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.

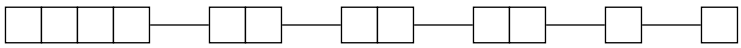
CENTER CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page F-42 for additional contact materials.

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

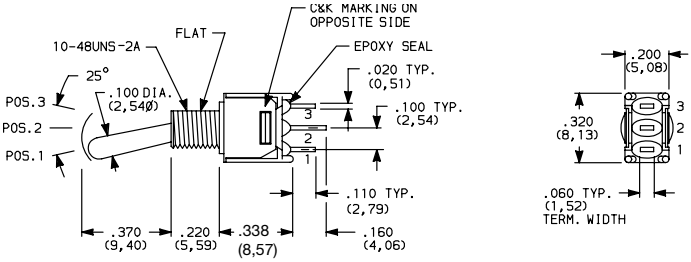
Seal
- **E** Epoxy

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				
	T105	MOM.	OFF	MOM.	2-3	OPEN	2-1	
	T107	ON	OFF	MOM.				
	T108	ON	NONE	MOM.	2-3	NA	2-1	SPDT
	T102	OFF	NONE	ON	OPEN	N/A	3-1	SPST

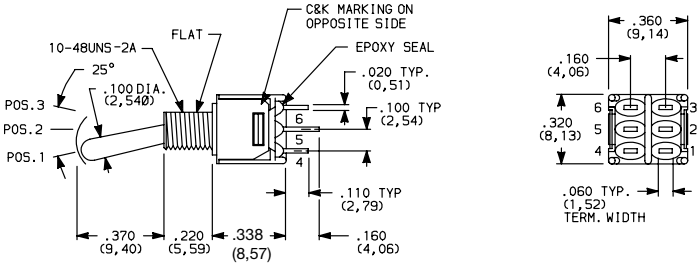
SPDT



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 refer to page N-10

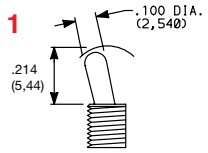
All models ® with all options when ordered with G, L, R or Q contact material.

Third Angle Projection

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

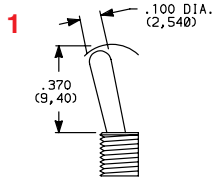
ACTUATOR

M .210" HIGH



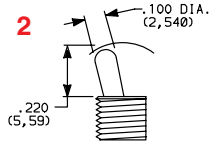
Standard with A, AV or V3 terminations.

S .370" HIGH

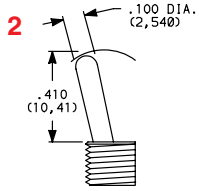


Standard with Z, C or W terminations.

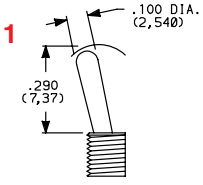
M1 .220" HIGH
(with "T" bushing)



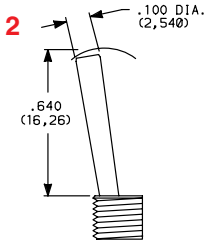
S1 .410" HIGH
(with "T" bushing)



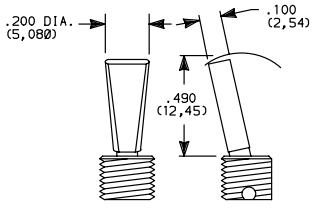
L .290" HIGH



L1 .640" HIGH



P3 ANTI-ROTATION, FLATTED,
.450" HIGH



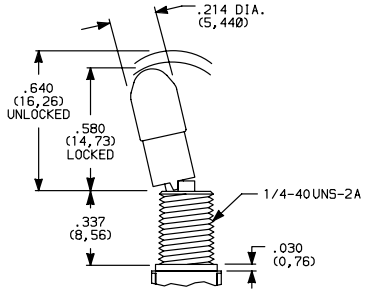
Available with T & T9 bushings only.
Dress nut part number 709901201
supplied standard with threaded bushing.

[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).

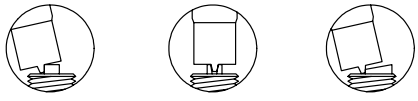
K LOCKING LEVER



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

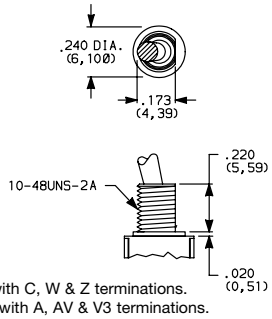
K actuators have natural aluminum finish.

