

C&K T Series Subminiature Rocker Switches

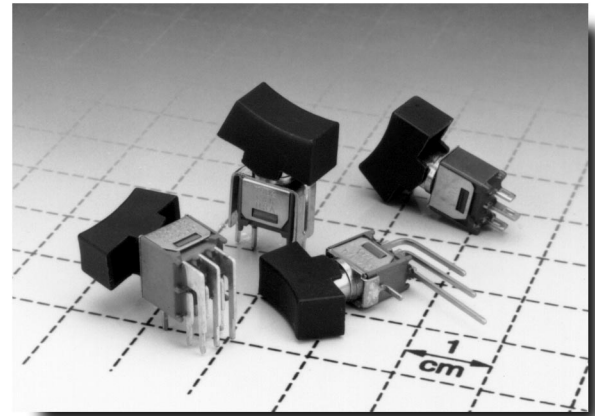


Features/Benefits

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

Typical Applications

- **Telecommunications**
- **Instrumentation**
- **Medical equipment**



Build-A-Switch

Our easy Build-A-Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box. Switches with standard options are shown on pages F-44 and F-45. Available options are shown and described on pages F-45 thru F-48. 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.

Typical Example: T 1 0 1 — J 1 — Z — Q — E — 2

Switch Function		Actuator	Terminations	Contact Material	Seal	Actuator Color
T101 (STD.) SP On-None-On		J1 (STD.) Rocker	A (STD.) Right angle, PC thru-hole	B (STD.) Gold	E (STD.) Epoxy	2 (STD.) Black
T201 (STD.) DP On-None-On		J6 (STD.) Rocker	AV (STD.) Vertical Right angle, PC thru-hole	Q (STD.) Silver		1 White
T102 SP Off-None-On			C (STD.) PC Thru-hole	K Gold		3 Red
T103 SP On-Off-On			Z (STD.) Solder lug	M Silver		
T105 SP Mom.-Off-Mom.			V3 V-bracket	G Gold over silver		
T107 SP On-Off-Mom.			W Wire wrap	L Gold over silver		
T108 SP On-None-Mom.						
T203 DP On-Off-On						
T205 DP Mom.-Off-Mom.						
T207 DP On-Off-Mom.						
T208 DP On-None-Mom.						
T211 DP On-On-On						

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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 F-48 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 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10^9 ohms min.

DIELECTRIC STRENGTH: 1000 V RMS 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: 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 standard.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, 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 F-48 for additional contact materials.

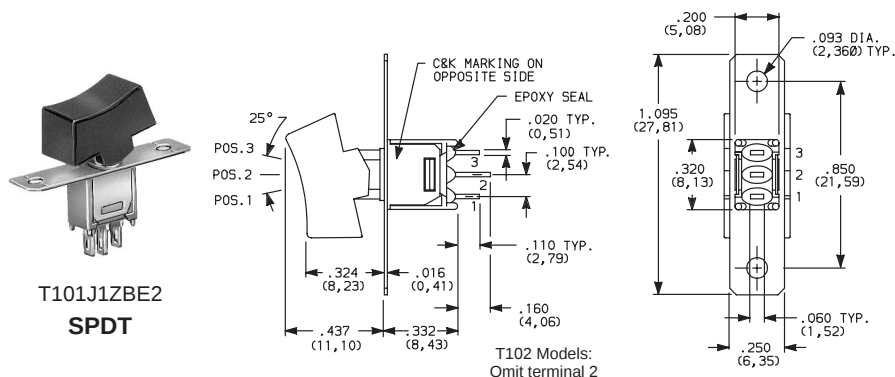
CENTER CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page F-48 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screws & Lockwasher: Stainless steel.

