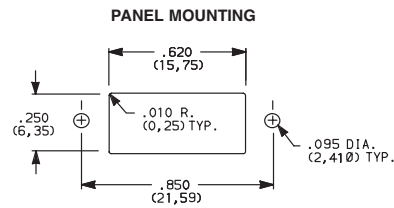
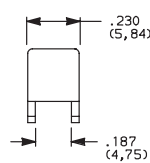
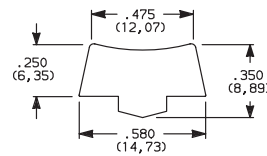


OPTION CODE	ACTUATOR COLOR
2	BLACK

Standard with all models except T10X with A terminations.

Actuators available separately, see page G 50. Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

### J6 ROCKER, .230 WIDE

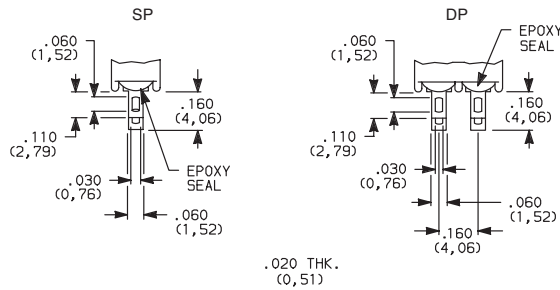


Standard with T10X model with A terminations.

## TERMINATIONS



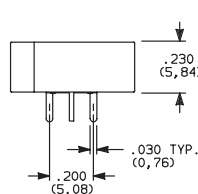
### Z SOLDER LUG



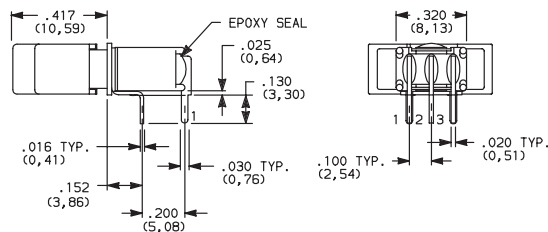
### SP and DP

Not available with P or R contact material.

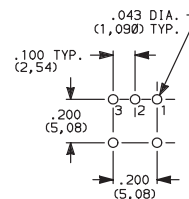
### A RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1



### PC MOUNTING



T101J6ABE2  
Horizontal Actuation  
SPDT

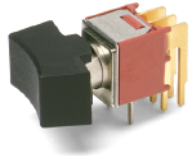
Rocker



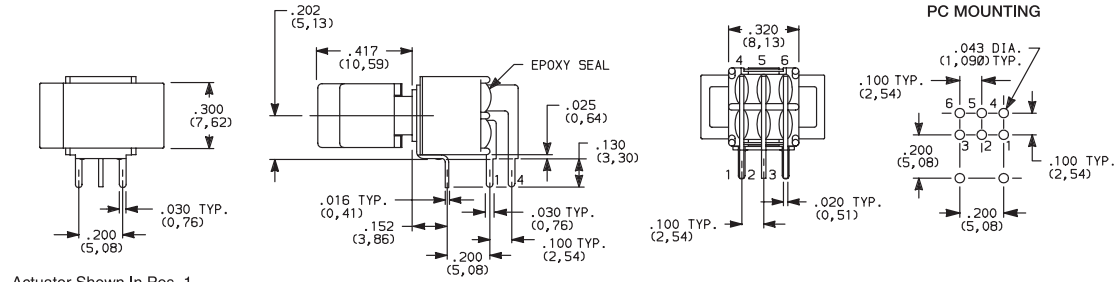
# T Series Subminiature Rocker Switches

## TERMINATIONS

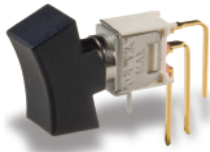
### A RIGHT ANGLE, PC THRU-HOLE



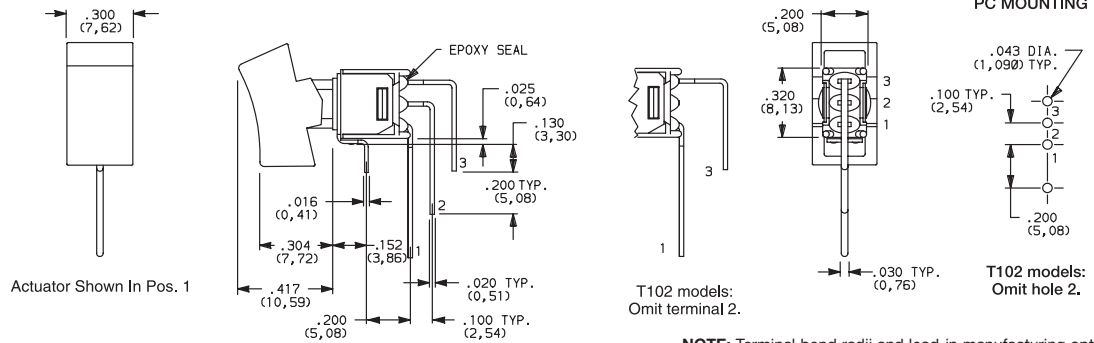
**T201J1ABE2**  
Horizontal Actuation  
**DPDT**



### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE

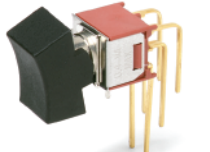


**T101J1AVBE2**  
Vertical Actuation  
**SPDT**

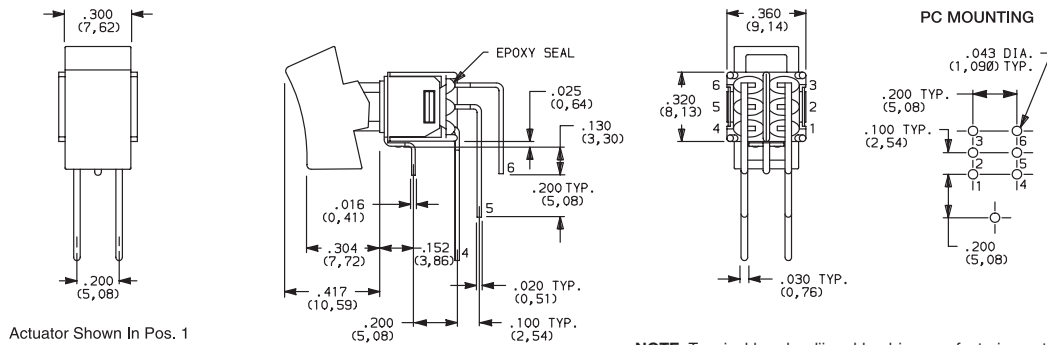


NOTE: Terminal bend radii and lead-in manufacturing option.

### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



**T201J1AVBE2**  
Vertical Actuation  
**DPDT**

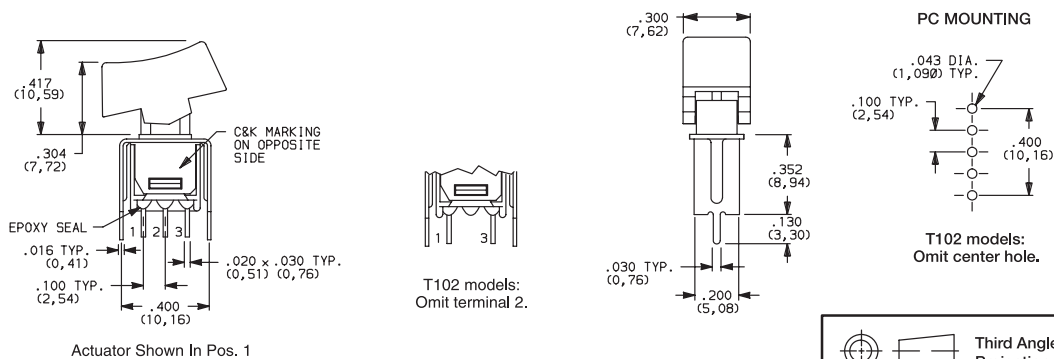


NOTE: Terminal bend radii and lead-in manufacturing option.

### V3 VERTICAL MOUNT, V-BRACKET



**T101J1V3BE2**  
**SPDT**



Rocker



G



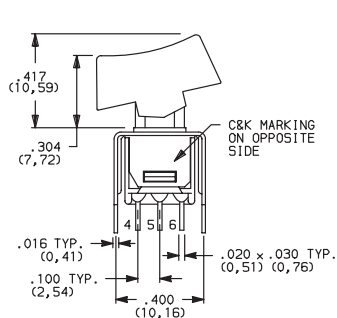
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ckswitches.com

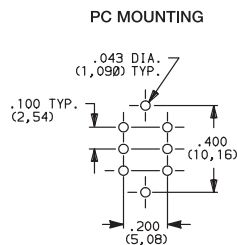
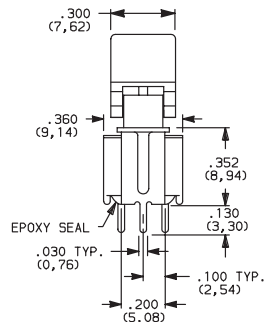
# T Series Subminiature Rocker Switches

## TERMINATIONS

### V3 VERTICAL MOUNT, V-BRACKET



Actuator Shown In Pos. 1



T201J1V3BE2  
DPDT


## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
<b>B</b>	GOLD <sup>3</sup>	GOLD <sup>1</sup>	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
<b>P</b>		MATTE-TIN <sup>6</sup>		
<b>Q</b>	SILVER <sup>4,5</sup>	SILVER <sup>5</sup>	POWER	TX01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.
<b>G</b>	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	TX01 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 2 AMPS @ 120 V AC OR 28 V DC.
<b>R</b>		MATTE-TIN <sup>6</sup>		

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

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

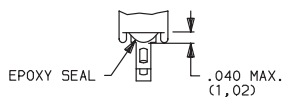
**NOTE:** Any models supplied with B, G, P, Q & R contact material are RoHS compliant.

All models  with all options when ordered with G, Q, or R contact material.  
B contact material standard with A, AV, V3 terminations.  
Q contact material standard with C & Z terminations.

P & R contact materials not available with Z terminations.

## SEAL

### E EPOXY SEAL

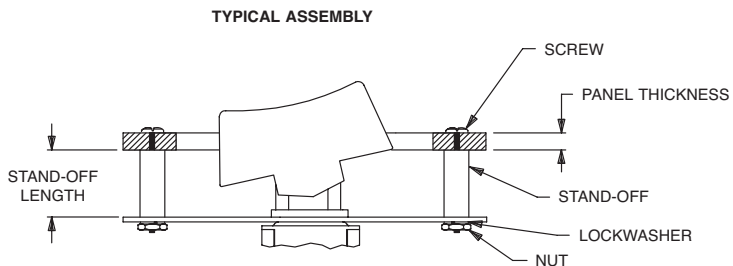




# T Series Subminiature Rocker Switches

## AVAILABLE HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.



PART NO.	PANEL THK.	STANDOFF LENGTH
761101000	1/16 IN. (1,59)	.295 (7,49)
761102000	3/32 IN. (2,38)	.264 (6,71)
761103000	1/8 IN. (3,18)	.233 (5,92)

**NOTE:** Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.

J1 Actuator



PART NO.  
468002263 BLACK

Material: Nylon  
Finish: Matte

J6 Actuator



PART NO.  
468102263 BLACK

Material: Nylon  
Finish: Matte

**NOTE:** Other colors, custom actuator markings and legends available, consult Customer Service Center.

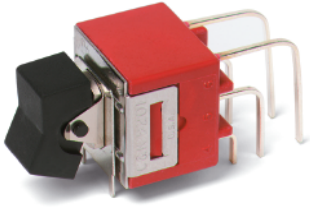
Rocker



Third Angle  
Projection

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

# 9000 Series Power Rocker and Lever Handle Switches



### Features/Benefits

- **Thermoset UL 94V-0 housing**
- **Rugged construction**
- **Variety of actuator and termination options**
- **RoHS compliant**

### Typical Applications

- **Small equipment**
- **Shut-off switch**

UL 61058-1



### Specifications

CONTACT RATING:

9201 Model:

- GP (general purpose)
- 6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3)
- 3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
- R (resistive)
- 6 AMPS 30 VDC T85 10,000 cycles

9221 Model:

- GP (general purpose)
- 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
- 5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
- R (resistive)
- 10 AMPS 30 VDC T85 10,000 cycles

ELECTRICAL LIFE: 25,000 make-and-break cycles at full load.

