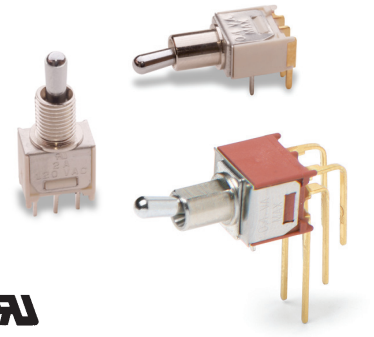
Features/Benefits

- ***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 Ω min.

DIELECTRIC STRENGTH: 1000 Vrms min. @ sea level.

OPERATING TEMPERATURE: –30ºC to 85ºC.

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.

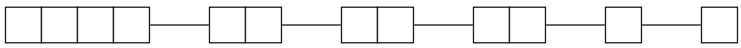
CENTER CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page F-42 for additional contact materials.

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.



Switch Function
- **T101** SPDT On-None-On
- **T102** SPDT Off-None-On
- **T103** SPDT On-Off-On
- **T105** SPDT Mom.-Off-Mom.
- **T107** SPDT On-Off-Mom.
- **T108** SPDT On-None-Mom.
- **T201** DPDT On-None-On
- **T203** DPDT On-Off-On
- **T205** DPDT Mom.-Off-Mom.
- **T207** DPDT On-Off-Mom.
- **T208** DPDT On-None-Mom.
- **T211** DPDT On-On-On.

Actuator
- **P3** Flatted, anti-rotation, .490” high
- **S** .370” high
- **K** Locking lever, round tip
- **L1** .640” high
- **M1** .220” high
- **S1** .410” high
- **M** .210” high
- **L** .290” high

Bushing
- **H** .220” high, threaded, flat
- **H9** .220” high, unthreaded, flat
- **CF** Splashproof, .310” high, threaded, flat
- **D9** .260” high, unthreaded, keyway
- **T** .310” high, threaded, flat
- **T9** .310” high, unthreaded, flat
- **TD** .260” high, threaded, keyway
- **TK** .310” high, threaded, keyway
- **Y** .220” high, threaded, keyway
- **Y9** .220” high, unthreaded, keyway

Terminations
- **A** Right angle, PC thru-hole
- **AV** Vertical right angle, PC thru-hole
- **C** PC Thru-hole
- **V3** Vertical mount V-bracket
- **Z** Solder lug
- **W** Wire wrap

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

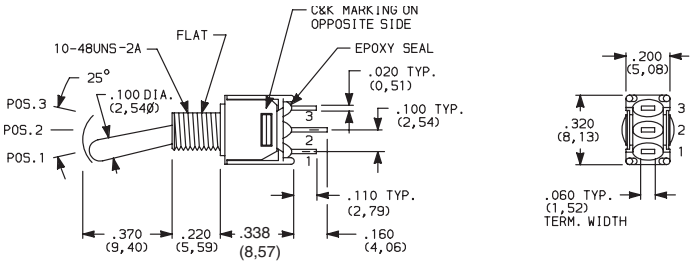
Seal
- **E** Epoxy

T Series
Subminiature Toggle Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION POS. 1	POS. 2	POS. 3	CONNECTED TERMINALS POS. 1	POS. 2	POS. 3	SCHEMATIC
		C&K marking on opposite side			C&K marking on opposite side			
SP	T101	ON	NONE	ON	2-3	N/A	2-1	
	T103	ON	OFF	ON	2-3	OPEN	2-1	
	T105	MOM.	OFF	MOM.				
	T107	ON	OFF	MOM.				
	T108	ON	NONE	MOM.	2-3	NA	2-1	SPDT
	T102	OFF	NONE	ON	OPEN	N/A	3-1	SPST

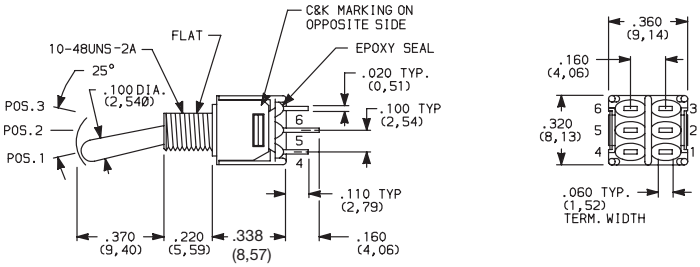
SPDT



Part number shown: T101SHZQE

NO. POLES	MODEL NO.	SWITCH FUNCTION POS. 1	POS. 2	POS. 3	CONNECTED TERMINALS POS. 1	POS. 2	POS. 3	SCHEMATIC
		C&K marking on opposite side			C&K marking on opposite side			
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	
	T205	MOM.	OFF	MOM.				
	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

DPDT



Part number shown: T201SHZQE

Terminal Nos.
For Reference Only

MOM. = Momentary
* Wiring for 3-way switch

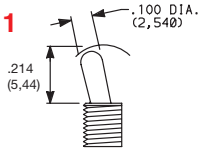
All models ® with all options when ordered with G, L, R or Q contact material.