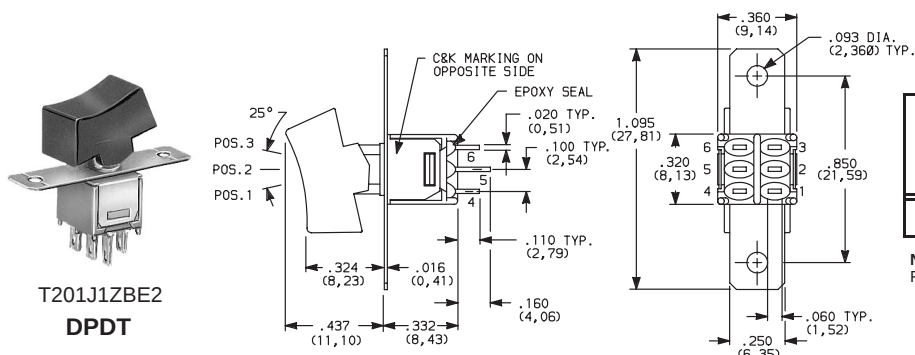
Standoff: Nylon standard, aluminum available, consult Customer Service Center.

SWITCHES WITH STANDARD OPTIONS



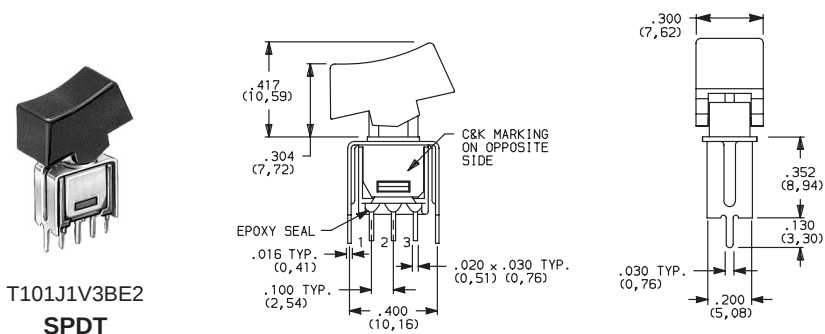
PART NUMBER	PART NUMBER	POS. 1	POS. 2	POS. 3
T101J1ZQE2	SPDT	ON	NONE	ON

NOTE: For PC termination, replace 'Z' with 'C'. For panel mounting information, see page F-48.



PART NUMBER	PART NUMBER	POS. 1	POS. 2	POS. 3
T201J1ZQE2	DPDT	ON	NONE	ON

NOTE: For PC termination, replace 'Z' with 'C'. For panel mounting information, see page F-46.



PART NUMBER	PART NUMBER	POS. 1	POS. 2	POS. 3
T101J1V3BE2	SPDT	ON	NONE	ON

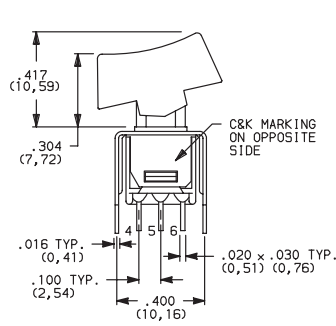
NOTE: For PC termination, replace 'Z' with 'C'. For panel mounting information, see page F-46.

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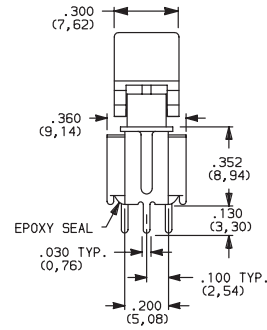
SWITCHES WITH STANDARD OPTIONS

PART NUMBER	PART NUMBER	POS. 1	POS. 2	POS. 3
T201J1V3BE2	DPDT	ON	NONE	ON

NOTE: For PC termination, replace 'Z' with 'C'.
For panel mounting information, see page F-48.



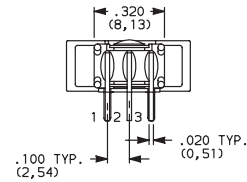
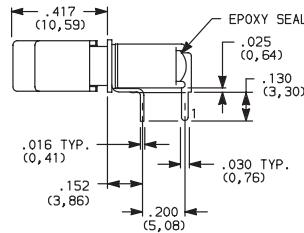
Actuator Shown In Pos. 1



T201J1V3BE2
DPDT

PART NUMBER	PART NUMBER	POS. 1	POS. 2	POS. 3
T101J6ABE2	SPDT	ON	NONE	ON

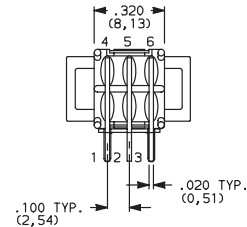
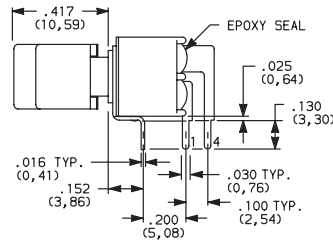
NOTE: For PC termination, replace 'Z' with 'C'.
For panel mounting information, see page F-47.