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

INSULATION RESISTANCE: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 2,500 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: Diallyl phthalate (DAP) (UL 94V-0).

ACTUATOR: Nylon, black standard.

FRAME-REAR MOUNT OPTIONS: Spring steel, black.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

MOUNTING BRACKET: Stainless steel.

END CONTACTS: 9201 Model: Coin silver, silver plated.

9221 Model: Silver cadmium oxide.

CENTER CONTACTS: Copper alloy, silver plated

ALL TERMINALS: 9201 Model: Copper alloy, silver plated.

9221 Model: Copper alloy, matte-tin plated.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screw & Lockwasher: Stainless steel. Standoff: Nylon standard, aluminum available, consult Customer Service Center.

\*Cadmium used in electrical contacts is acceptable for RoHS.

**NOTE:** Any models supplied with Q 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 G-52 through G-55. For additional options not shown in catalog, consult Customer Service Center.



#### Switch Function

- 9201** DP On-On, 6 Amps
- 9221** DP On-On, 10 Amps

#### Actuator

- J1** Rocker
- J2** Lever
- J3** Rocker
- J37** Rocker with metal frame

#### Terminations

- Z** Solder lug (9201 only)
- AV2** Vertical right angle, PC thru-hole (9201 only)
- C** PC Thru-hole (9201 only)
- Z4** Quick connect

#### Contact Material

- Q** Silver

#### Seal

- E** Epoxy
- D** No Seal

#### Actuator Color

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

#### Frame Color

- 2** Black
- NONE** No frame color required



# 9000 Series Power Rocker and Lever Handle Switches

## SWITCH FUNCTION

NO. POLES	MODEL NO.	RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
DP	9201	6 AMPS	ON	ON	2-3,5-6	2-1,5-4	
	9221	10 AMPS	ON	ON			

**DPDT**

Part number shown: 9201J1ZQE2

All 9000 Series models meet international dimensional and electrical requirements.

\* See CONTACT MATERIAL, page G-54, for complete ratings.

9221 model must be ordered with Z4 terminations and D seal option.

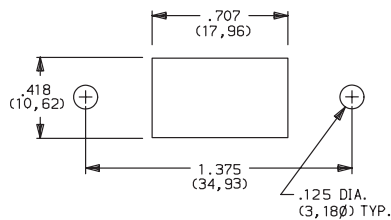
## ACTUATOR-PANEL MOUNT

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

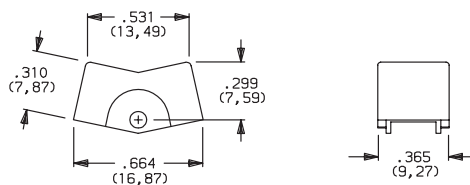
**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Actuators available separately, see page G-55. Hardware available separately, see Technical Data section of this catalog.

### PANEL MOUNTING

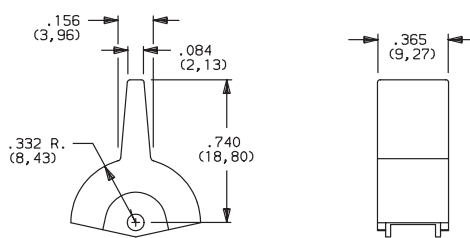


Rocker

### J1 ROCKER



### J2 LEVER



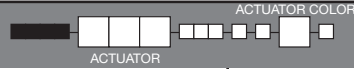
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ckswitches.com

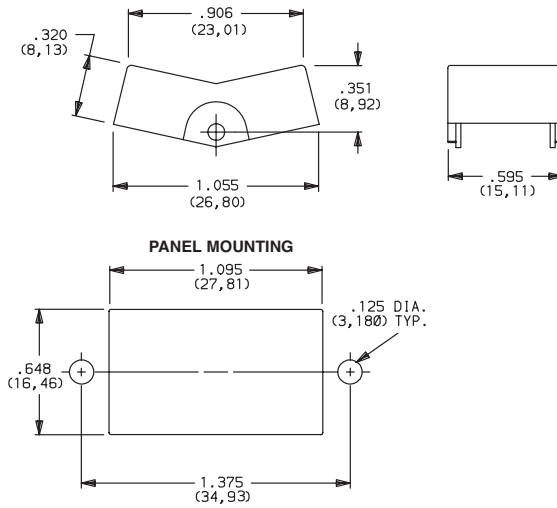


# 9000 Series Power Rocker and Lever Handle Switches

## ACTUATOR-PANEL MOUNT



### J3 ROCKER

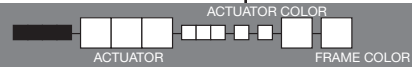


OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

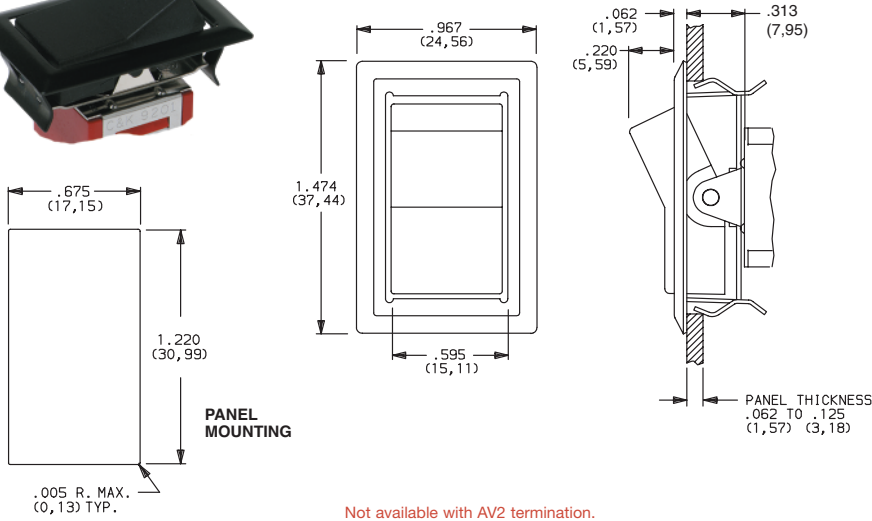
Actuator finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Actuators available separately, see page G-55. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

## ACTUATOR-REAR MOUNT



### J37 ROCKER WITH METAL FRAME



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK

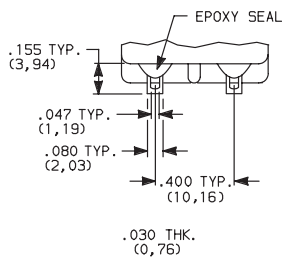
Actuator finish: Matte. Frame finish: Gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Actuators & frames available separately, see page G-55. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

## TERMINATIONS

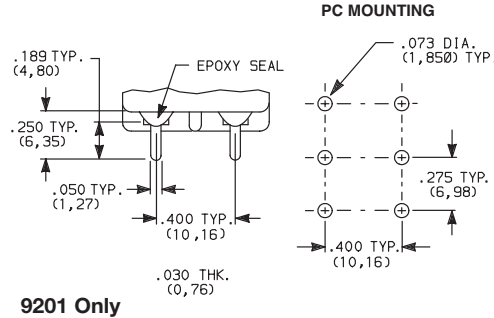


### Z SOLDER LUG



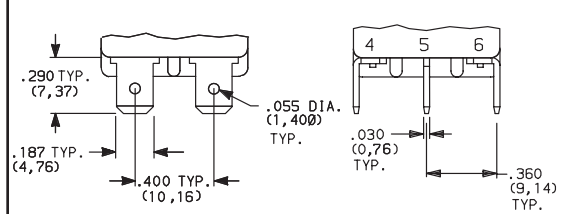
9201 Only

### C PC THRU-HOLE



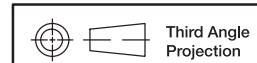
9201 Only

### Z4 QUICK CONNECT



9201 and 9221

**NOTE:** Only termination available with 9221 model. Must be ordered with D seal option. Mating terminal standard Nema .187" quick connect.



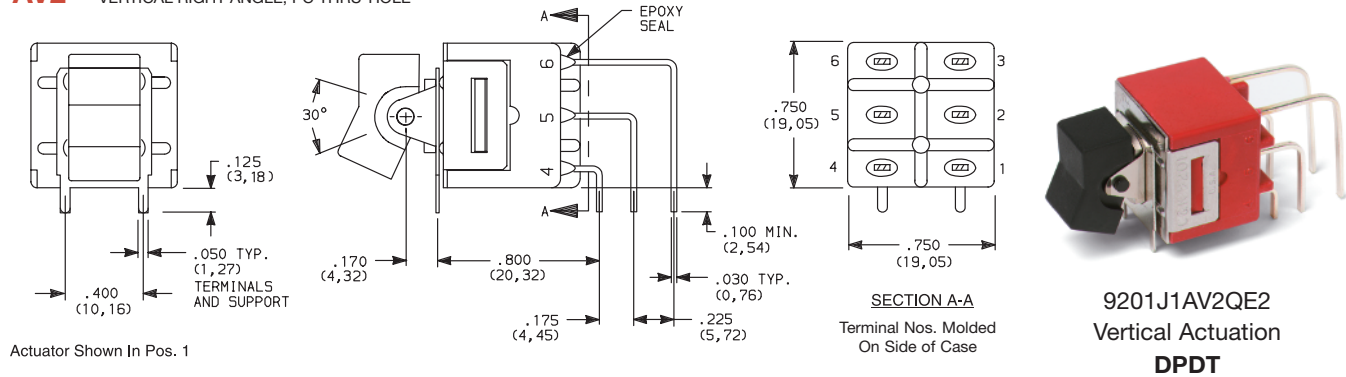
Third Angle Projection



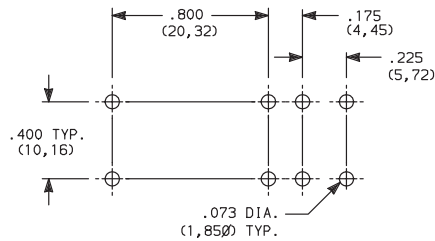
# 9000 Series Power Rocker and Lever Handle Switches

## TERMINATIONS

### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE



### PC MOUNTING



### 9201 Only

**NOTE:** Terminal bend radii and lead-in manufacturing option. Terminal spacing greater than 3mm at all points.

## CONTACT MATERIAL

OPTION CODE	MODEL	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	9201	SILVER 1,2	SILVER OR TIN 2,5	GP (general purpose) 6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3) 3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 6 AMPS 30 VDC T85 10,000 cycles
	9221	SILVER CADMIUM OXIDE 3,4,6	TIN 5	GP (general purpose) 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles 5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 10 AMPS 30 VDC T85 10,000 cycles

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

- 1 END CONTACTS: Coin silver, silver plated.
- 2 CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
- 3 END CONTACTS: Silver cadmium oxide.
- 4 CENTER CONTACTS: Copper alloy, silver plated.
- 5 Z4 TERMINALS ONLY: Copper alloy, tin plated.
- 6 Cadmium used for electrical contacts is acceptable for RoHS.

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

9221 model must be ordered with Z4 terminations and D seal option.

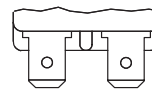
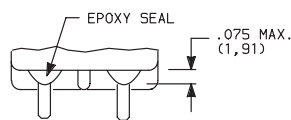
All 9000 Series models meet international dimensional and electrical requirements.



## SEAL

**E** EPOXY SEAL

**D** NO EPOXY SEAL



Not available with 9221 model or Z4 terminations.

Must be ordered with 9221 model and Z4 termination.

