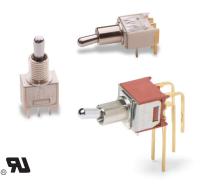
#### Features/Benefits

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

#### Typical Applications

- Hand-held telecommunications
- Instrumentation
- Medical equipment



#### Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. 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-42 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  $\Omega$  typ. initial @
- 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE:  $10^9 \Omega$  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 P, R, Q, B or G contact material are RoHS compliant and compatible.

**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: Brass, chrome plated.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, matte-tin plated.

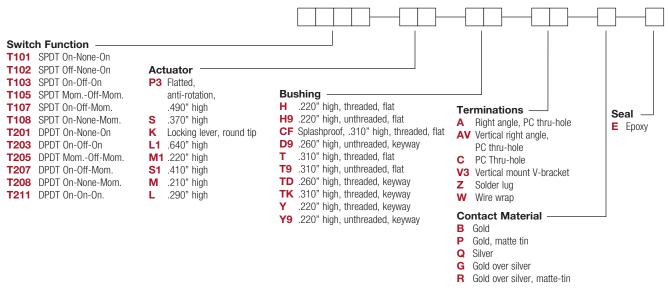
- END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See above for additional contact materials.
- CENTER CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page F-42 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut & Locking Ring: Brass, nickel plated. Lockwasher: Steel, nickel plated. Additional hardware available separately, see Section N.

#### **Build-A-Switch**

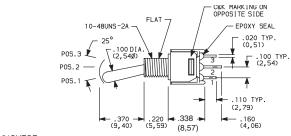
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages F-38 thru F-42. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.

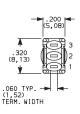


F Toggle

#### **SWITCH FUNCTION** -----

		SWITCH FUNCTION			CON	CONNECTED TERMINALS			
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3		
NO.	MODEL	1		1	<u> </u>	<u> </u>	1		
POLES	NO.	C&K mar	rking on oppos	site side	C&K marking on opposite side				SCHEMATIC
	T101	ON	NONE	ON	2-3	N/A	2-1		
	T103	ON	OFF	ON					•2 (COMM)
SP	T105	MOM.	OFF	MOM.	2-3	OPEN	2-1		
Gr	T107	ON	OFF	MOM.					
	T108	ON	NONE	MOM.	2-3	NA	2-1	SPDT	
	T102	OFF	NONE	ON	OPEN	N/A	3-1	SPST	1 • • 3





Part number shown: T101SHZQE

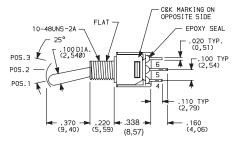
SPDT

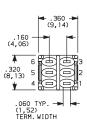
	SWITCH FUNCTION			CONNECTED TERMINALS				
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
			<b>1</b>	1	<b>▶</b>		▲	
NO. POLES	MODEL NO.	C&K marking on opposite side			C&K mai	rking on opposite si	SCHEMATIC	
	T201	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	T203	ON	OFF	ON				
DP	T205	MOM.	OFF	MOM.	2-3,5-6	OPEN	2-1,5-4	$1 \stackrel{2}{\bullet} \stackrel{\text{(COMM)}}{3} \stackrel{5}{\bullet} \stackrel{6}{\bullet} 6$
	T208	ON	NONE	MOM.	2-3,5-6	N/A	2-1,5-4	
	T211*	ON	ON	ON.	2-3,5-6	2-3,5-4	2-1,5-4	DPDT

F-38

DPDT







Part number shown: T201SHZQE

MOM. = Momentary \* Wiring for 3-way switch

**Cek** 15 Jan 21

Toggle 📊

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



Terminal Nos.

