Features/Benefits

- Process sealed with disposable splashproof boot
- Long life contact design
- Snap-fitting plunger available
- RoHS compliant models available



Models Available

Specifications

Materials

Typical Applications

Telecommunications and

Computers and peripherals

networking equipment

Instrumentation

CONTACT RATING: B contact material (EX25 Models): 0.4 VA max. @ 20 V AC or DC max. G contact material (EX21 Models): 1 AMP @120 V AC or 28 V DC or 0.4 VA max. @ 20 V AC or DC max. Note: Break-before-make contacts. Multi-pole contacts do not make and break simultaneously. See page A-26 for additional ratings.

ELECTRICAL LIFE: 60,000 make-and-break cycles at full load. CONTACT RESISTANCE: Below 50 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 75°C.

CAP INSTALLATION FORCE: 10 lbs. max. permissible.

SOLDERABILITY: Per MIL-STD-202F method 208D, or

EIA RS-186E method 9 (1 hour steam aging).

NOTE: Any models supplied with P, R, 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.

- CASE & BUSHING: Glass filled nylon 6/6, flame retardant (UL 94V-0).
- PLUNGER: Glass filled nylon or glass filled polyester (PBT) (UL 94V-0).

SWITCH SUPPORT: Brass or steel, matte-tin.

SWITCH SUPPORT RETAINER: Stainless steel.

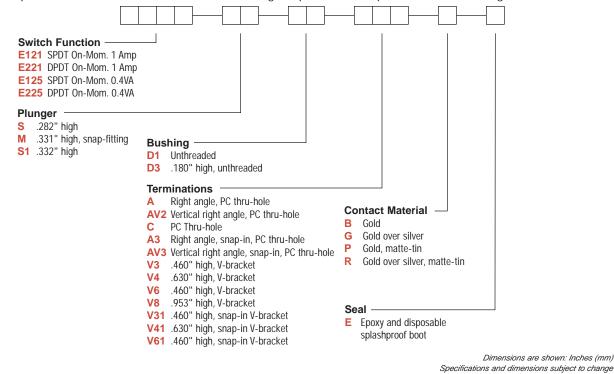
- N.O. & N.C. CONTACTS: EX25 MODELS: B contact material: Copper alloy, with gold plate over nickel plate. EX21 MODELS: G contact material: Coin silver, with gold plate over nickel plate. See page A-26 for additional contact materials.
- COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate. See page A-26 for additional contact materials.

TERMINAL SEAL: Epoxy.

DISPOSABLE BOOT: Vinyl splashproof boot supplied standard. Remove and discard only after soldering and cleaning processes are complete.

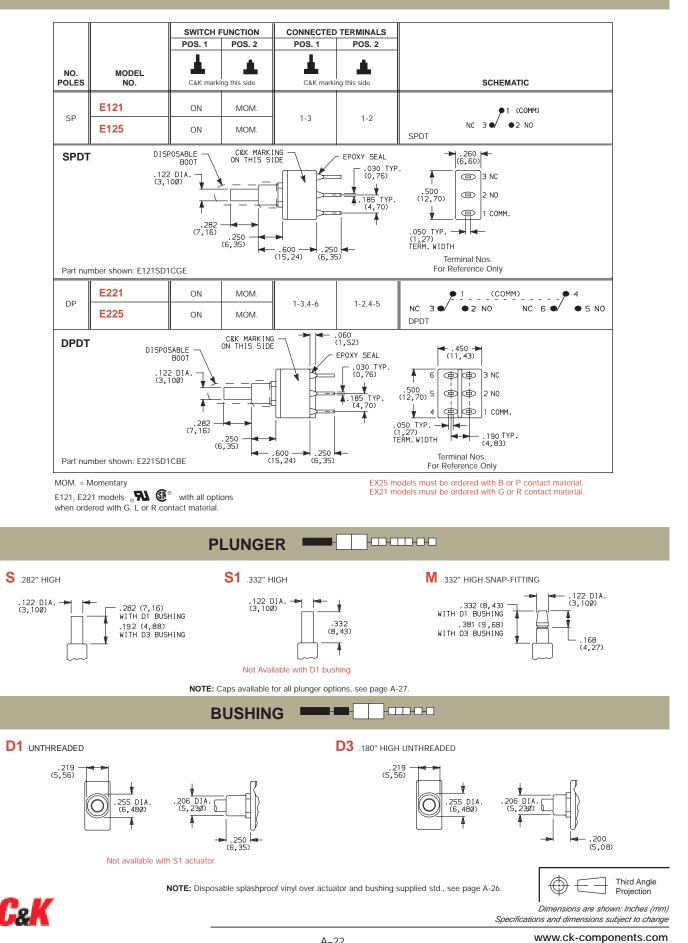
Build-A-Switch

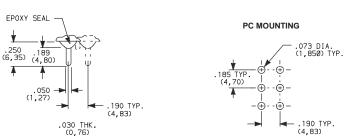
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-22 thru A-28. For additional options not shown in catalog, consult our Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.