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

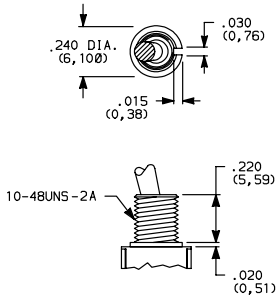
H9 .220" HIGH UNTHREADED, FLAT



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

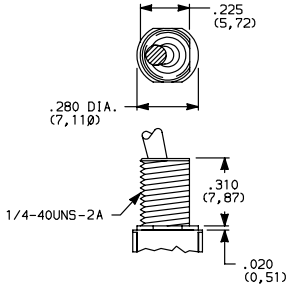
Y .220" HIGH THREADED, KEYWAY

Y9 .220" HIGH UNTHREADED, KEYWAY



T .310" HIGH THREADED, FLAT

T9 .310" HIGH UNTHREADED, FLAT



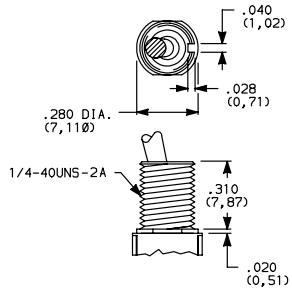
Third Angle Projection

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

T Series
Subminiature Toggle Switches

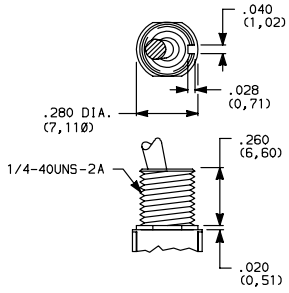
BUSHING

TK .310" HIGH THREADED, KEYWAY

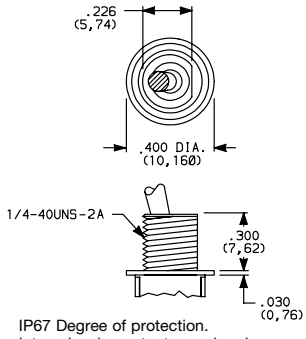


TD .260" HIGH THREADED, KEYWAY

D9 .260" HIGH UNTHREADED, KEYWAY



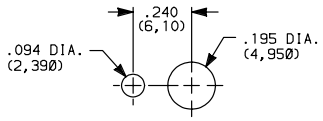
CF SPLASHPROOF, .310" HIGH THREADED, FLAT



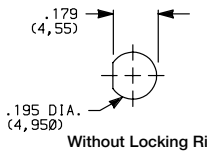
IP67 Degree of protection.
Internal o-ring actuator seal and external bushing seal washer standard.

Not available with K locking lever option.