For Reference Only

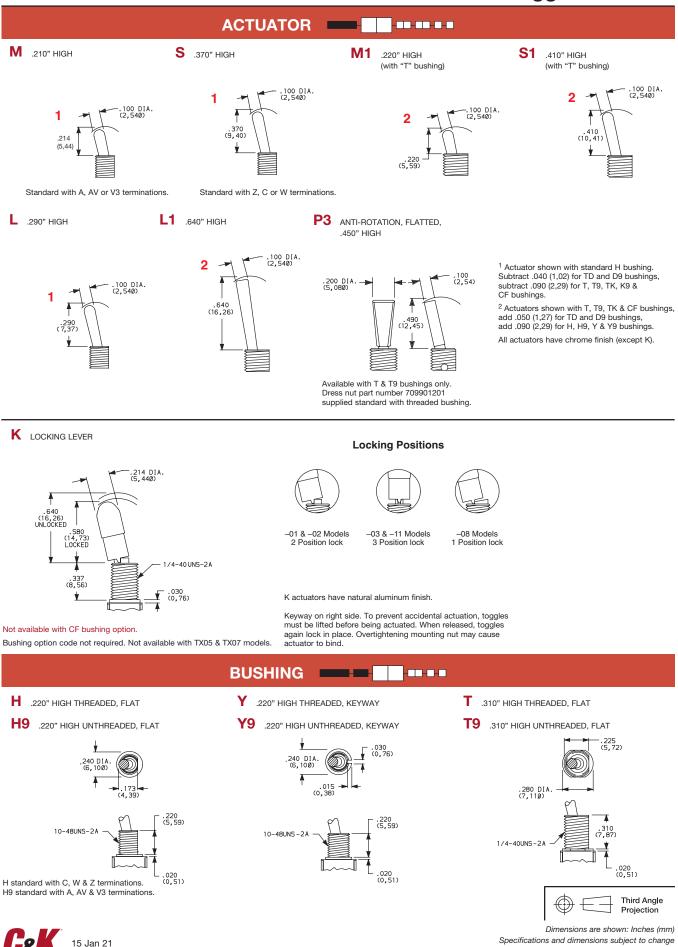
Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

