Features/Benefits

- Subminiature size—capable of switching 1 AMP
- Vertical & right angle terminations
- PC & panel mount models
- Snap-in front panel mounting available
- Epoxy terminal seal-compatible with bottom wash cleaning
- RoHS compliant models available

Models Available

Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 1 AMP @ 120 V AC or 28 V DC. See page A-19 for additional ratings.

ELECTRICAL LIFE: TP11, TP21 MODELS: 60,000 make-and-break cycles at full load. TP12 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 Q, B, P, R 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.

Typical Applications

- Telecommunications and networking equipment
- Computers and peripherals
- Instrumentation and controls



Materials

CASE: Glass filled nylon 4/6 or 6/6, flame retardant, heat stabilized or diallyl phthalate (DAP), (UL 94V-0).

PLUNGER: Thermoplastic polyester (UL 94V-0).

CAP & FRAME: Nylon, black standard.

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 page A-19 for additional contact materials.

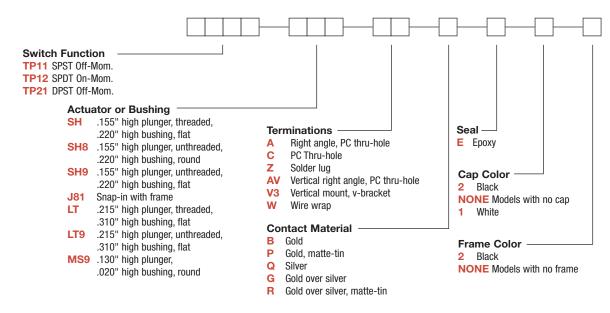
CENTER CONTACT & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page A-19 for additional contact materials.

TERMINAL SEAL: Epoxy. Refer to soldering and cleaning in Technical Data Chapter

HARDWARE: Nut & Locking Ring: Brass nickel plated. Lockwasher: Steel, nickel plated.

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 A-16 thru A-20. 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.

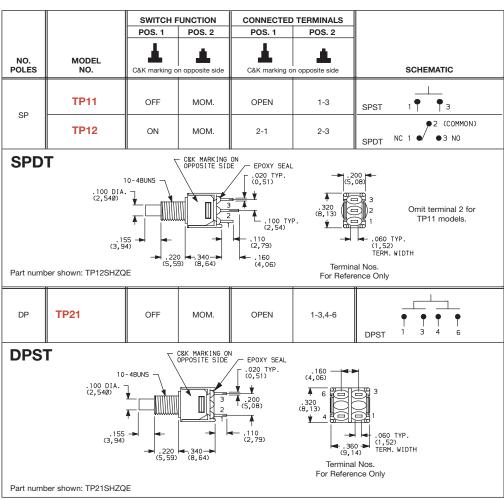




Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

Pushbutton >

SWITCH FUNCTION



MOM. = Momentary

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

ACTUATOR – SNAP-IN FRONT MOUNT -----

.600

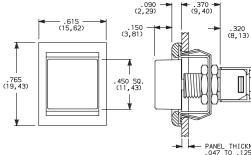
¥

.500 ->
(12,70)

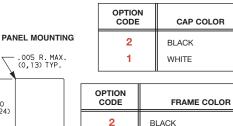
J81 SNAP-IN WITH FRAME



NOTE: Caps & frames available separately, see page A-20.



PANEL THICKNESS .047 TO .125 (1,19) (3,18)



2 BLACK NONE No Frame Color (J80 option)

Cap and Frame Finish: matte. Other colors available, consult Customer Service Center. NOTE: Available with Z, C, or W terminations.

> Third Anale \bigoplus Projection

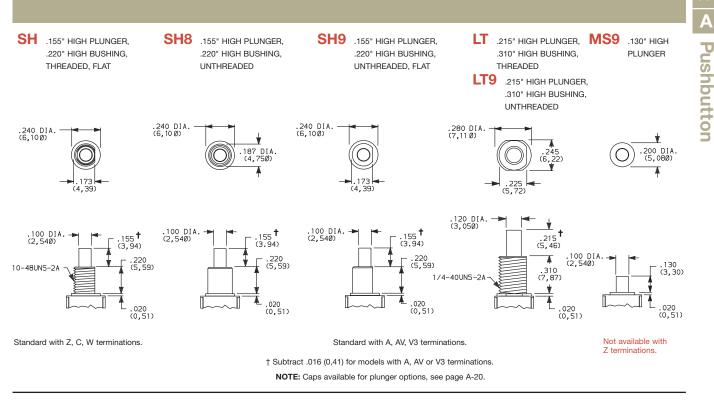


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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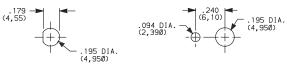