SWITCH FUNCTION



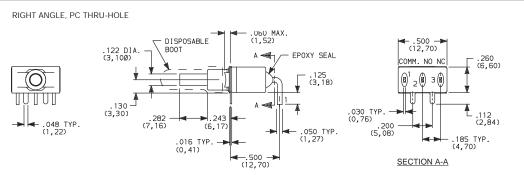


SPDT and DPDT

PC THRU-HOLE

С

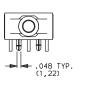
Α

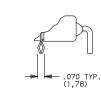


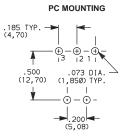


E121SD1AGE SPDT

A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE







PC MOUNTING

 $\oplus - \oplus$

.073 DIA (1,850) TYP

 $\odot - \odot -$

►. 200 (5,08) (3,81)

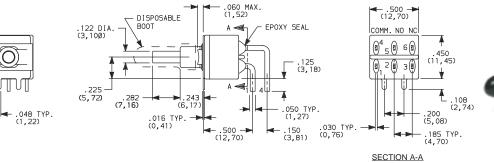
.185 TYP. (4,70)

> .500 (12,70)

> > ¥

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

A RIGHT ANGLE, PC THRU-HOLE





E221SD1AGE DPDT

A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE









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

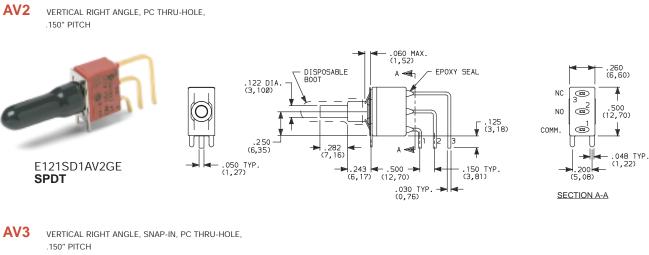
U

Third Angle

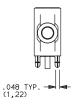
Projection

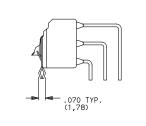
TERMINATIONS

Pushbutton >

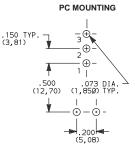


AV3



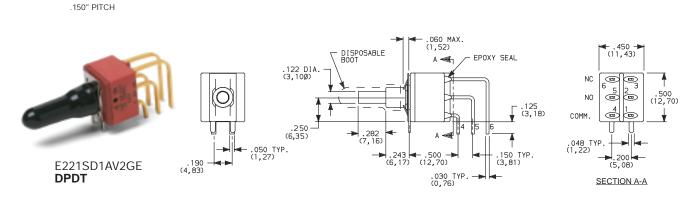


7-0-0



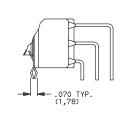
NOTE: Terminal bend radii and lead-in manufacturing option.

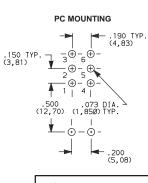
VERTICAL RIGHT ANGLE, PC THRU-HOLE,



AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH







Third Angle Projection Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

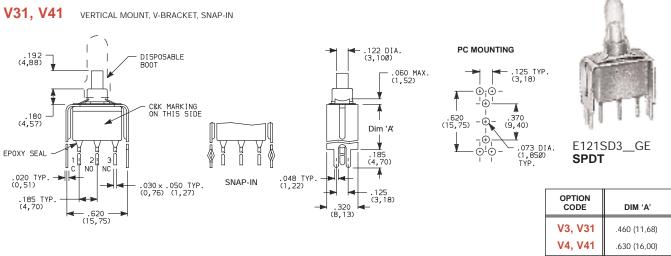
NOTE: Terminal bend radii and lead-in manufacturing option.



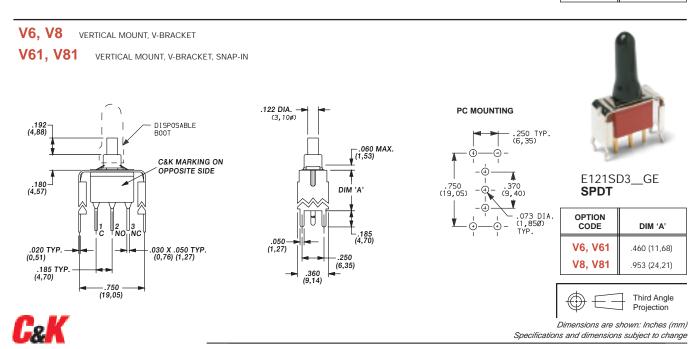
AV2

TERMINATIONS

V3, V4 VERTICAL MOUNT, V-BRACKET



V3, V4 VERTICAL MOUNT, V-BRACKET V31, V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN PC MOUNTING ⊢.450 ÷ (11,43) .125 (3,18) .192 (4,88) DISPOSABLE BOOT .122 DIA. (3,100) .060 MAX. (1,52) .370 (9,40) • 🕀 (15 C&K MARKING ON THIS SIDE A ¥ .180 (4,57) E221SD3_GE .073 DIA. (1,850) TYP. Dim 'A' DPDT .190 TYP. (4,83) .185 (4,70) EPOXY SEAL Ŵ 5 ĺ 6 [] NC || 0 4 .020 TYP (0,51) OPTION SNAP-IN .048 TYP .030 x .050 TYP. (0,76) (1,27) CODE DIM 'A' .125 (3,18) .185 TYP (4,70) .320 (8,13) V3, V31 .460 (11,68) - .620 -(15,75) V4, V41 .630 (16,00)



