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 Ω 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

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.

Switch Function T101 SPDT On-None-On T102 SPDT Off-None-On Actuator T103 SPDT On-Off-On P3 Flatted. T105 SPDT Mom.-Off-Mom. **Bushing** anti-rotation, H .220" high, threaded, flat T107 SPDT On-Off-Mom. .490" high Terminations Seal T108 SPDT On-None-Mom. .370" high H9 .220" high, unthreaded, flat Right angle, PC thru-hole **E** Epoxy CF Splashproof, .310" high, threaded, flat T201 DPDT On-None-On K Locking lever, round tip Vertical right angle, D9 .260" high, unthreaded, keyway T203 DPDT On-Off-On .620" high PC thru-hole M1 .220" high T .310" high, threaded, flat T205 DPDT Mom.-Off-Mom. PC Thru-hole T207 DPDT On-Off-Mom. T9 .310" high, unthreaded, flat S1 .410" high V3 Vertical mount V-bracket T208 DPDT On-None-Mom. TD .260" high, threaded, keyway .210" high Z Solder lug TK .310" high, threaded, keyway T211 DPDT On-On-On. .290" high Wire wrap .220" high, threaded, keyway **Contact Material** Y9 .220" high, unthreaded, keyway B Gold Gold, matte tin O Silver

F-37



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

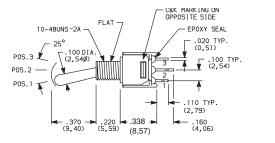


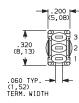
Gold over silver R Gold over silver, matte-tin

SWITCH FUNCTION 1------

		SWITCH FUNCTION			CONNECTED TERMINALS				
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3		
NO.	MODEL	7	1	4	7	±	4		
POLES NO.		C&K marking on opposite side			C&K marking on opposite side				SCHEMATIC
	T101	ON	NONE	ON	2-3	N/A	2-1		
	T103	ON	OFF	ON					2 2 (00MH)
SP	T105	мом.	OFF	мом.	2-3	OPEN	2-1		2 (COMM)
	T107	ON	OFF	мом.					
	T108	ON	NONE	мом.	2-3	NA	2-1	SPDT	
	T102	OFF	NONE	ON	OPEN	N/A	3-1	SPST	1 • 3

SPDT

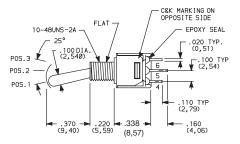


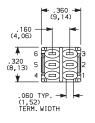


Part number shown: T101SHZQE

		SWITCH FUNCTION			CONNECTED TERMINALS			
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
		1	1	1	7	A	4	
NO. POLES	MODEL NO.	C&K marking on opposite side			C&K marking on opposite side			SCHEMATIC
DP	T201	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	T203	ON	OFF	ON	2-3,5-6	OPEN	2-1,5-4	8 2 (20)40 F 8
	T205	МОМ.	OFF	MOM.				$1 \bullet \underbrace{\begin{array}{c} 2 \text{ (COMM)} \\ \hline 3 \end{array}}_{4} \underbrace{\begin{array}{c} 5 \\ \hline \bullet \end{array}}_{6}$
	T208	ON	NONE	МОМ.	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

DPDT





Terminal Nos. For Reference Only

Part number shown: T201SHZQE

MOM. = Momentary

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

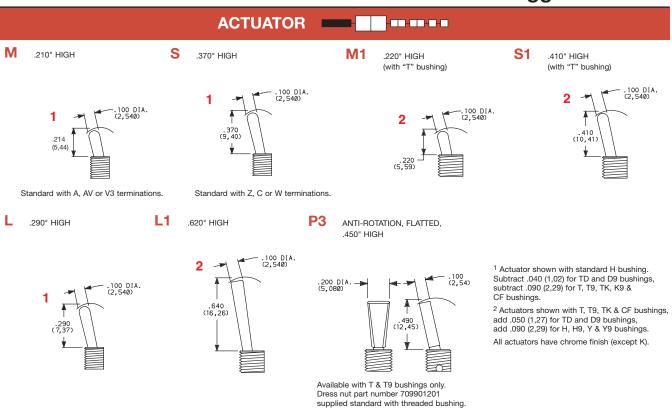


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

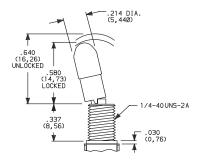




T Series Subminiature Toggle Switches



K LOCKING LEVER



Not available with CF bushing option.

Bushing option code not required. Not available with TX05 & TX07 models.

Locking Positions







–01 & –02 Model 2 Position lock

-03 & -11 Mode 3 Position lock

-08 Models

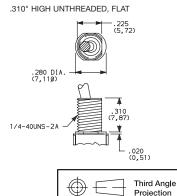
1 Position lock

K actuators have natural aluminum finish.

Keyway on right side. To prevent accidental actuation, toggles must be lifted before being actuated. When released, toggles again lock in place. Overtightening mounting nut may cause actuator to bind.