Third Angle Projection

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

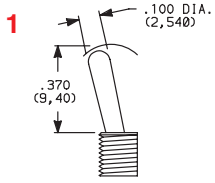
ACTUATOR

M .210" HIGH



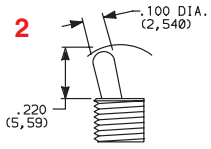
Standard with A, AV or V3 terminations.

S .370" HIGH

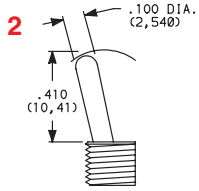


Standard with Z, C or W terminations.

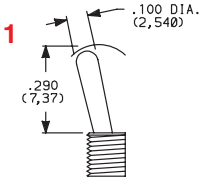
M1 .220" HIGH
(with "T" bushing)



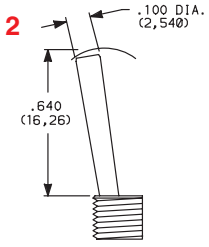
S1 .410" HIGH
(with "T" bushing)



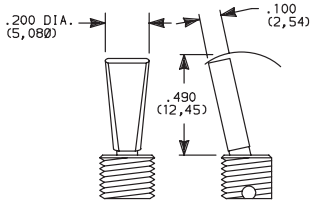
L .290" HIGH



L1 .640" HIGH



P3 ANTI-ROTATION, FLATTED,
.450" HIGH



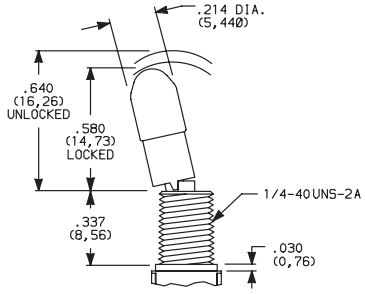
Available with T & T9 bushings only.
Dress nut part number 709901201
supplied standard with threaded bushing.

[1] Actuator shown with standard H bushing. Subtract .040 (1,02) for TD and D9 bushings, subtract .090 (2,29) for T, T9, TK, K9 & CF bushings.

[2] Actuators shown with T, T9, TK & CF bushings, add .050 (1,27) for TD and D9 bushings, add .090 (2,29) for H, H9, Y & Y9 bushings.

All actuators have chrome finish (except K).

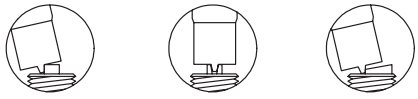
K LOCKING LEVER



Not available with CF bushing option.

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

Locking Positions



–01 & –02 Models
2 Position lock

–03 & –11 Models
3 Position lock

–08 Models
1 Position lock

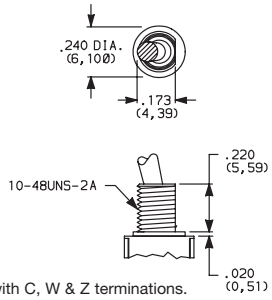
K actuators have natural aluminum finish.

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.

BUSHING

H .220" HIGH THREADED, FLAT

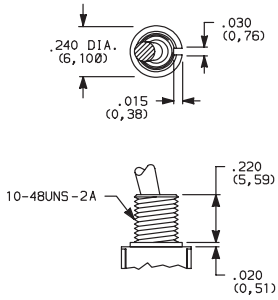
H9 .220" HIGH UNTHREADED, FLAT



H standard with C, W & Z terminations.
H9 standard with A, AV & V3 terminations.