Pushbutton

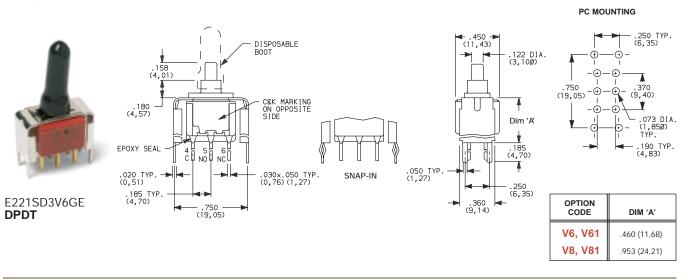
₿₽₹

Α

TERMINATIONS

V6, V8 VERTICAL MOUNT, V-BRACKET

V61, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD ¹	GOLD 1	LOW LEVEL/DRY CIRCUIT	EX25 MODELS ONLY: 0.4 VA MAX. @ 20 V AC OR DC MAX.
Р		MATTE-TIN ⁴		
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	EX21 MODELS ONLY: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 1 AMP @ 120 V AC OR 28 V DC.
R		MATTE-TIN ⁴		

* 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 N.O. AND N.C. CONTACTS: Coin silver, with gold plate over nickel plate.
- ³ COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- ⁴ TERMINALS: Copper alloy, with matte-tin alloy over nickel plate.

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

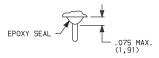
E121, E221 models ${}_{\scriptscriptstyle \otimes} {old N} \, \textcircled{6}^{\circ}$ with all options when ordered with mandatory G, R or L contact material.

P or B contact material must be ordered with EX25 models. R or G contact material must be ordered with EX21 models.

K, L and M options represent Non RoHS tin lead product and are not recommended for new designs. For additional information please contact Customer Service.

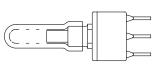


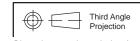
E EPOXY SEAL AND DISPOSABLE SPLASHPROOF BOOT



CeK

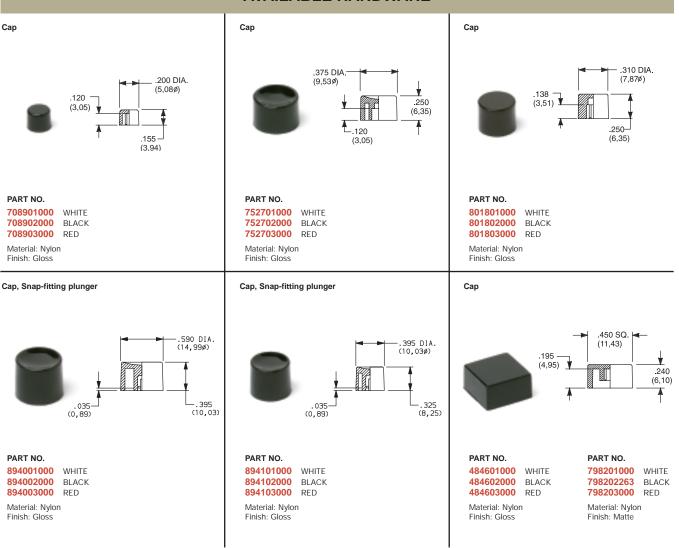
Disposable splashproof boot supplied standard. -Remove and discard boot *only after* soldering and cleaning processes are complete.





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

AVAILABLE HARDWARE



NOTE: Other cap colors available, consult Customer Service Center.

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC TYPICAL APPLICATION mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte. Y THE PARTY OF THE .047" (1.19) PANEL THK. .062" (1.57) PANEL THK. .090" (2,29) PANEL THK. .125" (3.18) PANEL THK PART NO. PART NO. PART NO. PART NO. 432501000 432601000 432701000 432801000 WHITE 432502263 432602263 432702263 432802263 BLACK 432503000 432603000 432703000 432803000 RFD PANEL MOUNTING For part numbers For part numbers 4325xxxxx, 4326xxxxx 4327xxxxx, 4328xxxxx .005 R. .005 R. .495 ± .505 (12,57 ± 12,83) 495 ± .505 (0,13) MAX. TYP (0,13) MAX. TYP $(12,57 \pm 12,83)$.595 ± .605 $.620 \pm .625$



Specifications and dimensions subject to change

Dimensions are shown: Inches (mm)

U

(15,75 ± 15,88)

Third Anale

Projection

₽₽₹

Α

Pushbutton

(15,11 ± 15,37)

AVAILABLE HARDWARE

PANEL INSERTS

Pushbutton >

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 for LED) also available. **LED not included**.



Special colors, custom markings available, consult Customer Service Center.





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