A



PANEL MOUNTING





Without locking ring

With standard locking ring

.250 DIA. (6,35Ø) Without locking ring

With standard locking rin

1/4 IN. BUSHING

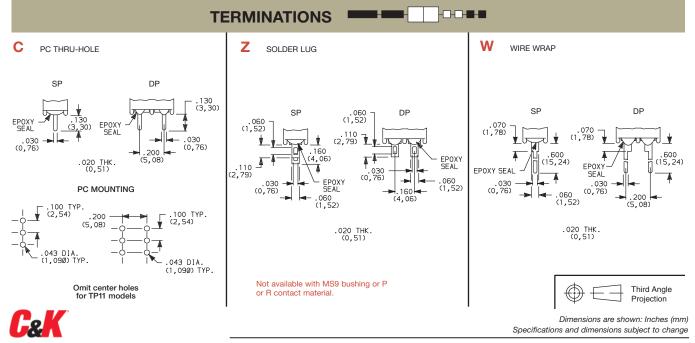
094 D1

.250 DIA (6.35Ø)

(2.390

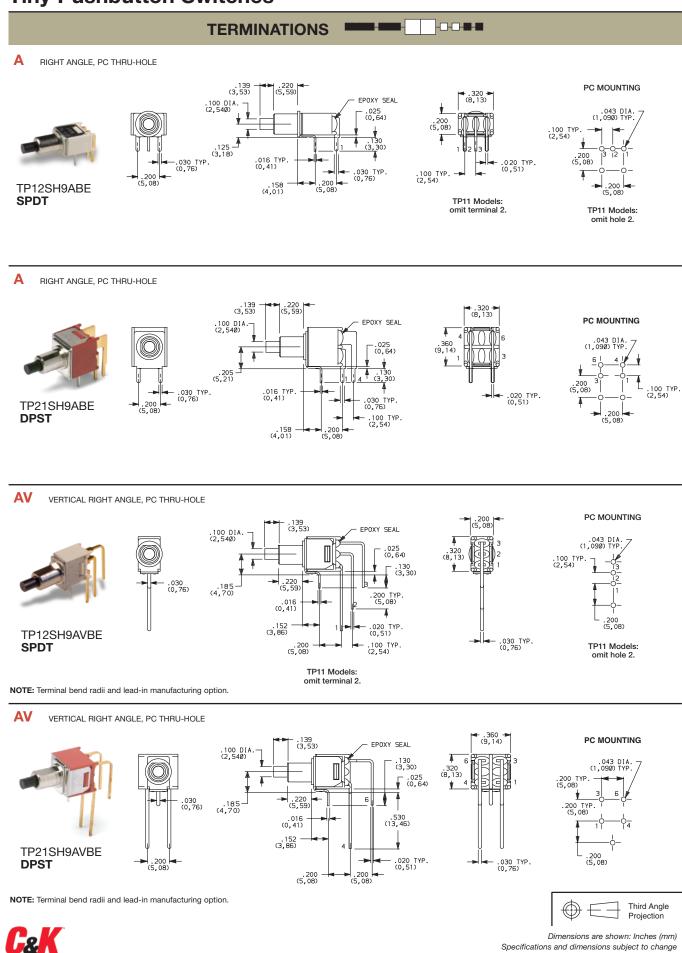
.234 (5,94)

NOTE: One mounting nut, locking ring and lockwasher supplied standard with 10-48 threaded bushings (two nuts with 1/4-40 bushings). Optional mounting nut and locking ring styles and finishes available separately, see section "Technical Data and Additional Hardware".