T101J6ABE2
Horizontal Actuation
SPDT

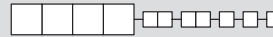
PART NUMBER	PART NUMBER	POS. 1	POS. 2	POS. 3
T201J1ABE2	DPDT	ON	NONE	ON

NOTE: For PC termination, replace 'Z' with 'C'.
For panel mounting information, see page F-47.



T201J1ABE2
Horizontal Actuation
DPDT

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
SP	T101 (STD.)	ON	NONE	ON	2-3	OPEN	2-1	
	T103	ON	OFF	ON				
	T105	MOM.	OFF	MOM.				
	T107	ON	OFF	MOM.				
	T108	ON	NONE	MOM.				
	T102	OFF	NONE	ON	OPEN	N/A	3-1	SPST
DP	T201 (STD.)	ON	NONE	ON	2-3,5-6	OPEN	2-1,5-4	
	T203	ON	OFF	ON				
	T205	MOM.	OFF	MOM.				
	T207	ON	OFF	MOM.				
	T208	ON	NONE	MOM.				
	T211**	ON	ON	ON	2-3,5-6	2-3,5-4	2-1,5-4	DPDT

MOM. = Momentary

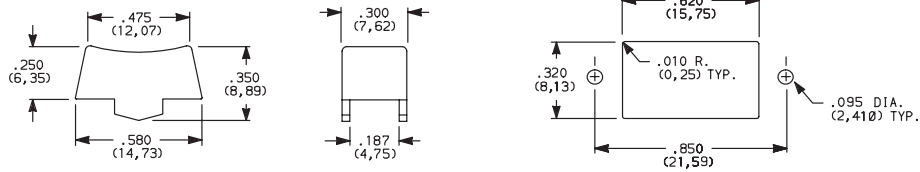
** Wiring for 3-way switch, see page L-29.

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

C&K T Series Subminiature Rocker Switches

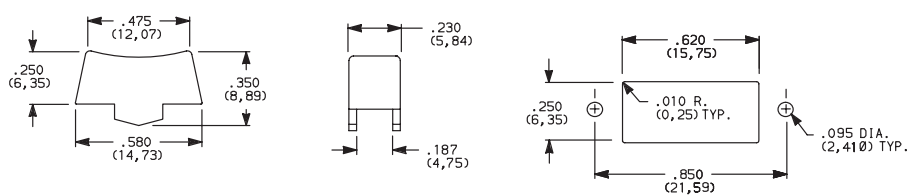
ACTUATOR ACTUATOR COLOR

J1 (STD.) ROCKER



Standard with all models except T10X with A terminations.

J6 (STD.) ROCKER



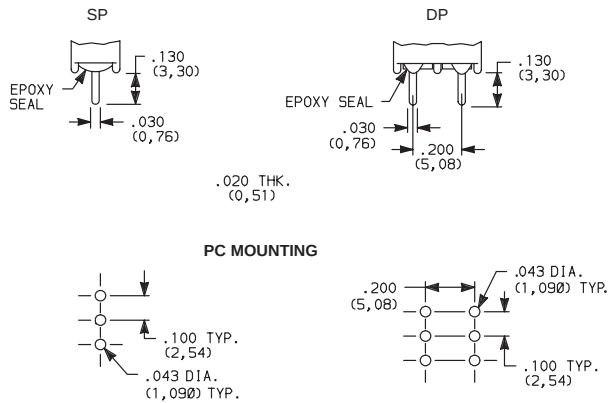
Standard with T10X model with A terminations.

OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

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

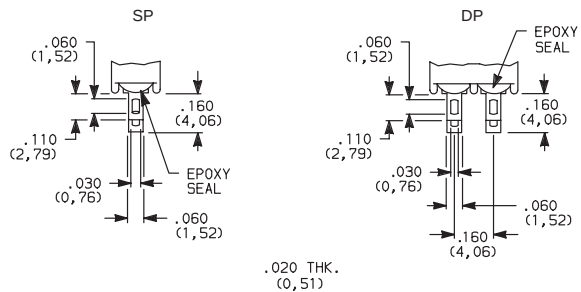
TERMINATIONS

C (STD.) PC THRU-HOLE



T102 models: Omit center hole.