Rocker



G

**C&K**

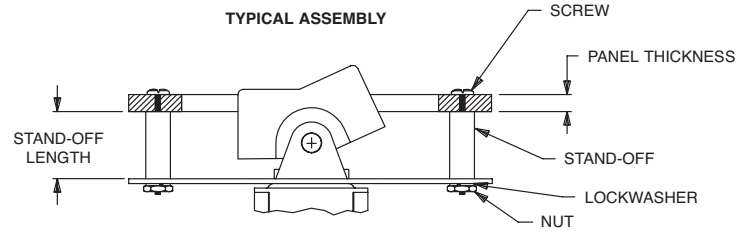


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# 9000 Series Power Rocker and Lever Handle Switches

## AVAILABLE HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.



J1 & J2 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
761101000	1/16 IN. (1,59)	.295 (7,49)
761102000	3/32 IN. (2,38)	.264 (6,71)
761103000	1/8 IN. (3,18)	.233 (5,92)

J1 Actuator



**PART NO.**  
**776A01000** WHITE  
**776A02263** BLACK  
**776A03000** RED

Material: Nylon  
 Finish: Matte

J2 Actuator



**PART NO.**  
**760501000** WHITE  
**760502263** BLACK  
**760503000** RED

Material: Nylon  
 Finish: Matte

J3, J37 Actuators



**PART NO.**  
**766601000** WHITE  
**766602263** BLACK  
**766603000** RED

Material: Nylon  
 Finish: Matte

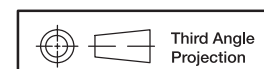
Frame for J37 Actuators



**PART NO.**  
**445400746** BLACK ENAMEL  
 Material: Spring Steel

**NOTE:** Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.

Other colors available, consult Customer Service Center.



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



# DA Series Miniature Single Pole Rocker Switches

## Features/Benefits

- Nice actuator styling with multiple options
- Guards to prevent accidental actuation
- Momentary and maintained functions
- IP65 splash proof rubber boot option
- RoHS compliant

## Typical Applications

- Small appliances
- Computers and peripherals
- Medical instrumentation



**UL** US UL 61058-1

## Specifications

### CONTACT RATING:

- 16 AMPS @ 125 VAC, 1/3 HP;
- 10 AMPS @ 250 VAC, 1/2 HP.
- 10 AMPS @ 125 VAC, 6 AMPS @ 250 VAC.

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

INSULATION RESISTANCE:  $10^8 \Omega$  min.

DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.

OPERATING TEMPERATURE: -20°C to +85°C

## Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.

ILLUMINATED ACTUATOR: Polycarbonate, matte finish.

CENTER CONTACTS: Silver plated, copper alloy.

END CONTACTS: Silver plated.

ALL TERMINALS: Silver plated, copper alloy.

**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 G-57 through G-59. For additional options not shown in catalog, consult Customer Service Center.

<p><b>Switch Function</b></p> <p><b>DA101</b> SPDT On-None-On  <b>DA102</b> SPST On-None-Off  <b>DA103</b> SPDT On-Off-On</p>	<p><b>Actuator</b></p> <p><b>J1</b> Rocker  <b>J2</b> Two-tone rocker  <b>*, **J3</b> Illuminated rocker  <b>**J4</b> Circle, illuminated rocker  <b>**J5</b> Oval, illuminated rocker</p> <p><b>Actuator Color</b></p> <p><b>1-5</b> See Chart on Page G-59  <b>*R</b> Red, illuminated  <b>*A</b> Amber, illuminated  <b>*G</b> Green, illuminated</p>	<p><b>Mounting Style/Color</b></p> <p><b>S2</b> Snap-in, black  <b>S1</b> Snap-in, white  <b>B2</b> Recessed snap-in bracket, black  <b>G2</b> Guard, black</p> <p><b>Termination</b></p> <p><b>15</b> .187" quick connect  <b>17</b> Solder lug  <b>02</b> Thru-hole  <b>A</b> Right angle</p>	<p><b>Actuator Marking</b></p> <p><b>(NONE)</b> No marking  <b>D</b> ON-OFF  <b>H</b> "O I" - international ON-OFF  <b>N</b> Large dot  <b>P</b> "O -" international ON-OFF</p>	<p><b>Contact Rating</b></p> <p><b>QF</b> Silver</p>	<p><b>Lamp Rating</b></p> <p><b>(NONE)</b> No lamp  <b>6</b> LED  <b>7</b> 125 VAC neon  <b>8</b> 250 VAC neon</p>
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\* Actuator "J3" illuminated switches are not available with actuator markings

\*\* Actuator "J3", "J4" and "J5" are not available with Termination option "17" solder lug

Rocker



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

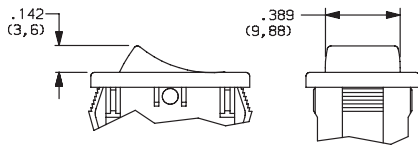
# DA Series Miniature Single Pole Rocker Switches

## SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC	
SP	DA101	ON	NONE	ON	2-3	N/A	2-1		
	DA102	ON	NONE	OFF				OR	
	DA103	ON	OFF	ON				For 7 & 8 Illuminated Versions Only	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Shown in Pos. 1</p> </div> <div style="text-align: center;"> </div> </div>									

## ACTUATOR

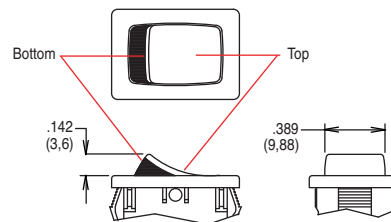
- J1** ROCKER
- \*J3** ILLUMINATED ROCKER



**NOTE:** J3 actuator available with DA102 switch functions, 7&8 lamp ratings and not available with O2 and A termination options.

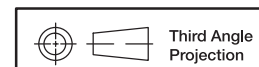
\* J3 actuator not available with markings or Termination option "17" solder lug

- J2** TWO-TONE ROCKER



**NOTE:**

1. Available with DA102 switch function only.
2. Available with None or P actuator marking options only.



Third Angle Projection

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

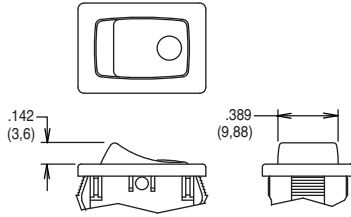




# DA Series Miniature Single Pole Rocker Switches

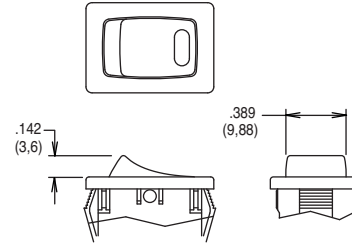
## ACTUATOR

### J4 CIRCLE, ILLUMINATED ROCKER



**NOTE:** Available with DA102 switch function and 7 & 8 lamp ratings combinations only. Not available with O2 and A termination options. \* J4 actuator not available with Termination option "17" solder lug

### J5 OVAL, ILLUMINATED ROCKER

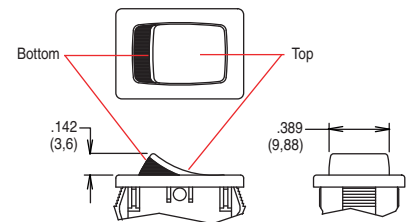


**NOTE:** Available with DA102 switch function and 6 lamp rating combinations only. Not available with O2 and A termination options. \* J5 actuator not available with Termination option "17" solder lug

## ACTUATOR COLOR

ACTUATOR COLOR	OPTION CODE	ACTUATOR COLOR
	<b>J1 only</b>	<b>2</b>
<b>1</b>		WHITE
<b>3</b>		RED
<b>J3, J4, J5 only</b>	<b>R</b>	RED, ILLUMINATED
	<b>A</b>	AMBER, ILLUMINATED
	<b>G</b>	GREEN, ILLUMINATED

ACTUATOR COLOR	OPTION CODE	ACTUATOR COLOR
	TOP	BOTTOM
<b>J2 only</b>	<b>1</b>	WHITE RED
	<b>2</b>	WHITE BLACK
	<b>3</b>	RED WHITE
	<b>4</b>	BLACK WHITE
	<b>5</b>	BLACK RED

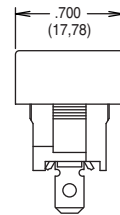
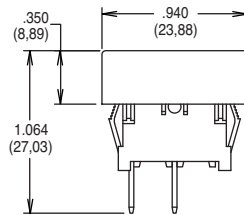
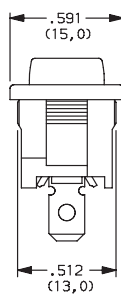
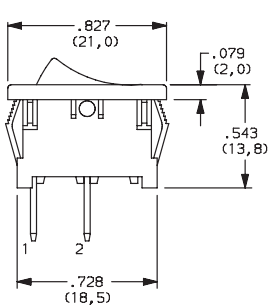


## MOUNTING STYLE/COLOR

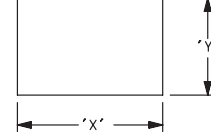
### S2 SNAP-IN, BLACK

### S1 SNAP-IN, WHITE

### G2 GUARD, BLACK



### S2, S1 & G2 PANEL MOUNTING



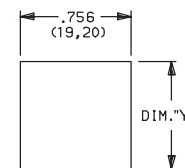
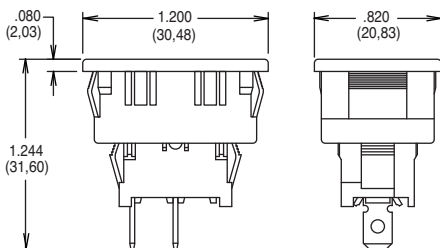
PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	0.756-.004 (19,2-0,1)	0.512+.004 (13,0+0,1)
0.049-0.079 (1,25-2,0)	0.764-.004 (19,4-0,1)	0.512+.004 (13,0+0,1)
0.079-0.118 (2,0-3,0)	0.779-.004 (19,8-0,1)	0.512+.004 (13,0+0,1)

**NOTE:** Available with DA10X switch functions only.

Actuator shown in Pos. 1

### B2 RECESSED SNAP-IN BRACKET, BLACK

### B2 PANEL MOUNTING



PANEL THICKNESS	"Y"
0.030-0.049 (0,75-0,25)	1.068 (27,13)
0.049-0.079 (1,25-2,0)	1.076 (27,33)
0.079-0.118 (2,0-3,0)	1.092 (27,74)

**NOTE:** Available with DA10X switch functions only.

Rocker



G

**C&K**



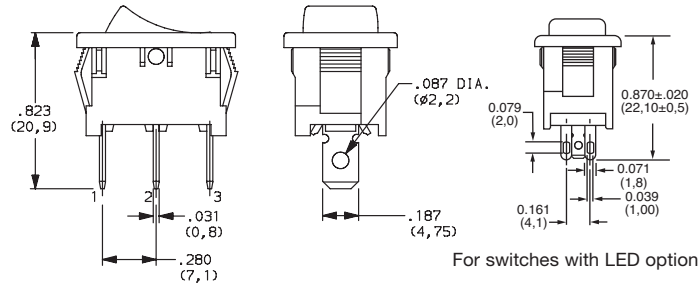
Third Angle Projection

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

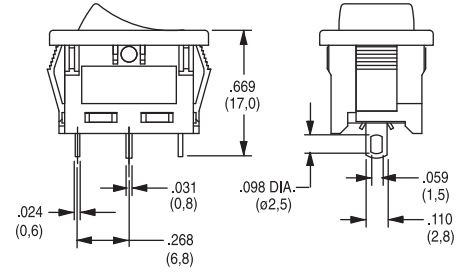
# DA Series Miniature Single Pole Rocker Switches

## TERMINATION

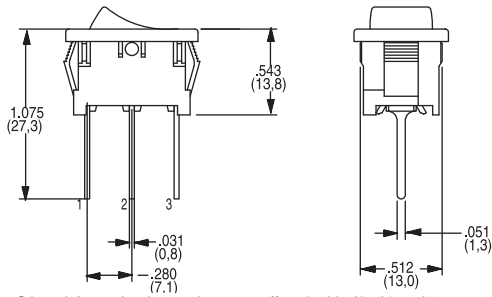
### 15 .187" QUICK CONNECT



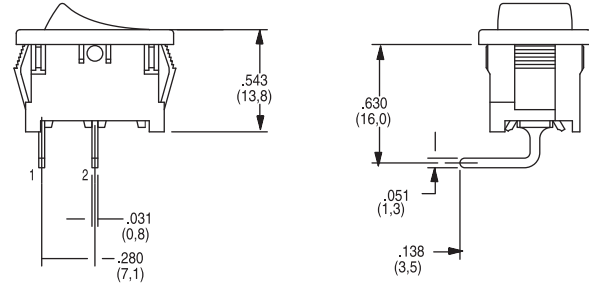
### 17 SOLDER LUG



### 02\* THRU-HOLE



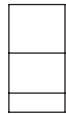
### A\* RIGHT ANGLE



\* NOTE - O2 and A termination options not offered with J3, J4 or J5 actuator options.