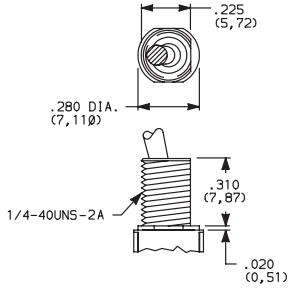
Y .220" HIGH THREADED, KEYWAY

Y9 .220" HIGH UNTHREADED, KEYWAY



T .310" HIGH THREADED, FLAT

T9 .310" HIGH UNTHREADED, FLAT



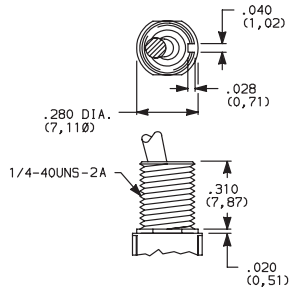
Third Angle Projection

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

T Series
Subminiature Toggle Switches

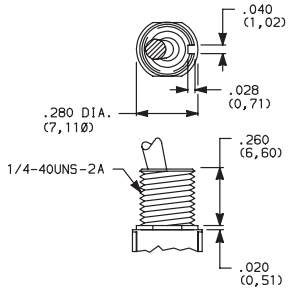
BUSHING

TK .310" HIGH THREADED, KEYWAY

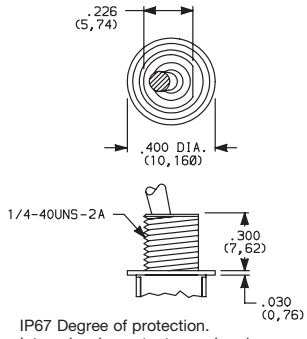


TD .260" HIGH THREADED, KEYWAY

D9 .260" HIGH UNTHREADED, KEYWAY



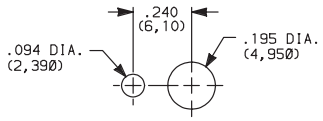
CF SPLASHPROOF, .310" HIGH THREADED, FLAT



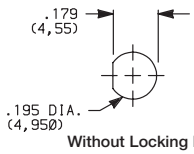
IP67 Degree of protection.
Internal o-ring actuator seal and external bushing seal washer standard.

Not available with K locking lever option.

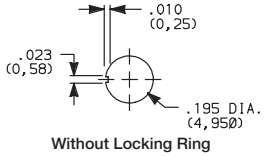
10-48 BUSHING



With Standard Locking Ring

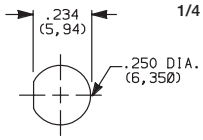


Without Locking Ring

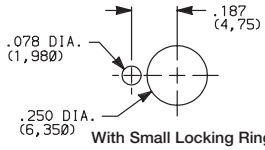


Without Locking Ring

PANEL MOUNTING

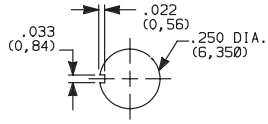


Without Locking Ring

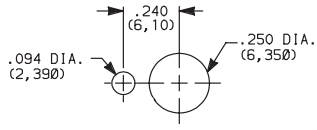


With Small Locking Ring

1/4 IN. BUSHING



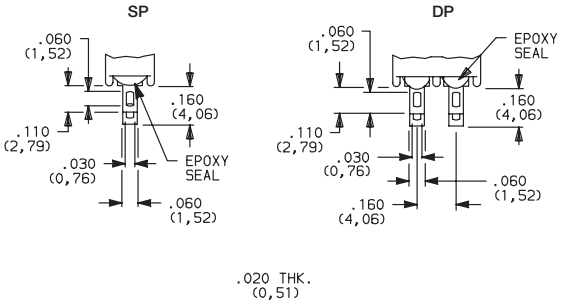
Without Locking Ring



With Standard Locking Ring

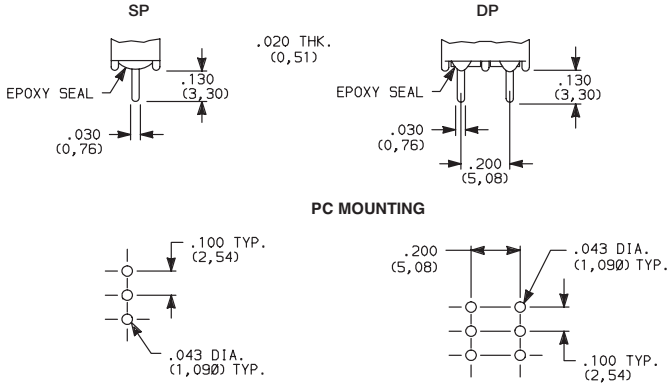
TERMINATIONS

Z SOLDER LUG



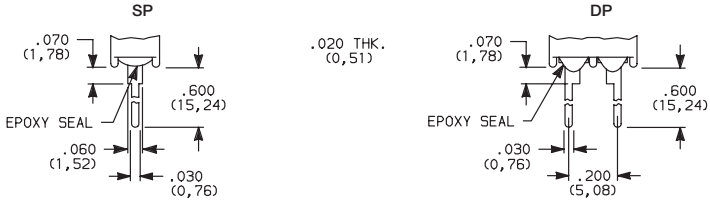
Not available with P or R contact materials.