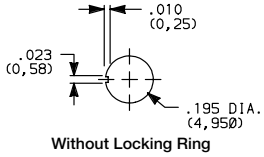
10-48 BUSHING



With Standard Locking Ring

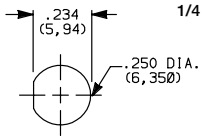


Without Locking Ring

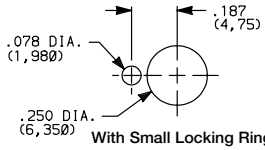


Without Locking Ring

PANEL MOUNTING

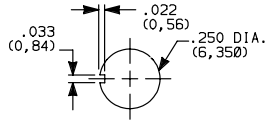


Without Locking Ring

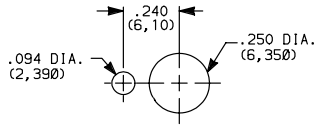


With Small Locking Ring

1/4 IN. BUSHING



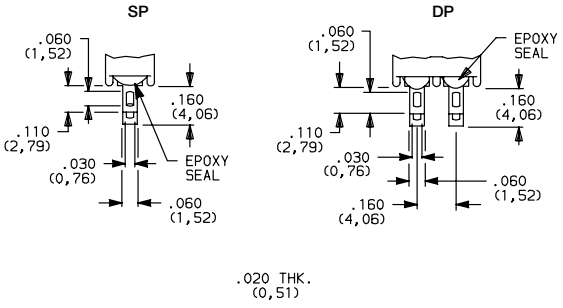
Without Locking Ring



With Standard Locking Ring

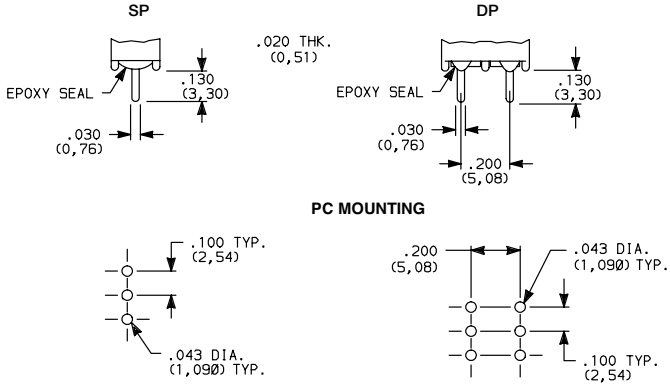
TERMINATIONS

Z SOLDER LUG



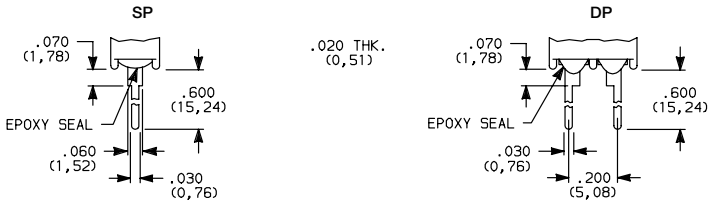
Not available with P or R contact materials.

C PC THRU-HOLE



T102 – omit center hole.

W WIRE WRAP

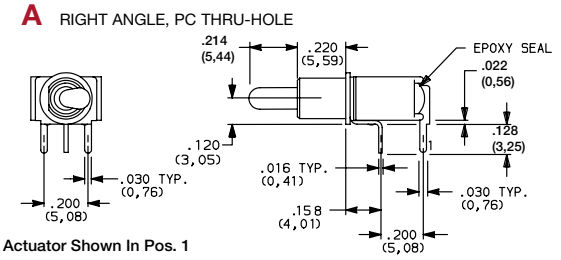


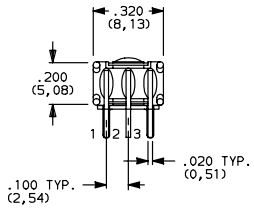
Third Angle Projection

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

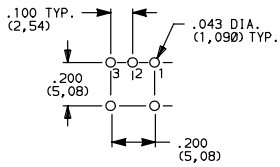
TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE





PC MOUNTING

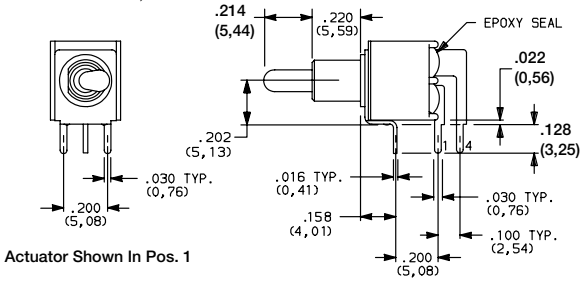


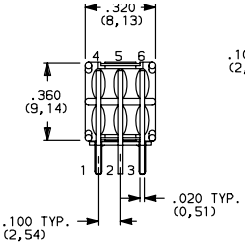
T101MH9ABE
Horizontal Actuation
SPDT

Actuator Shown In Pos. 1

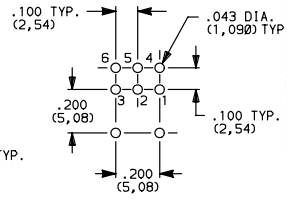
Not available with T102 model.