## ACTUATOR MARKING

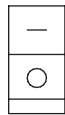
### NONE NO MARKING



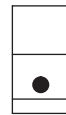
### D ON-OFF



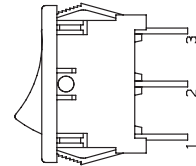
### H O I



### N LARGE DOT



### P O -



All models shown in Pos. 1  
Markings not available with J3 actuator

NOTE: Orientation of actuator marking and terminals.

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
QF	SILVER	POWER	16 AMPS @ 125 VAC; 1/3 HP; 10 AMPS @ 250 VAC; 1/2 10 AMPS @ 125 VAC, 6 AMPS @ 250 VAC

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

## LAMP RATING

(NONE) NO LAMP

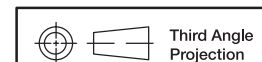
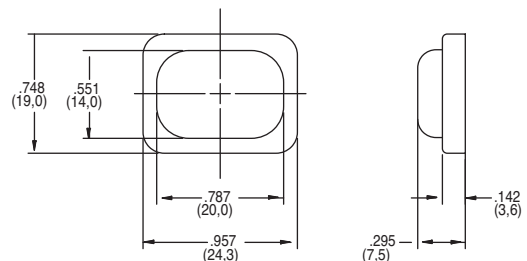
6 LED RATING @ 10 mA  $V_f=1.85V$

7 125 VAC 33kΩ NEON

8 250 VAC 150kΩ NEON

## ACCESSORIES

216C0000 IP65 SPLASH PROOF RUBBER BOOT



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

**C&K**



# D Series Miniature Snap-in Power Rocker Switches

## Features/Benefits

- Momentary and maintained models
- PC and quick connect terminals
- Recessed bracket available — prevents accidental actuation
- RoHS compliant
- Gold plated options available

## Typical Applications

- Small appliances
- Computers and peripherals
- Medical instrumentation



UL 61058-1



## Specifications

CONTACT RATING:

D101, D102, D103, D105, D108, D201, D202, D203

GP (general purpose)

4 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

4 AMPS 30 VDC T85 10,000 cycles

D501, D502, D503, D508, D601, D602, D608

GP (general purpose)

10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

10 AMPS 30 VDC T85 10,000 cycles

0.4VA @ 20V AC/DC (gold plating) available upon request

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.

## Materials

ACTUATOR & HOUSING: 6/6 nylon (UL 94V-2), color black, finish: matte.

MOVABLE CONTACTS: D10X and D20X Models: Copper, silver plated. D50X and D60X Models: Coin silver, silver plated.

STATIONARY CONTACTS AND TERMINALS: Copper or brass, silver plated. Gold plating available.

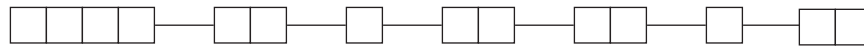
CONTACT SPRING: Music wire or stainless steel.

OPERATING TEMPERATURE: -30°C to +65°C

**NOTE:** Specifications and materials listed above are for standard switches. 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 G-61 through G-64. For additional options not shown in catalog, consult Customer Service Center.



### Switch Function

- D101** SPDT, On-None-On
- D102** SPST, On-None-Off
- D103** SPDT, On-Off-On
- D105** SPDT, Mom.-Off-Mom.
- D108** SPDT, Mom.-None-On
- D201** DPDT, On-None-On
- D202** DPST, On-None-Off
- D203** DPDT, On-Off-On
- D501** SPDT, On-None-On
- D502** SPST, On-None-Off
- D503** SPDT, On-Off-On
- D508** SPDT, Mom.-None-On
- D601** DPDT, On-None-On
- D602** DPST, On-None-Off
- D608** DPDT, Mom.-None-On

### Actuator

- J1** Rocker
- J5** Lever

### Actuator Color

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

### Mounting Style/Color

- S2** Snap-in, black
- B2** Recessed snap-in actuator guard, black
- G2** Actuator guard, black
- S1** Snap-in, white

### Terminations

- 15** Quick connect
- A** Right angle, PC thru-hole
- 02** PC Thru-hole
- 05** Twisted quick connect
- 06** Extended PC thru-hole
- 17** Wirable quick connect

### Actuator Markings

- NONE** No marking
- D** ON-OFF
- H** 0 I
- N** Large dot
- P** 0 -
- R** Red rectangle on end
- U** Large dot on end

### Contact Material

- QA** Silver
- Gold plating options available contact Customer Service

Rocker



**C&K**

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

# D Series Miniature Snap-in Power Rocker Switches

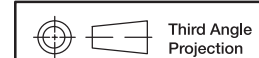
## SWITCH FUNCTION

NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC					
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3						
SP	D102	4	ON	NONE	OFF	1-1A	N/A	OPEN	SPST					
	D502	10												
	D101	4	ON	NONE	ON			1-1A	OPEN	1-1B	SPDT			
	D501	10		OFF										
	D103	4												
	D503	10												
D105	4	MOM.	OFF	MOM.										
D108	4	MOM.	NONE	ON										
	D508	10												
<p><b>SPDT</b></p> <p>ACTUATOR SHOWN IN POSITION 1</p> <p>Part number shown: D101J12S215QA</p> <p>TERMINAL NOS. FOR REF. ONLY</p>														
DP	D202	4	ON	NONE	OFF	1-1A, 2-2A	N/A	OPEN	DPST					
	D602	10												
	D201	4	ON	NONE	ON			1-1A, 2-2A	OPEN	1-1B, 2-2B	DPDT			
	D601	10		OFF										
	D203	4												
D608	10	MOM.	NONE											
<p><b>DPDT</b></p> <p>ACTUATOR SHOWN IN POSITION 1</p> <p>Part number shown: D201J12S215QA</p> <p>TERMINAL NOS. FOR REF. ONLY</p>														

MOM. = Momentary

\*AMP RATING: see G-60

See CONTACT MATERIALS, page G-64.



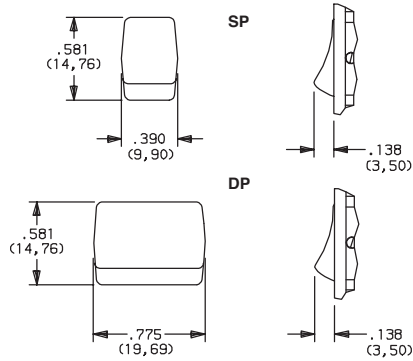
Third Angle Projection  
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



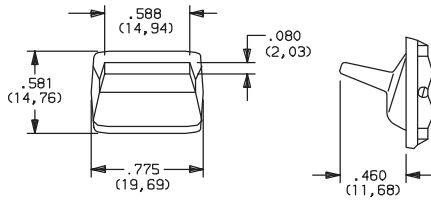
# D Series Miniature Snap-in Power Rocker Switches



## J1 ROCKER



## J5 LEVER



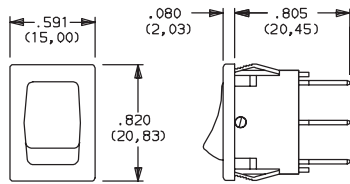
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

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

'J5' actuator available only with DP models D201, D202, D601 and D602.



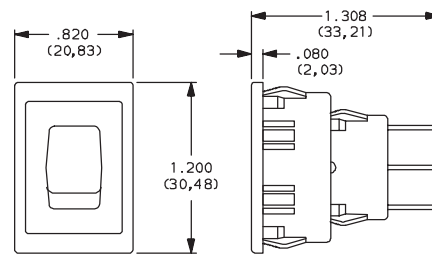
## S SNAP-IN



OPTION CODE	HOUSING COLOR
2	(STD.) BLACK
1	WHITE

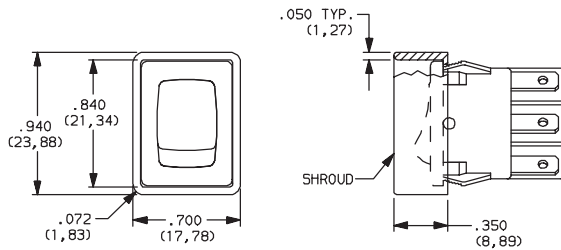
**NOTE:** Frame finish on housing: matte. Other colors available, consult Customer Service Center.

## B2 RECESSED SNAP-IN ACTUATOR GUARD, BLACK



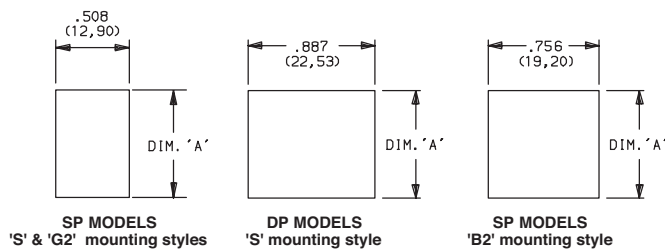
**NOTE:** Vertical mount, SP models only.

## G2 ACTUATOR GUARD, BLACK



**NOTE:** Vertical mount, SP models only.

## PANEL MOUNTING



PANEL THICKNESS	DIM 'A' SP & DP MODELS 'S' MOUNTING STYLE	DIM 'A' WITH 'G2' OPTION SP MODELS ONLY	DIM 'A' SP MODELS 'B' MOUNTING STYLE
.030-.049 (0,76) (1,24)	.756 (19,20)	.764 (19,41)	1.068 (27,13)
.049-.079 (1,24) (2,01)	.764 (19,41)	.780 (19,81)	1.076 (27,33)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a	1.092 (27,74)

**NOTE:** Blank insert available for SP models only, see page G-64.

Rocker



G

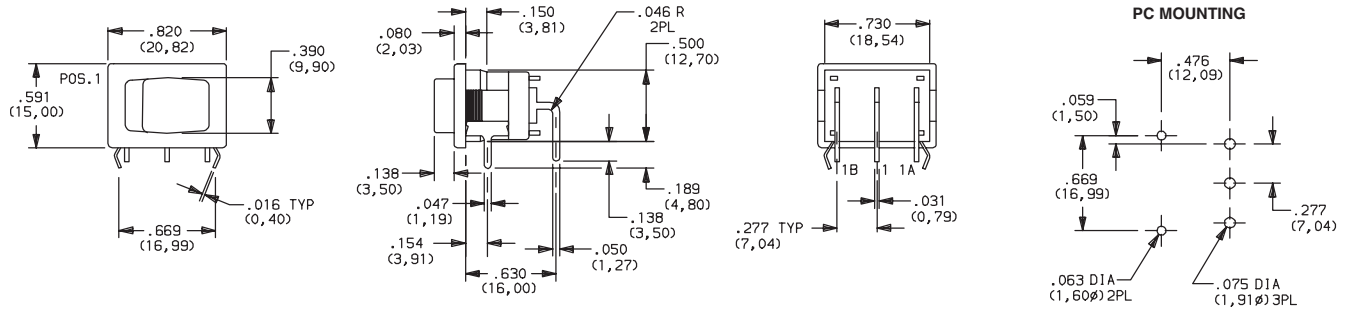


Third Angle Projection  
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# D Series Miniature Snap-in Power Rocker Switches

## TERMINATIONS

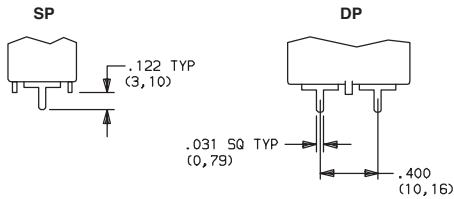
### A RIGHT ANGLE, PC THRU-HOLE



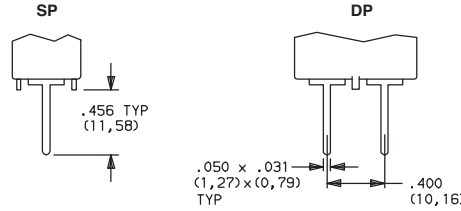
Available with D101, D102, D501, D502 SP models only.