C PC THRU-HOLE



T102 – omit center hole.

W WIRE WRAP

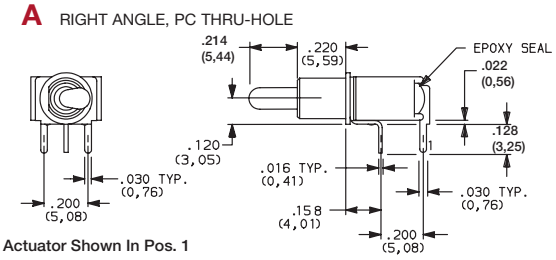


Third Angle Projection

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

TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE



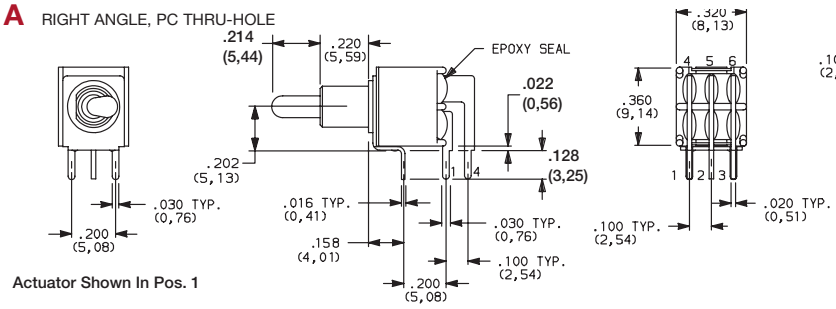
Actuator Shown In Pos. 1

Not available with T102 model.

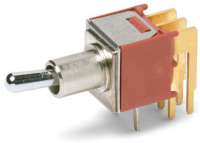


T101MH9ABE
Horizontal Actuation
SPDT

A RIGHT ANGLE, PC THRU-HOLE

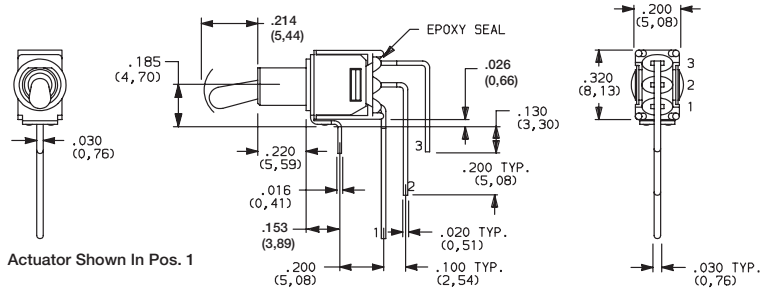


Actuator Shown In Pos. 1



T201MH9ABE
Horizontal Actuation
DPDT

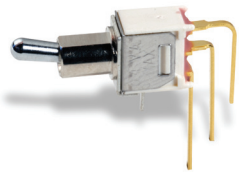
AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1

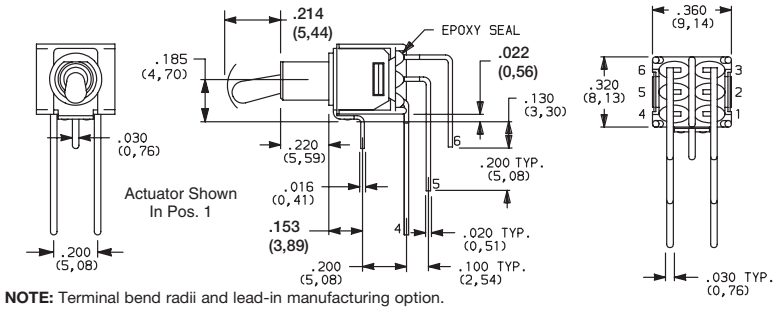
T102 Models: Omit terminal 2

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

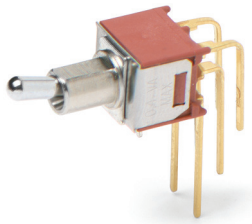


T101MH9AVBE
Vertical Actuation
SPDT

AV VERTICAL RIGHT ANGLE, PC THRU-HOLE

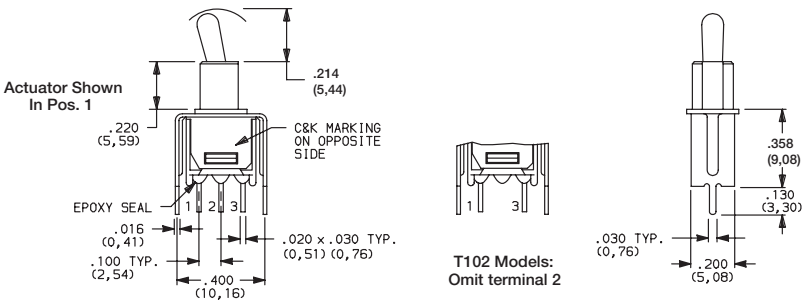


NOTE: Terminal bend radii and lead-in manufacturing option.