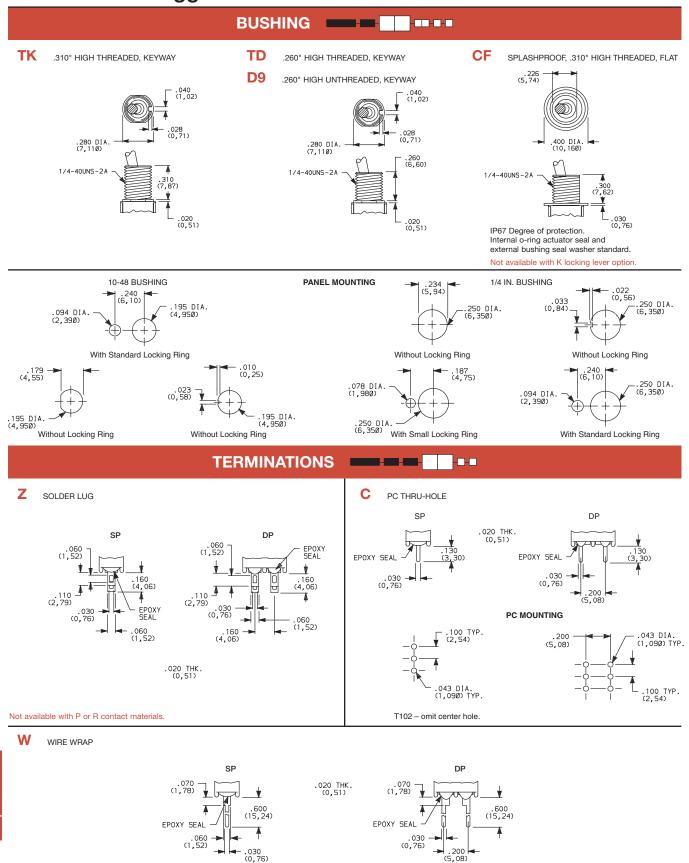
H .220" HIGH THREADED, FLAT Y .220" HIGH THREADED, KEYWAY T .310" HIGH THREADED, FLAT Y9 .220" HIGH UNTHREADED, KEYWAY T9 .310" HIGH UNTHREADED, (0,76) (6,100) (7,110) (5,59)



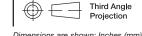


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change





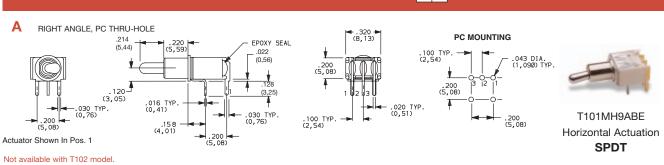


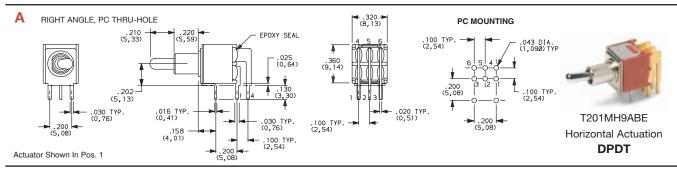


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

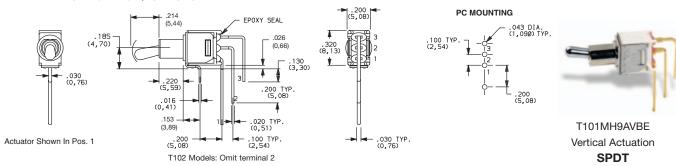
T Series Subminiature Toggle Switches



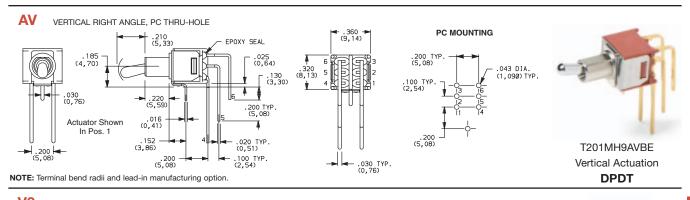


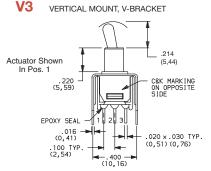




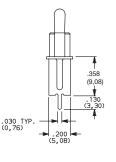


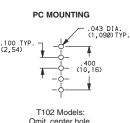
NOTE: Terminal bend radii and lead-in manufacturing option

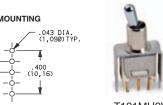






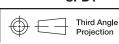








T101MH9V3BE SPDT



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

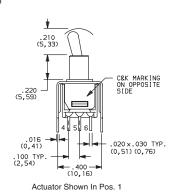


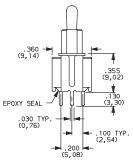
TERMINATIONS ----

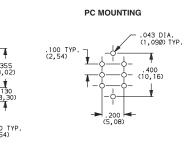
V3 VERTICAL MOUNT, V-BRACKET



T201MH9V3BE **DPDT**







CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS				
В	GOLD ¹	GOLD ¹	LOW LEVEL/	0.4 VA MAX. @ 20 V AC OR DC MAX.			
P		MATTE-TIN ⁶	DRY CIRCUIT	0.4 VA WIAA. @ 20 V AO ON DO WIAA.			
Q	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.			
G R	GOLD OVER SILVER ^{2,3}	GOLD ³ MATTE-TIN ⁶	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.

All models $_{\scriptscriptstyle{\odot}}$ 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.



E EPOXY SEAL

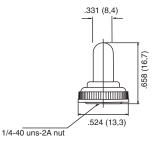


AVAILABLE HARDWARE



SEALING BOOT





^{*} Note: For use with S1 actuator style when combined with T, TK, and CF bushings.



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





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

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

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

 $^{^{\}rm 4}$ END CONTACTS: Coin silver, silver plated.

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

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