## TERMINATIONS

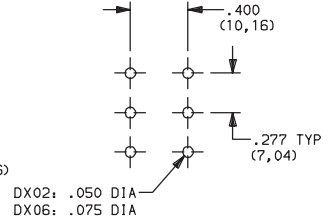
### 02 PC THRU-HOLE



### 06 EXTENDED PC THRU-HOLE



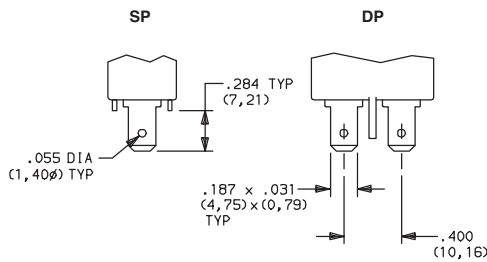
### PC MOUNTING (02 and 06)



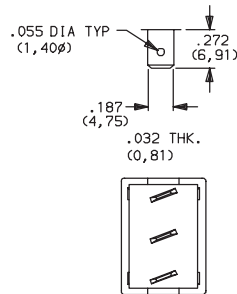
Available with DX01 and DX02 models only.

Available with DX01 and DX02 models only.

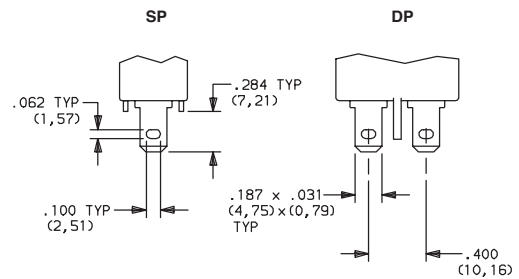
### 15 QUICK CONNECT



### 05 TWISTED QUICK CONNECT



### 17 WIRABLE QUICK CONNECT



Available with DX01 and DX02 models only.

**NOTE:** Terminals are twisted.

Available with DX01 and DX02 models only.

## ACTUATORS

**NONE** NO MARKING

**D** ON-OFF

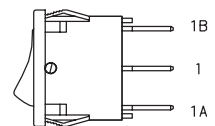
**H** O |

**N** LARGE DOT

**P** O -

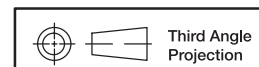
**R** RED RECTANGLE  
ON END

**U** LARGE DOT ON END



'D, H, P & U' marking options: marking color white, standard for all actuator colors except white. Black marking color, standard for white actuators. 'R & N' marking option: red marking color, standard. Consult Customer Service Center for other available marking colors.

**NOTE:** Orientation of actuator markings and terminals.



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



# D Series Miniature Snap-in Power Rocker Switches

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS
QA	SILVER 1	D101, D102, D103, D105, D108, D201, D202, D203
		GP (general purpose) 4 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
		2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		R (resistive) 4 AMPS 30 VDC T85 10,000 cycles
		D501, D502, D503, D508, D601, D602, D608
		GP (general purpose) 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
		5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		R (resistive) 10 AMPS 30 VDC T85 10,000 cycles

<sup>1</sup>MOVABLE CONTACT: D10X and D20X MODELS: Copper, silver plated.  
D50X and D60X MODELS: Coin silver, silver plated.

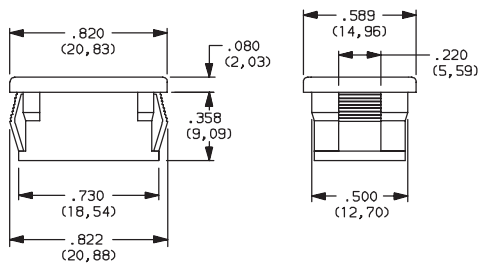


0.4VA @ 20V AC/DC Gold plated options available contact Customer Service.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

## AVAILABLE HARDWARE

Insert  
SP Only



PART NO.

**057190200** BLACK

Material: Nylon 6/6  
Finish: Matte

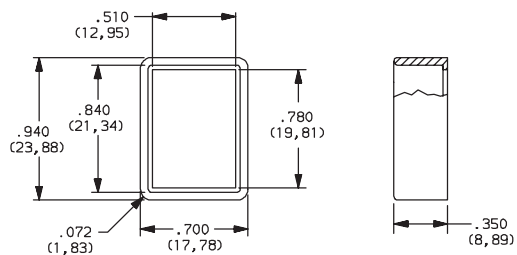
Recessed Actuator Guard,  
SP Only



**599D02000** BLACK

Material: 6/6 Nylon  
Finish: Matte

Actuator Guard



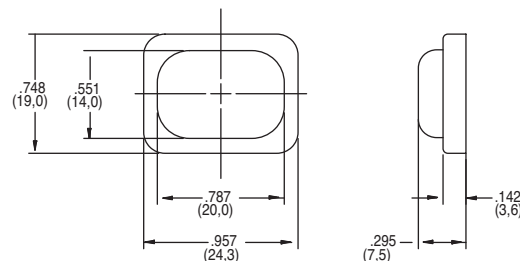
PART NO.

**104C22000**

Material: PBT thermoplastic  
Finish: Matte

PART NO.

**216C00000** IP65 SPLASH PROOF RUBBER BOOT



Rocker



G

**C&K**



Third Angle  
Projection

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

# DM Series Miniature 2 Pole Power Rocker Switches



### Features/Benefits

- 3 AMPS to 10 AMPS
- Quick connect terminals
- Double pole in miniature size
- Recessed bracket available—prevents accidental actuation
- RoHS compliant

### Typical Applications

- Computers
- Appliances
- Electric tools

UL 61058-1



### Specifications

CONTACT RATING:

DM21, DM22:

GP (general purpose)

3 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

3 AMPS 30 VDC T85 10,000 cycles

DM61, DM62:

GP (general purpose)

10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

10 AMPS 30 VDC T85 10,000 cycles

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.

OPERATING TEMPERATURE: -20°C to +65°C

### Materials

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

MOVABLE CONTACTS: DM2X Models: Copper, silver plated.

DM6X Models: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

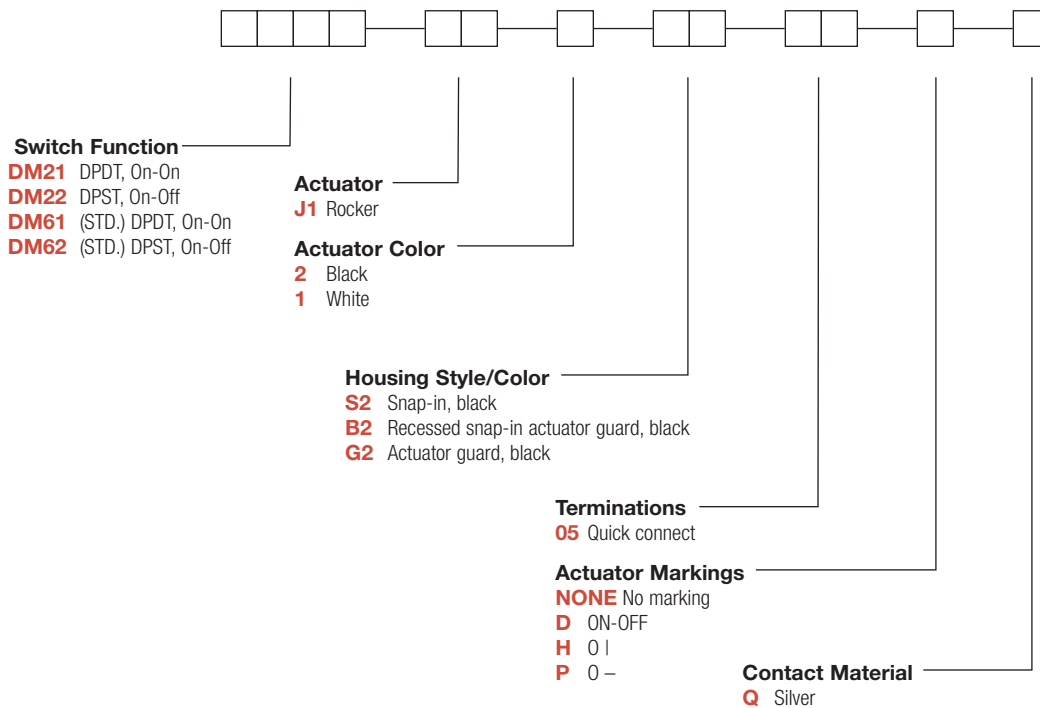
CONTACT SPRING: Music wire or stainless steel.

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

**NOTE:** Specifications and materials listed above are for standard switches. 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 G-66 and G-68. For additional options not shown in catalog, consult Customer Service Center.



2 aug 16





# DM Series Miniature 2 Pole Power Rocker Switches

## SWITCH FUNCTION

NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
DP	<b>DM22</b>	3	ON	OFF	1-1A, 2-2A	OPEN	
	<b>DM62</b>	10	ON	OFF	1-1A, 2-2A	OPEN	
DP	<b>DM21</b>	3	ON	ON	1-1A, 2-2A	1-1B, 2-2B	
	<b>DM61</b>	10	ON	ON	1-1A, 2-2A	1-1B, 2-2B	

**DPDT**

PART NUMBER SHOWN: DM21J1XS205Q

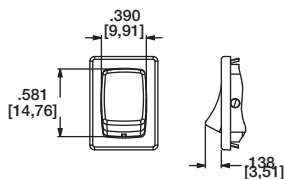
NOTES 1. ACTUATOR SHOWN IN POSITION 1-'ON' POSITION

RATINGS: See page G-65 for complete ratings.

UL 15 UL 61058-1 tested to 30C temperature rise @ 6,000 cycles.

## ACTUATOR

**J1** ROCKER

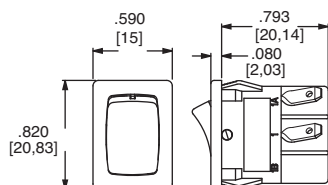


OPTION CODE	ACTUATOR COLOR
<b>2</b>	BLACK
<b>1</b>	WHITE

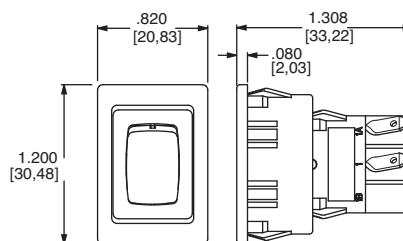
**NOTE:** Actuator finish: matte. Other colors available, consult Customer Service Center.

## HOUSING STYLE/COLOR

**S2** SNAP-IN, BLACK



**B2** RECESSED SNAP-IN ACTUATOR GUARD, BLACK



Rocker

**NOTE:** Housing finish: matte. Other colors available, consult Customer Service Center.



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



**G**

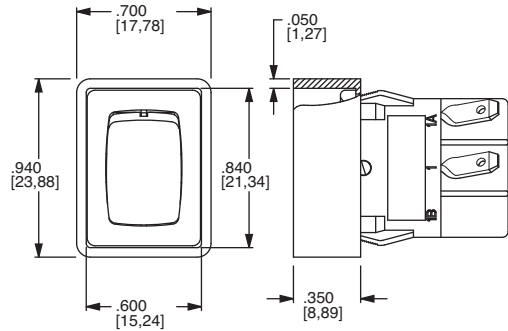
**C&K**

2 aug 16

# DM Series Miniature 2 Pole Power Rocker Switches

## HOUSING STYLE/COLOR

**G2** ACTUATOR GUARD, BLACK



### PANEL MOUNTING



'S2' & 'G2' housing styles

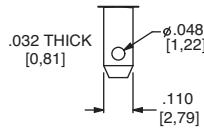
'B2' housing style

NOTE: Blank insert available for SP models only, see page H-76.