T201MH9AVBE
Vertical Actuation
DPDT

V3 VERTICAL MOUNT, V-BRACKET





T101MH9V3BE
SPDT

Third Angle Projection

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

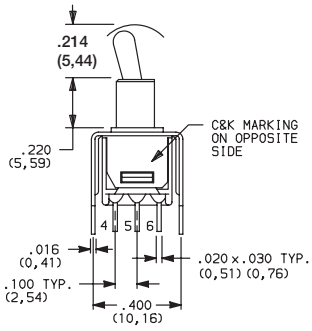
T Series
Subminiature Toggle Switches

TERMINATIONS

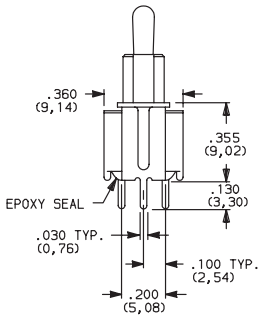
V3 VERTICAL MOUNT, V-BRACKET



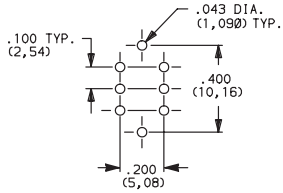
T201MH9V3BE
DPDT



Actuator Shown In Pos. 1



PC MOUNTING



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	TX01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.
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.
R		MATTE-TIN [6]		

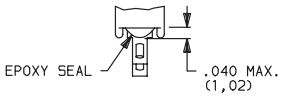
* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

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

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

SEAL

E EPOXY SEAL

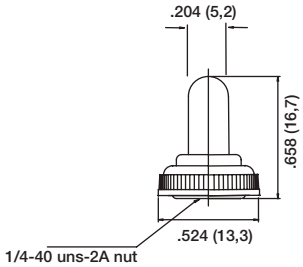


AVAILABLE HARDWARE

759D02000 SEALING BOOT



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



Third Angle Projection

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

Mouser Electronics

Authorized Distributor

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C&K Switches:

T101MH9V3BE T103SHV3QE T103SH9V3BE T101MHZQE T101STKCQE T201KZBE T103SHZQE T203SHZQE T103SHCQE T101KZQE T201SHCQE T101MH9ABE T101MH9AVBE T101SHCQE T201MH9ABE T101SHZQE T201SHZQE T102LHZQE T105SHZQE T107P3T9ALE T207SHZQE T207SHZBE T101MHZBE T201LHCGE T211STKCQE T101STDCBE T101LHZQE T101MH9AVQE T101S1H9V3BE T201MH9AQE T101L1H9CQE T101MHAVBE T103LTDZQE T103MY9CQE T105LHZQE T107MHZBE T208SH9AVBE T101L1Y9V3BE T101M1H9ABE T101M1HCBE T101M1TAVBE T101MHV3PE T101MY9CBE T101S1HABE T101S1T9ZBE T101S1TAGE T101S1TDZQE T101SCFABE T101SCFZBE T101SH9AGE T101SH9AVGE T101SH9AVQE T101SHCGE T101SHV3BE T101SYCQE T102M1HZBE T102MH9AVBE T102MHAVBE T102S1TZQE T102SHWBE T102SHWQE T103KAKE T103KCQE T103KZBE T103LTZQE T103M1H9AKE T103M1TAGE T103MHABE T103MHCRE T103MTAGE T103P3TAGE T103P3TCBE T103S1HAQE T103S1T9CQE T103S1T9V3QE T103S1TCQE T103S1YZBE T103SCFALE T103SH9ABE T103SH9CBE T103SHWQE T103STAGE T103STZQE T105L1HZBE T105M1H9AVBE T101KCBE T102P3T9V3PE T101MYZBE T101KABE T101KAVBE T101KAVQE T101KCQE T101KV3BE T101KZBE T101L1TKZBE T101LCFAVBE T101LCFZBE T101LH9ABE T101LH9AQE T101LH9V3BE