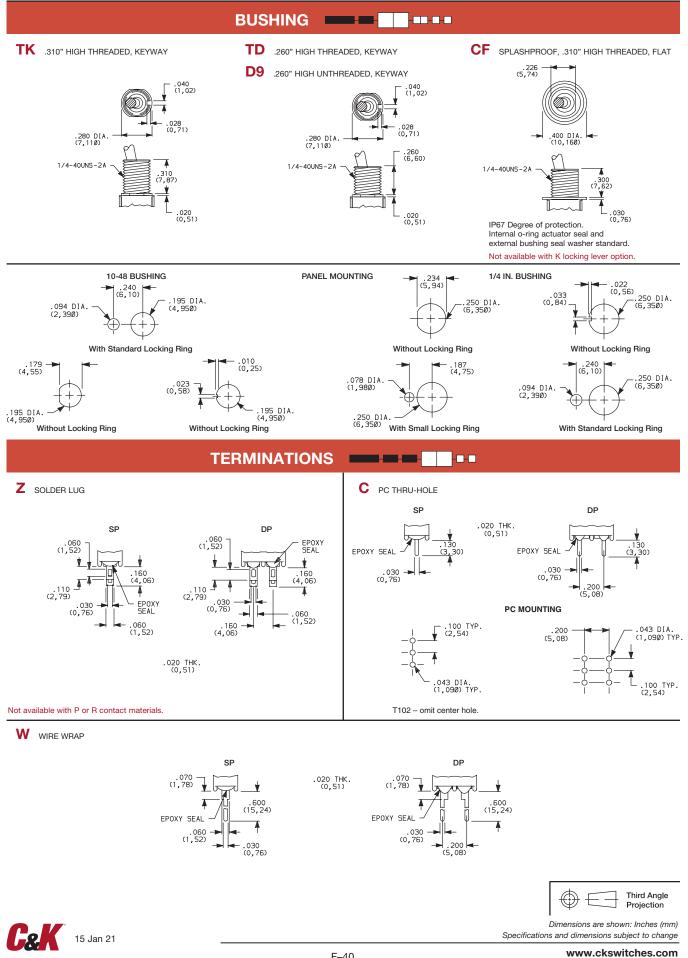
 $\bigcirc$ 

Third Angle

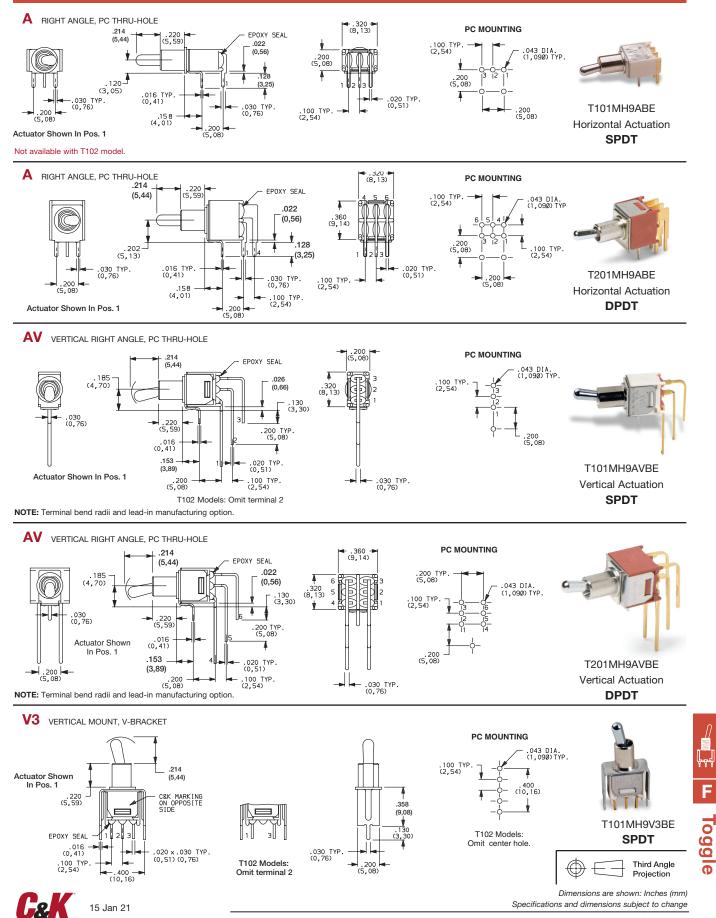
Projection



**F** Toggle



#### TERMINATIONS -0-0



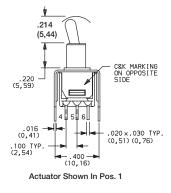
F

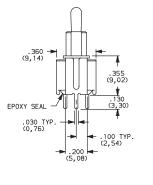
### TERMINATIONS

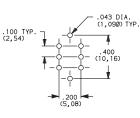
#### V3 VERTICAL MOUNT, V-BRACKET



DPDT







PC MOUNTING

### **CONTACT MATERIAL**

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

\* 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.

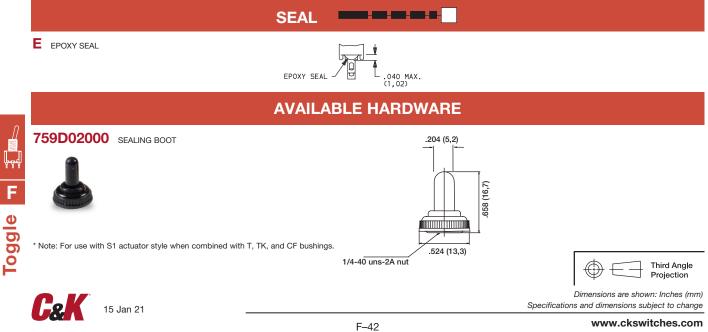
<sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

<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.

All models  ${}_{\scriptscriptstyle (\!\!\!\ \ \!\!\!)}$  with all options when ordered with R, G, or Q contact material. B contact material standard with A, AV, V3 & W terminations. Q contact material standard with C & Z terminations.



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