PANEL THICKNESS	DIM 'A' 'S2' & 'G2' HOUSING STYLES	DIM 'A' 'G2' OPTION SP MODELS ONLY	DIM 'A' 'B2' HOUSING STYLES
.030-.049 (0,76) (1,24)	.756 (19,20)	0.764 (19,41)	1.068 (27,13)
.049-.079 (1,24) (2,01)	.764 (19,41)	0.780 (19,81)	1.076 (27,33)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a	1.092 (27,74)

## TERMINATIONS

**05** QUICK CONNECT



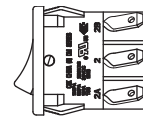
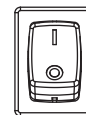
## ACTUATOR MARKINGS

**NONE** NO MARKING

**D** ON-OFF

**H** O I

**P** O -



NOTE: Orientation of actuator markings and terminals.

'D & P' marking options: marking color white, standard for all actuator colors except white actuators. Black marking color standard for white actuators. Consult Customer Service Center for other available marking colors.

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS		
<b>Q</b>	SILVER 1,2	DM21, DM22:	GP (general purpose)	3 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
			R (resistive)	2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		DM61, DM62:	GP (general purpose)	10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
			R (resistive)	5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
			10 AMPS 30 VDC T85 10,000 cycles	

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

1 MOVABLE CONTACT: DM2X Models: Copper, silver plated.  
DM6X Models: Coin silver, silver plated.

2 STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

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



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



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Rocker

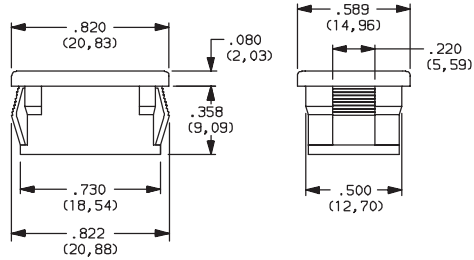


G

# DM Series Miniature 2 Pole Power Rocker Switches

## AVAILABLE HARDWARE

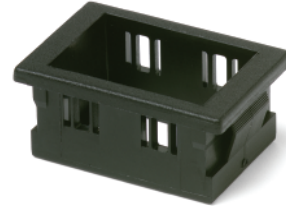
Insert



**PART NO.**  
**057190200**

Material: Nylon 6/6  
Finish: Matte

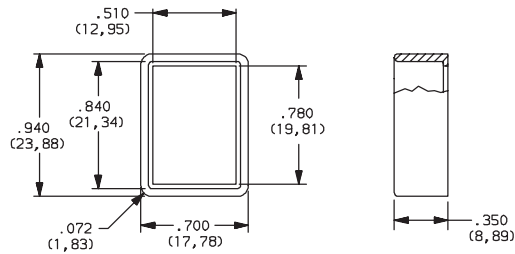
Recessed Actuator Guard



**PART NO.**  
**599D02000**

Material: 6/6 Nylon  
Finish: Matte

Actuator Guard

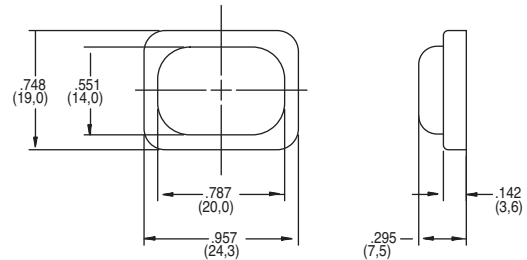


**PART NO.**  
**104C22000**

Material: PBT thermoplastic  
Finish: Matte

**PART NO.**

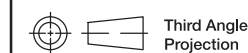
**216C00000** IP65 SPLASH PROOF RUBBER BOOT



Rocker



2 aug 16



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

# DM Series Miniature Illuminated Power Rocker Switches



## Features/Benefits

- 3 AMPS to 10 AMPS
- Illuminated LED
- Positive detent
- RoHS compliant

## Typical Applications

- Instrumentation
- Industrial
- Office machines



## Specifications

CONTACT RATING: DM14 and DM24 Models: 3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC. DM54 and DM64 Models: 10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC (UL).

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.

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

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

## Materials

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

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

MOVABLE CONTACTS: DM14 and DM24 Models: Copper, silver plated. DM54 and DM64 Models: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

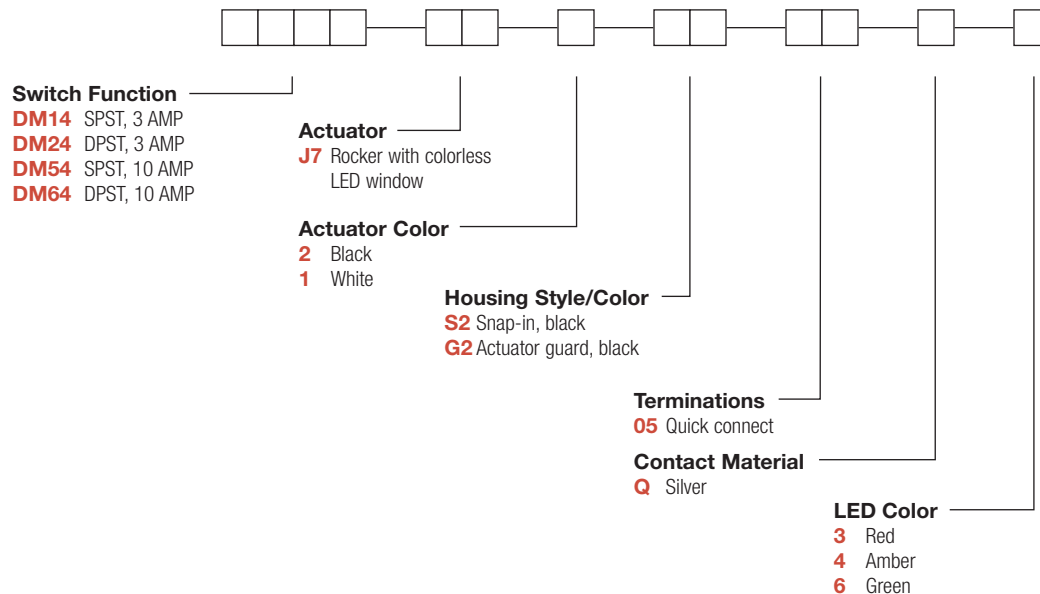
LED TERMINALS: Brass, unplated.

CONTACT SPRING: Music wire or stainless steel.

OPERATING TEMPERATURE: -20°C to +65°C

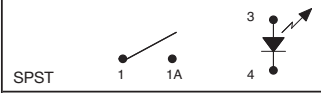
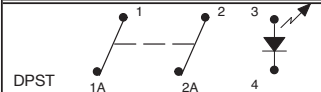
## Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-70 and G-72. For additional options not shown in catalog, consult Customer Service Center.



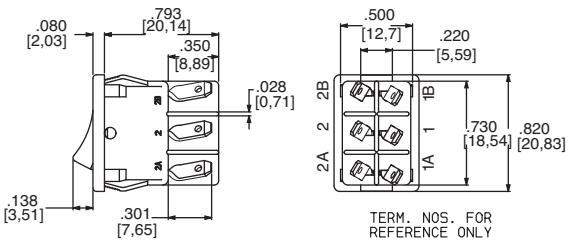
# DM Series Miniature Illuminated Power Rocker Switches

## SWITCH FUNCTION

NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
SP	<b>DM14</b>	3	ON	OFF	1-1A	OPEN	
	<b>DM54</b>	10					
DP	<b>DM24</b>	3	ON	OFF	1-1A, 2-2A	OPEN	
	<b>DM64</b>	10					

**DPDT**



Actuator shown in pos. 1 – 'ON' position.  
SPST MODELS (DM14 & DM54) OMIT TERMINALS 2 & 2A.

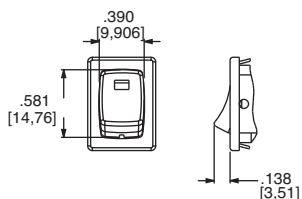
Part number shown: DM24J72S205Q3

\* RATINGS: see page G-69.



## ACTUATOR

**J7** ROCKER WITH COLORLESS LED WINDOW

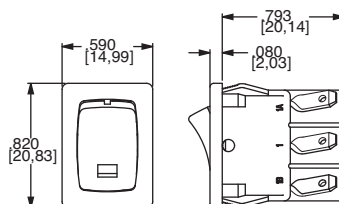


OPTION CODE	ACTUATOR COLOR
<b>2</b>	BLACK
<b>1</b>	WHITE

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

## HOUSING STYLE/COLOR

**S2** SNAP-IN, BLACK



**NOTE:** Housing finish: matte. Other colors available, consult Customer Service Center.

Rocker



G

**C&K**

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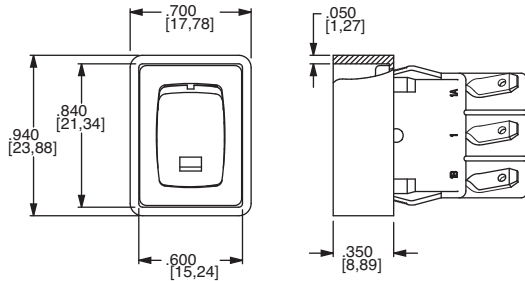


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

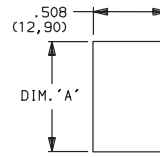
# DM Series Miniature Illuminated Power Rocker Switches

## HOUSING STYLE/COLOR

**G2** ACTUATOR GUARD, BLACK



### PANEL MOUNTING



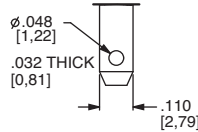
'S2' & 'G2' housing style

NOTE: Blank insert available for SP models only, see page H-80.

PANEL THICKNESS	DIM 'A' 'S2' & 'G2' HOUSING STYLES	DIM 'A' with 'G2' option SP MODELS ONLY
.030-.049 (0,76) (1,24)	0.756 (19,20)	0.764 (19,41)
.049-.079 (1,24) (2,01)	0.764 (19,41)	0.780 (19,81)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a

## TERMINATIONS

**05** QUICK CONNECT



## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		POWER	DM14 and DM24 Models: 3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC. DM54 and DM64 Models: 10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC.

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

<sup>1</sup> MOVABLE CONTACTS: DM14 and DM24 models: Copper, silver plated.  
DM54 and DM64 models: Coin silver, silver plated.

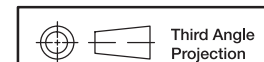
<sup>2</sup> STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

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



## LED COLOR

OPTION CODE	LED COLOR	FORWARD V <sub>FD</sub>	CURRENT I <sub>LED</sub>	REVERSE V <sub>R</sub>	INTENSITY M <sub>CD</sub>	RECOMMENDED RESISTOR @ VOLTAGE		
						5V	12V	24V
<b>3</b>	Red	2.1	10	4V	1.6 typ.	270	1K	2.2K
<b>4</b>	Amber	2.2	20	4V	2.5 typ.	150	510	1.2K
<b>6</b>	Green	2.1	20	4V	2.0 typ.	150	510	1.2K



Third Angle Projection

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



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Rocker

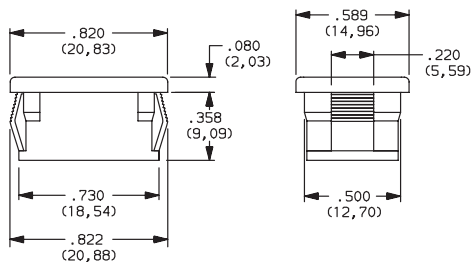


G

# DM Series Miniature Illuminated Power Rocker Switches

## AVAILABLE HARDWARE

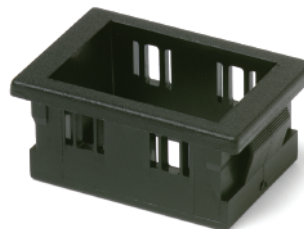
Blank Insert



**PART NO.**  
**057190200**

Material: Zinc nylon 6/6  
Finish: Matte

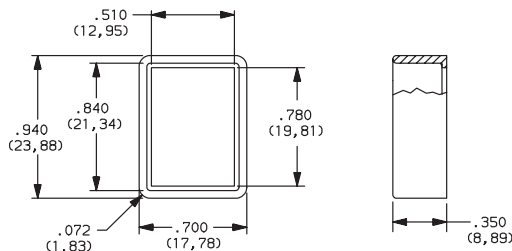
Recessed Bracket



**PART NO.**  
**599D02000**

Material: 6/6 Nylon  
Finish: Matte

Actuator Guard



**PART NO.**  
**104C22000**

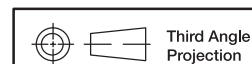
Material: PBT thermoplastic  
Finish: Matte

Rocker



**C&K**

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

# DF Series Power Rocker Switches



## Features/Benefits

- Power switching up to 16 AMPS
- Sub-panel and Front-panel mounting
- PC and quick connect terminals
- Multi-position and multi-pole function
- RoHS compliant

## Typical Applications

- Computers
- Power supplies
- Appliances
- Fitness equipment
- Off-road vehicles



## Specifications

CONTACT RATING: 16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC; 6 AMPS @ 48 V DC, 2 AMPS @ 60 V DC, 11 AMPS @ 30 V DC

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.