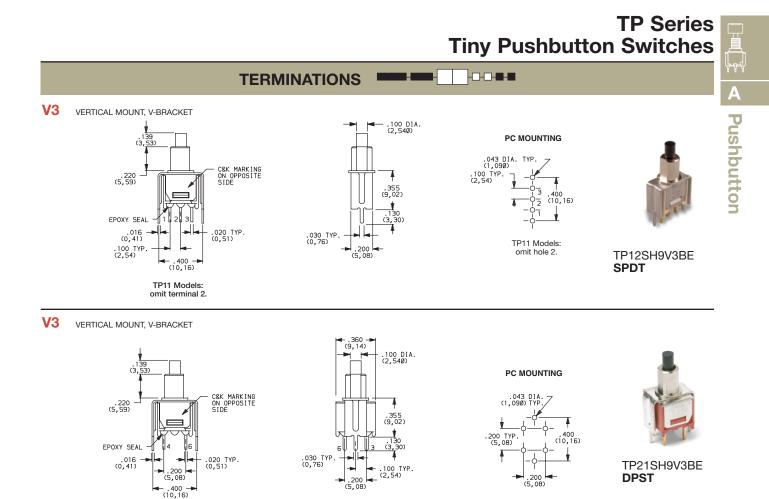
Pushbutton >

I



A-18

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| | OPTION CODE | CONTACT MATERIAL | TERMINAL PLATING | RATINGS | |
|--|----------------|---------------------------------|------------------------|--------------------------------|--|
| | B P | GOLD 1 | GOLD 1 | LOW LEVEL/DRY CIRCUIT | 0.4 VA MAX. @ 20 V AC OR DC MAX. |
| | | | MATTE-TIN ⁶ | | |
| | Q | SILVER 4,5 | SILVER 5 | POWER | 1 AMP @ 120 V AC OR 28 V DC. |
| | G | GOLD OVER SILVER ^{2,3} | GOLD ³ | LOW LEVEL/DRY CIRCUIT OR POWER | 0.4 VA MAX @ 20 V AC OR DC MAX. OR 1 AMP @ 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.

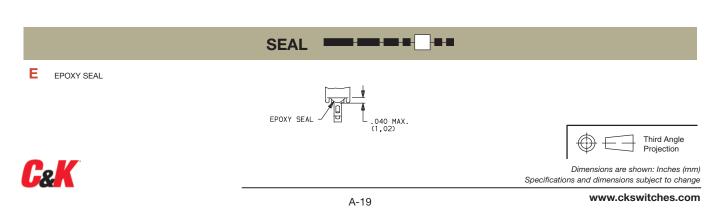
¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

- 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.

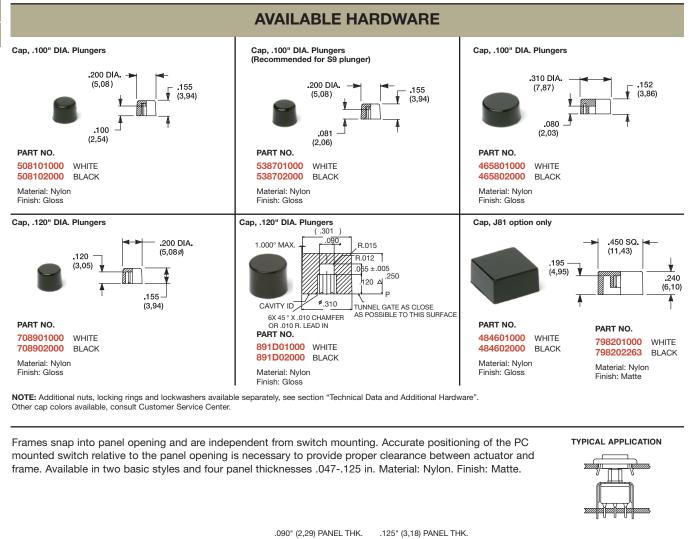
NOTE: Any models supplied with P, R, Q, B or G contact material are RoHS compliant.

All models **All** 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

P, R contact materials not available with Z terminations.



Pushbutton >





For part numbers

432502263, 432602263

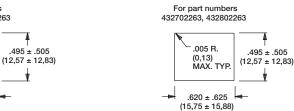
005 R

(0,13) MAX. TYP

.595 ± .605

PART NO. 432702263 PART NO. 432802263 BLACK

PANEL MOUNTING



(15,11 ± 15,37) Panel Inserts Above frames (part nos. 432XXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole LE.D. (.200 DIA. (5,080)) SNAPS SECURELY INTO INSERT (P/N 8949). HEIGHT DEPENDS ON L.E.D. USED. for LED) also available. LED not included. ANEL P/N 8949 PANEL W/O L.E.D. HOLE P/N 4766 PANEL INSERT BLANK PANEL INSERT WITH HOLE FOR LED WITHOUT HOLE FOR LED PART NO. PART NO. 43) 894902000 476602000 BLACK (19, Third Anale \bigoplus Projection Dimensions are shown: Inches (mm)



Specifications and dimensions subject to change www.ckswitches.com