Z (STD.) SOLDER LUG

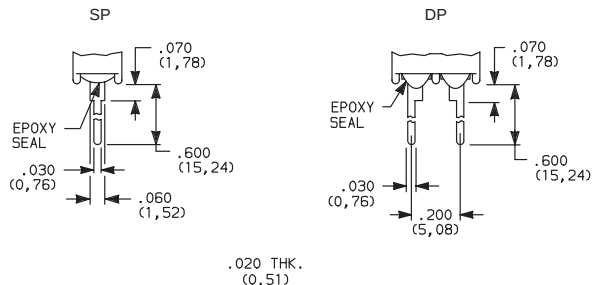


SP and DP

SP and DP

Not available with K, L, or M contact material.

W WIRE WRAP

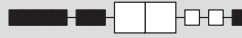


SP and DP

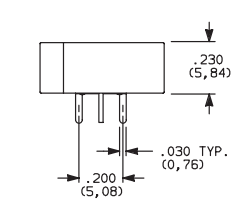
NOTE: Models with W or Z terminations supplied with panel mounting bracket standard, as shown on page F-44. Q contact material standard with Z and C terminations; B contact material standard with W terminations.

C&K T Series Subminiature Rocker Switches

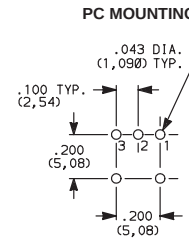
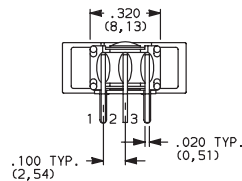
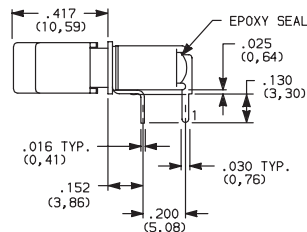
TERMINATIONS



A (STD.) RIGHT ANGLE, PC THRU-HOLE



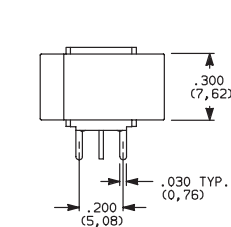
Actuator Shown In Pos. 1



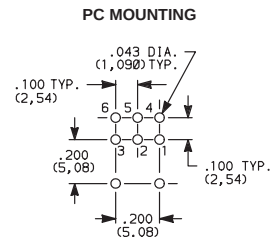
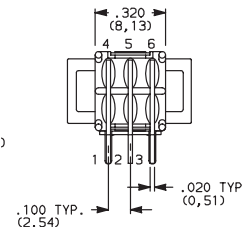
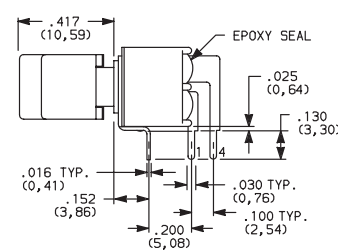
T101J6ABE2
Horizontal Actuation
SPDT

Not available with T102 model. J6 actuator standard only on T10X models with A terminations.

A (STD.) RIGHT ANGLE, PC THRU-HOLE

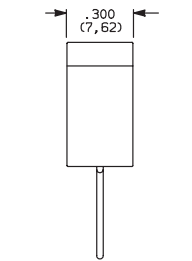


Actuator Shown In Pos. 1

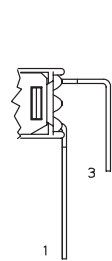
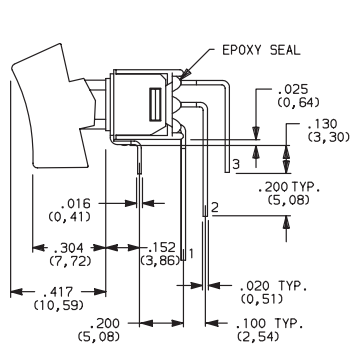


T201J1ABE2
Horizontal Actuation
DPDT

AV (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE

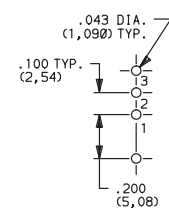


Actuator Shown In Pos. 1



T102 models:
Omit terminal 2.