OPERATING TEMPERATURE: -20°C to +85°C

## Materials

HOUSING & ACTUATOR: 6/6 nylon (UL 94V-2), black, finish: matte.

CONTACTS: Fine silver, silver plated.

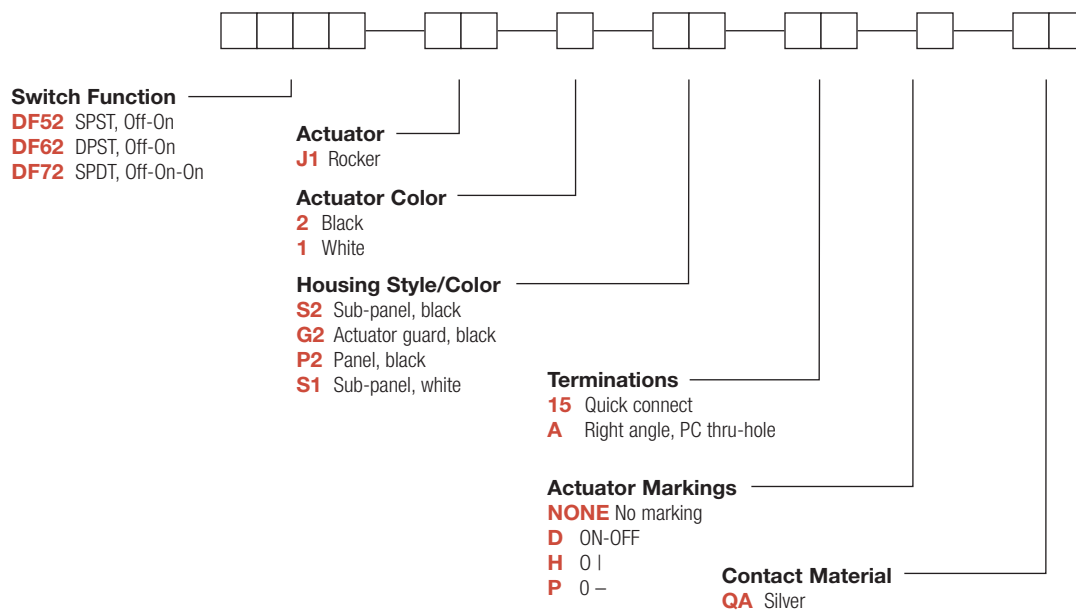
TERMINALS: Copper, silver plated.

CONTACT SPRING: Music wire or stainless steel.

**NOTE:** Specifications and materials listed above are for standard switches. 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 G-74 thru G-76. For additional options not shown in catalog, consult Customer Service Center.



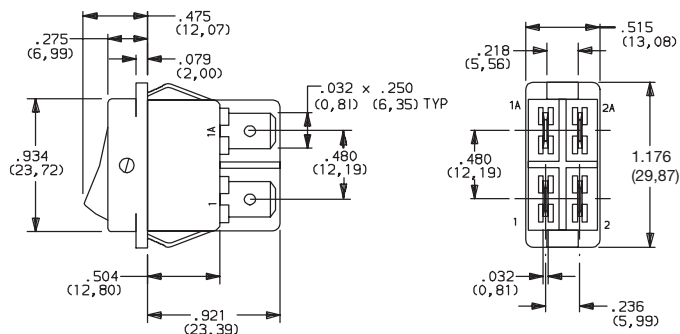


# DF Series Power Rocker Switches

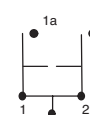
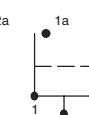
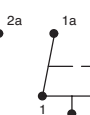
## SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	<b>DF52</b>	OFF	ON	OPEN	1-1A	SPST 
DP	<b>DF62</b>	OFF	ON	OPEN	1-1A, 2-2A	DPST 

Part Number shown DF62J12S215QA



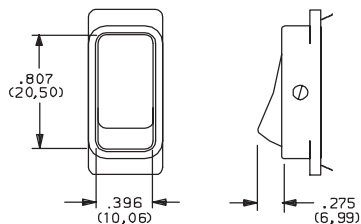
Actuator shown in Pos. 1

NO. POLES	MODEL NO.	POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	SCHEMATIC
SP	<b>DF72</b>	OFF	ON	ON	OPEN	1 / 2-A	1 / 2-1A 1 / 2-2A	  

All models  US

## ACTUATOR

**J1** ROCKER



OPTION CODE	ACTUATOR COLOR
<b>2</b>	BLACK
<b>1</b>	WHITE

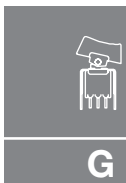
**NOTE:** Actuator finish: matte. Other colors available, consult Customer Service Center.

Rocker



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

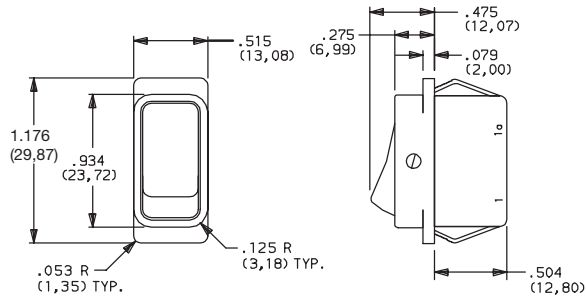
[www.ckswitches.com](http://www.ckswitches.com)



# DF Series Power Rocker Switches

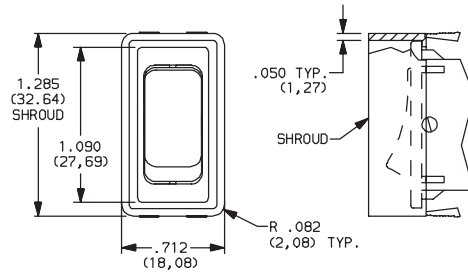
## HOUSING STYLE/COLOR

### S SUB-PANEL



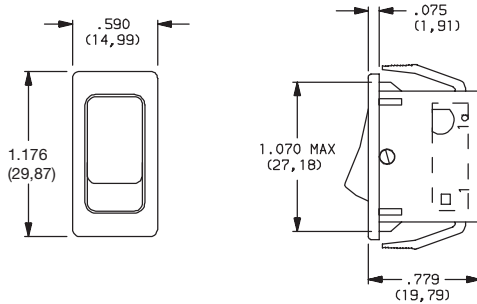
NOTE: DF52 & DF62 models only.

### G2 ACTUATOR GUARD



NOTE: Not available with 'A' termination. Available in black only.

### P PANEL



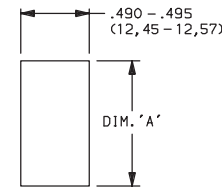
NOTE: Not available with 'A' termination. Available in black only.

OPTION CODE	HOUSING COLOR
2	(STD.) BLACK
1	WHITE

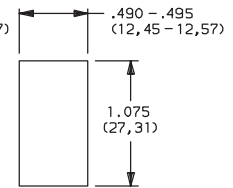
NOTE: Housing finish: matte. Other colors available, consult Customer Service Center.

### PANEL MOUNTING

PANEL THICKNESS	DIM 'A'
.029-.048 (0,74) (1,22)	1.021 (25,93)
.048-.078 (1,22) (1,98)	1.029 (26,14)
.078-.117 (1,98) (2,97)	1.045 (26,54)
.075-.140 (1,91) (3,56)	1.075 (27,31)



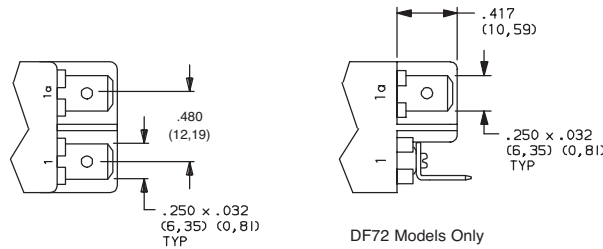
DF52 & DF62 Models with 'S' housing style



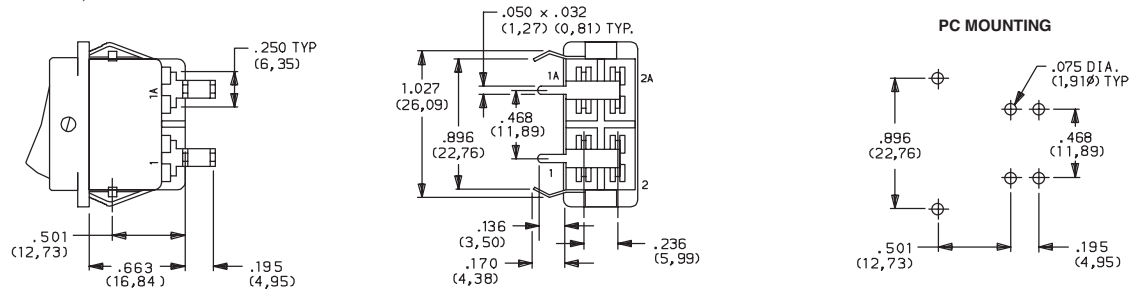
DF52, DF62 & DF72 Models with 'P2' & 'G2' housing style

## TERMINATIONS

### 15 QUICK CONNECT

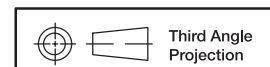


### A RIGHT ANGLE, PC THRU-HOLE



Actuator shown in Pos. 1

NOTE: DF52 and DF62 Models Only



Third Angle Projection

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



# DF Series Power Rocker Switches

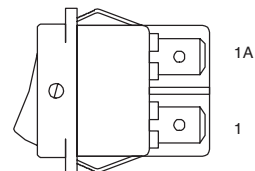
## ACTUATOR MARKINGS

**NONE** NO MARKING

**D** ON-OFF

**H** O |

**P** O -



**NOTE:** Orientation of actuator markings and terminals.

'D, H, & P' marking options: marking color white, standard for all actuator colors except white. Marking color black, standard for white actuators. Consult Customer Service Center for other available marking colors.

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		POWER	
<b>QA</b>	SILVER 1,2		16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC; 6 AMPS @ 48 V DC (UL), 2 AMPS @ 60 V DC, 11 AMPS @ 30 V DC
			16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC (UL)

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

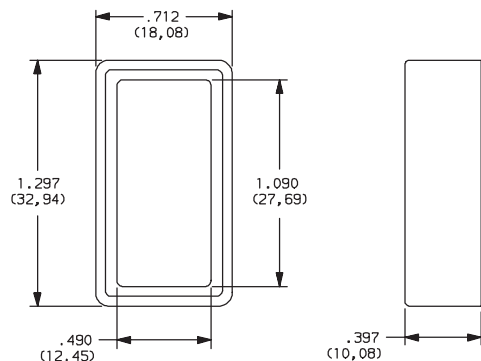
1 CONTACTS: Fine silver, silver plated.