A RIGHT ANGLE, PC THRU-HOLE





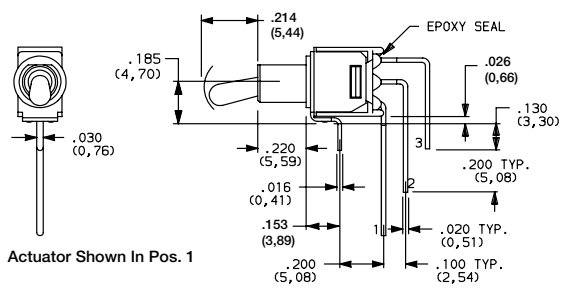
PC MOUNTING

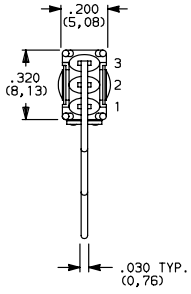


T201MH9ABE
Horizontal Actuation
DPDT

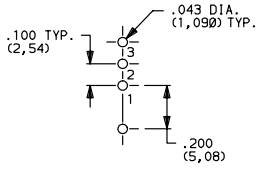
Actuator Shown In Pos. 1

AV VERTICAL RIGHT ANGLE, PC THRU-HOLE





PC MOUNTING



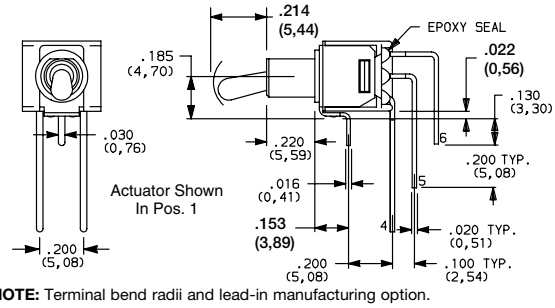
T101MH9AVBE
Vertical Actuation
SPDT

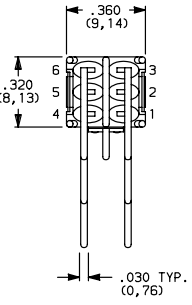
Actuator Shown In Pos. 1

T102 Models: Omit terminal 2

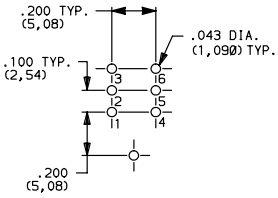
NOTE: Terminal bend radii and lead-in manufacturing option.

AV VERTICAL RIGHT ANGLE, PC THRU-HOLE





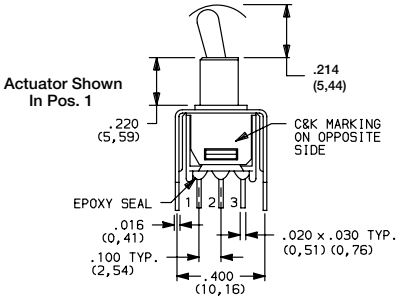
PC MOUNTING

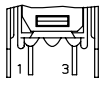


T201MH9AVBE
Vertical Actuation
DPDT

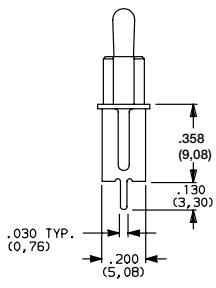
NOTE: Terminal bend radii and lead-in manufacturing option.

V3 VERTICAL MOUNT, V-BRACKET

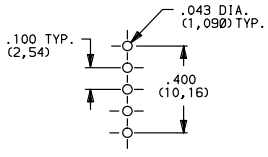




T102 Models:
Omit terminal 2



PC MOUNTING



T102 Models:
Omit center hole.

T101MH9V3BE
SPDT

Third Angle Projection

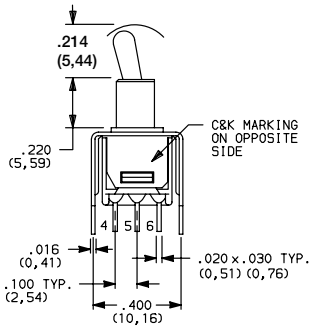
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

T Series
Subminiature Toggle Switches

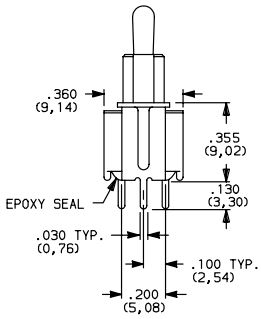
TERMINATIONS

V3 VERTICAL MOUNT, V-BRACKET

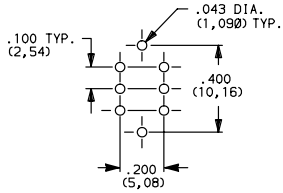
T201MH9V3BE
DPDT



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]		

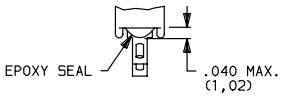
* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

[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

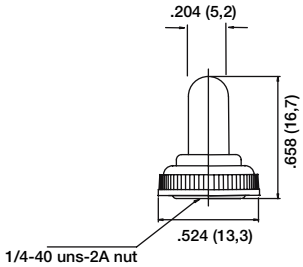
E EPOXY SEAL



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

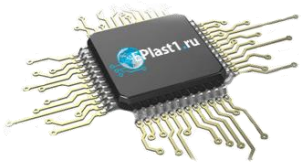
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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