PC MOUNTING



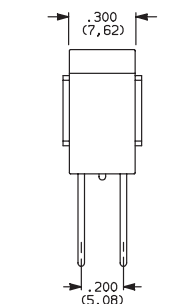
T102 models:
Omit hole 2.



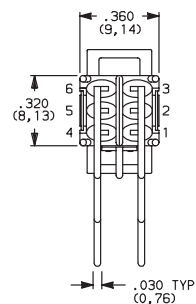
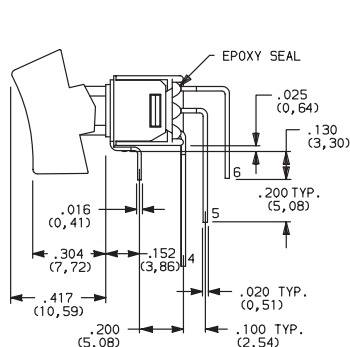
T101J1AVBE2
Vertical Actuation
SPDT

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

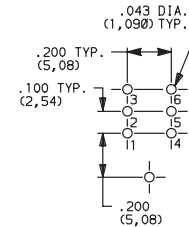
AV (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1



PC MOUNTING



T201J1AVBE2
Vertical Actuation
DPDT

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

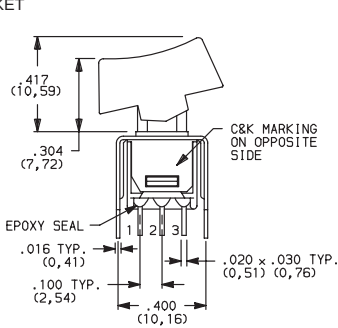
C&K T Series Subminiature Rocker Switches

TERMINATIONS

V3 VERTICAL MOUNT, V-BRACKET



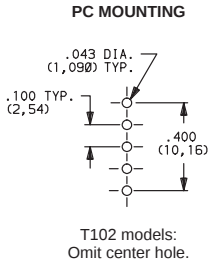
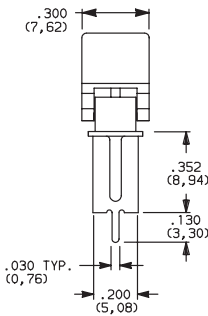
T101J1V3BE2
SPDT



Actuator Shown In Pos. 1



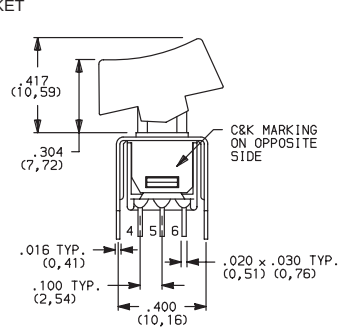
T102 models:
Omit terminal 2.



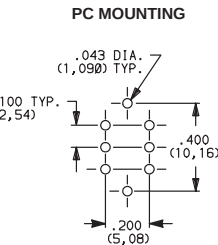
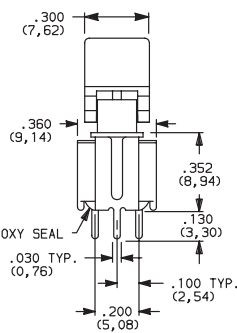
V3 VERTICAL MOUNT, V-BRACKET



T201J1V3BE2
DPDT



Actuator Shown In Pos. 1



CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B (STD.)	GOLD ¹	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
K		TIN-LEAD ⁶		
Q (STD.)	SILVER ^{4,5}	SILVER ⁵	POWER	TX01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.
M		TIN-LEAD ⁶		
G	GOLD OVER SILVER ^{2,3}	GOLD ³	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.
L		TIN-LEAD ⁶		

CONTACT MATERIAL/APPLICATION RECOMMENDATIONS—SEE CHART, PAGE L-31.

- 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 tin-lead alloy over nickel plate.

All models  with all options when ordered with G, L, M or Q contact material.
B contact material standard with A, AV, V3 & W terminations.
Q contact material standard with C & Z terminations.
K, L & M contact materials not available with Z terminations.

SEAL

E (STD.) EPOXY SEAL