All models 

2 TERMINALS: Copper, silver plated.

## AVAILABLE HARDWARE

### Actuator Guard



### PART NO.

**285B02000**

Material: Nylon 6/6  
Finish: Matte

Rocker



G

**C&K**



Third Angle Projection

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

# CR Series Round Single Pole Specialty Rocker Switches

## Features/Benefits

- Round actuator and body
- Nice styling
- Multiple illuminated versions available
- IP65 splash proof rubber boot option

## Typical Applications

- Appliances, small and large
- Office equipment
- Computers and peripherals
- Audio/Video equipment
- RoHS compliant



**UL** US UL 61058-1

## Specifications

### CONTACT RATING:

16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC.

16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC.

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

INSULATION RESISTANCE:  $10^8 \Omega$  min.

DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.

OPERATING TEMPERATURE: -20°C to + 85°C

## Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), matte finish.

ILLUMINATED ACTUATOR: Polycarbonate, matte finish.

CENTER CONTACTS: Silver plated, copper alloy.

END CONTACTS: Silver plated AgSnO<sub>2</sub>InO<sub>3</sub>.

ALL TERMINALS: Silver plated, copper alloy.

**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 G-78 through G-80. For additional options not shown in catalog, consult Customer Service Center.

<p><b>Switch Function</b></p> <p><b>CR101</b> SPDT On-None-On</p> <p><b>CR102</b> SPST On-None-Off</p> <p><b>Actuator</b></p> <p><b>J1</b> Rocker</p> <p><b>J2*</b> Two-tone rocker</p> <p><b>J3</b> Illuminated rocker</p> <p><b>J4**</b> Circle, illuminated rocker</p> <p><b>J5</b> Oval, illuminated rocker</p> <p><b>JN</b> Paddle, rocker</p> <p><b>JP</b> Paddle, illuminated rocker</p>	<p><b>Actuator Color</b></p> <p><b>2</b> Black</p> <p><b>1</b> White</p> <p><b>3</b> Red</p> <p><b>R</b> Red, illuminated</p> <p><b>A</b> Amber, illuminated</p> <p><b>G</b> Green, illuminated</p> <p><b>Mounting Style/Color</b></p> <p><b>S2</b> Snap-in, black</p> <p><b>S1</b> Snap-in, white</p>	<p><b>Termination</b></p> <p><b>15</b> .187" quick connect</p> <p><b>Contact Rating</b></p> <p><b>QF</b> Silver</p> <p><b>Lamp Rating</b></p> <p><b>(NONE)</b> No lamp</p> <p><b>6</b> LED</p> <p><b>7</b> 125 VAC neon</p> <p><b>8</b> 250 VAC neon</p>
---	--	--

\* Refer to table on page G-79 for actuator options.

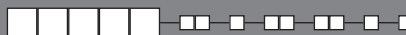


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

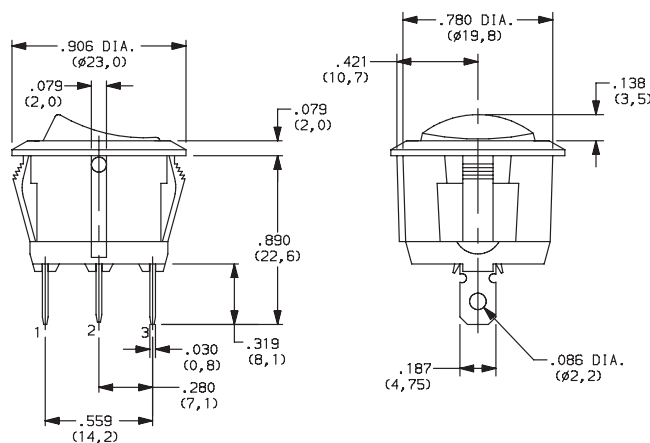


# CR Series Round Single Pole Specialty Rocker Switches

## SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
	<b>CR101</b>	ON	NONE	ON	2-3		2-1	
SP	<b>CR102</b>	ON	NONE	OFF		N/A		 OR  For 7 & 8 Illuminated Versions



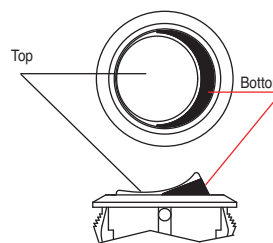
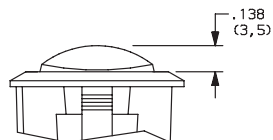
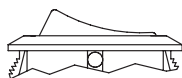
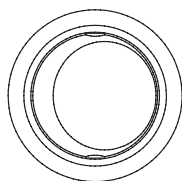
## ACTUATOR



- J1** ROCKER
- J3** ILLUMINATED ROCKER

- J2** TWO-TONE ROCKER

Rocker

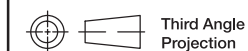


**NOTE:** J3 actuator available with the combination of 7 & 8 lamp ratings and CR102 switch function only.



G

**C&K**

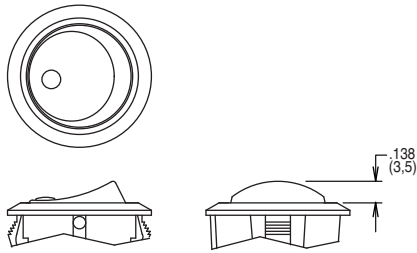


Third Angle Projection  
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# CR Series Round Single Pole Specialty Rocker Switches

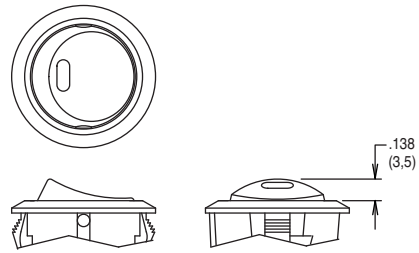
## ACTUATOR

**J4** CIRCLE, ILLUMINATED ROCKER



**NOTE:** Available with the combination of CR102 switch function and 7 & 8 lamp ratings only.

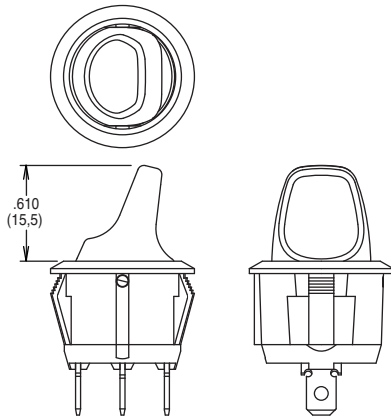
**J5** OVAL, ILLUMINATED ROCKER



**NOTE:** Available with the combination of CR102 switch function and 6 lamp rating only.

**JN** PADDLE, ROCKER

**JP** PADDLE, ILLUMINATED ROCKER

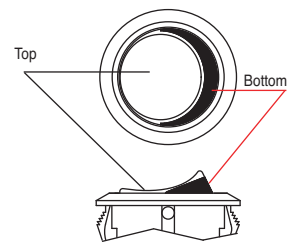


**NOTE:** JP actuator available with the combination of CR102 switch function and 7 & 8 lamp ratings only.

## ACTUATOR COLOR

ACTUATOR	OPTION CODE	ACTUATOR COLOR
<b>J1</b>	<b>2</b>	BLACK
	<b>1</b>	WHITE
	<b>3</b>	RED
<b>J3, J4</b> <b>J5, JP</b>	<b>R</b>	RED, ILLUMINATED
	<b>A</b>	AMBER, ILLUMINATED
	<b>G</b>	GREEN, ILLUMINATED

ACTUATOR	OPTION CODE	ACTUATOR COLOR	
		TOP	BOTTOM
<b>J2</b>	<b>1</b>	WHITE	RED
	<b>2</b>	WHITE	BLACK
	<b>3</b>	RED	WHITE
	<b>4</b>	BLACK	WHITE
	<b>5</b>	BLACK	RED

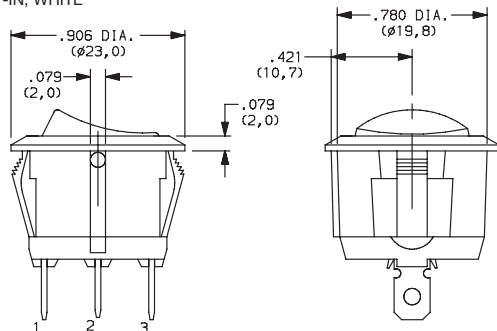


J2 actuator only

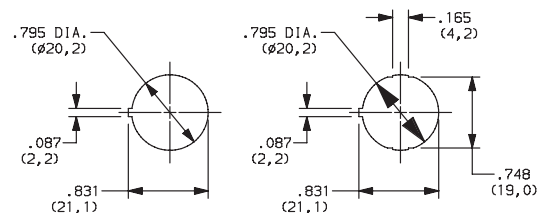
## MOUNTING STYLE/COLOR

**S2** SNAP-IN, BLACK

**S1** SNAP-IN, WHITE

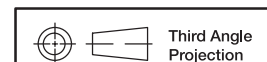


### PANEL MOUNTING



Panel thickness:  
2.0 - 3.0 mm

Panel thickness:  
0.7 - 3.0 mm



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

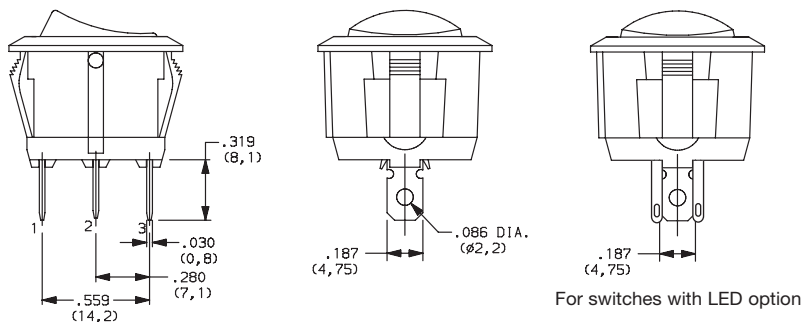
**C&K**




# CR Series Round Single Pole Specialty Rocker Switches

## TERMINATION

**15** .187" QUICK CONNECT



## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
<b>QF</b>	SILVER	POWER	16 AMPS @ 125 VAC; 10 AMPS @ 250 VAC 

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

## LAMP RATING

**(NONE)** NO LAMP

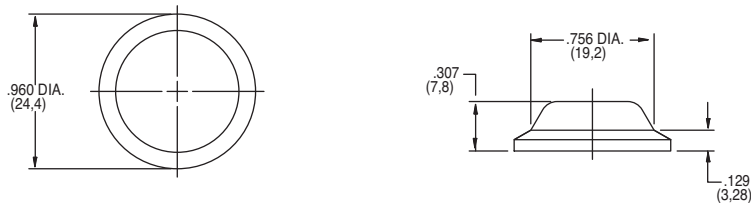
**6** LED RATING @ 10 mA  $V_f=1.85V$

**7** 125 VAC 33k $\Omega$  NEON

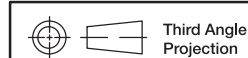
**8** 250 VAC 150k $\Omega$  NEON

## ACCESSORIES

**377C00000** IP65 SPLASH PROOF RUBBER BOOT



Rocker



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

# SW Series Rocker Switches

## Features/Benefits

- Various designs up to 16 amps
- Heavy duty and extended life cycles
- SPST, SPDT and DPST options
- Different symbols available

## Typical Applications

- Household appliances
- Industrial equipment
- Audio & visual equipment
- Telecommunication
- Office equipment



## Specifications

CONTACT RATING: 6.5 Amps @ 125 VAC  
 ELECTRICAL LIFE: 6,000 cycles at full load.  
 INITIAL CONTACT RESISTANCE: 100m Ω min.  
 INSULATION RESISTANCE: 100M Ω min.  
 DIELECTRIC STRENGTH: 1,500 VAC (50-60 Hz)  
 OPERATING FORCE: ON\_OFF: 250 ± 100 gf  
 OFF\_ON: 700 ± 250 gf  
 PACKAGING: 300 pieces per bag (5 trays)  
 2,400 pieces per box

## Materials

HOUSING: PA (UL 94V-2).  
 KNOB: PA (UL 94V-2).  
 CONTACTS: 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.

## Environmental

OPERATING TEMPERATURE: 0°C to 65°C

PART NUMBER	HOUSING COLOR
<b>SW-13A65N-A01</b>	White
<b>SW-13A65N-A01 BK</b>	Black

