Features/Benefits

- Sealed against solder & cleaning processes
- Thru-hole and surface mount models
- Snap-fitting actuator accepts standard caps
- Tape & reel packaging available
- RoHS compliant models available



Models Available

Specifications

- CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. See page A-13 for additional ratings.
- ELECTRICAL LIFE: EP11, EP21 models: 60,000 make-and-break cycles at full load. EP12 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).
- DEGREE OF PROTECTION: IP57; Protection against harmful dust deposit, full-scale voltage protection, temporary immersion.
- PACKAGING: Surface mount switches standard in anti-static tape and reel packaging per EIA 481-3, see page A-14 for drawings and reel information. Tape and cover strip are conductive for use near statically sensitive components, consult Customer Service Center.

Typical Applications

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



Materials

- CASE & BUSHING: High temperature material, glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0) on EP11 / EP12 models; glass filled nylon 6/6 on EP21.
- PLUNGER: Thermoplastic polyester or glass filled nylon (UL 94V-0), with internal o-ring seal. SA surface mount: High temperature material, glass filled LCP (UL 94V-0).

SWITCH SUPPORT: Brass, matte-tin plated.

CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. See page A-13 for additional contact materials.

TERMINAL SEAL: Epoxy.

NOTE: Any models supplied with Q, B, P, S, 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.

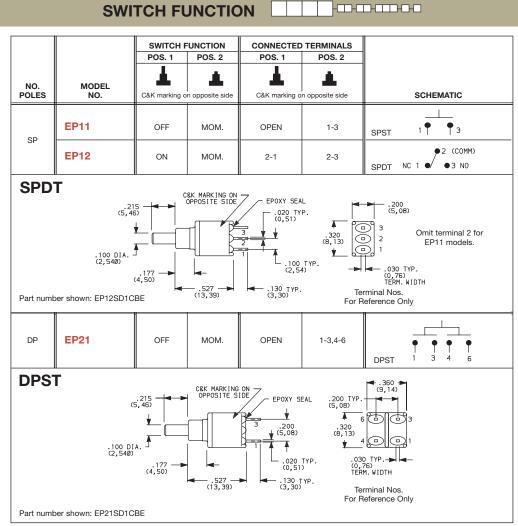
CAUTION: PC mounting layouts and pads as shown are designed to be compatible with the latest equipment and reflow techniques. Care should be taken in the design and location of PC lands to suit individual needs. Orientation relative to reflow direction may significantly impact solder joint integrity.

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-10 thru A-14. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.

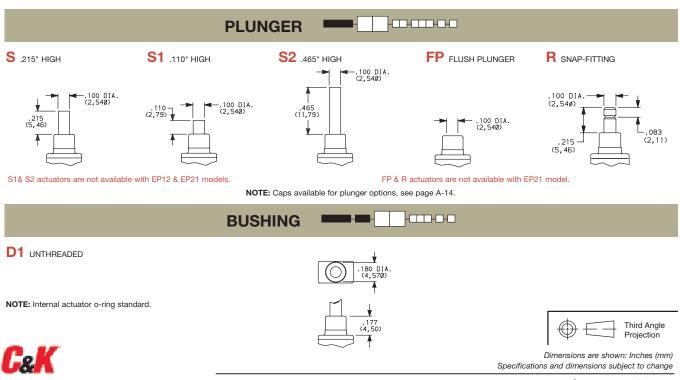
Switch Function — EP11 SPST Off-Mom. EP12 SPDT On-Mom. EP21 DPST Off-Mom.	Plunger S .215" high S1 .110" high S2 .465" high FP Flush R Snap-fitting, .215 high Bushing D1 Unthreaded	Seal — E Epoxy
	TerminationsARight angle, PC thru-holeCPC Thru-holeAVVertical right angle, PC thru-holeAV3Vertical right angle, snap-in, PC thru-holeSARight angle, surface mountSA1Right angle, surface mount rear facingV3Vertical mount, v-bracketV31Vertical mount, v-bracket, snap-in (EP11 & EP12 only)WWire wrap	Contact Material B Gold P Gold, matte-tin Q Silver S Silver, matte-tin G Gold over silver R Gold over silver, matte tin





MOM. = Momentary

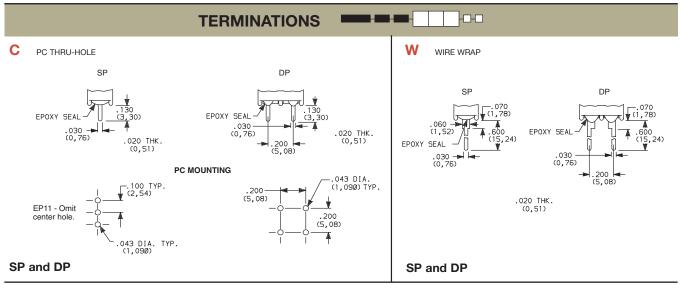
All models and the second seco



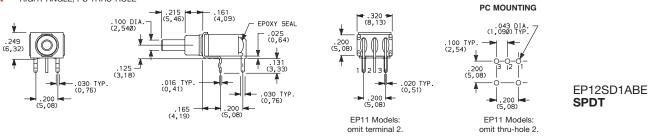
A-10

A

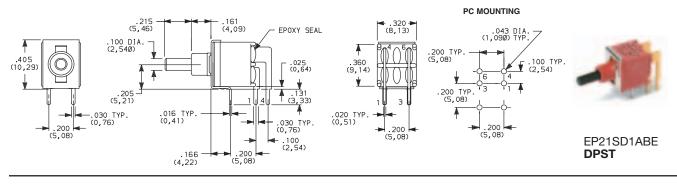
Pushbutton



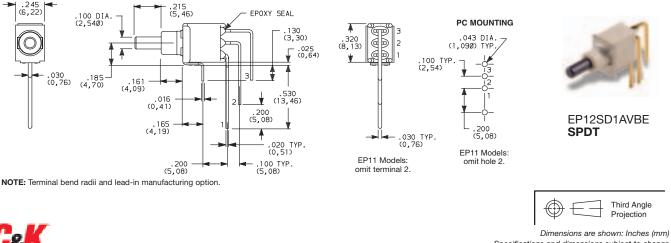
Α RIGHT ANGLE, PC THRU-HOLE



Α RIGHT ANGLE, PC THRU-HOLE

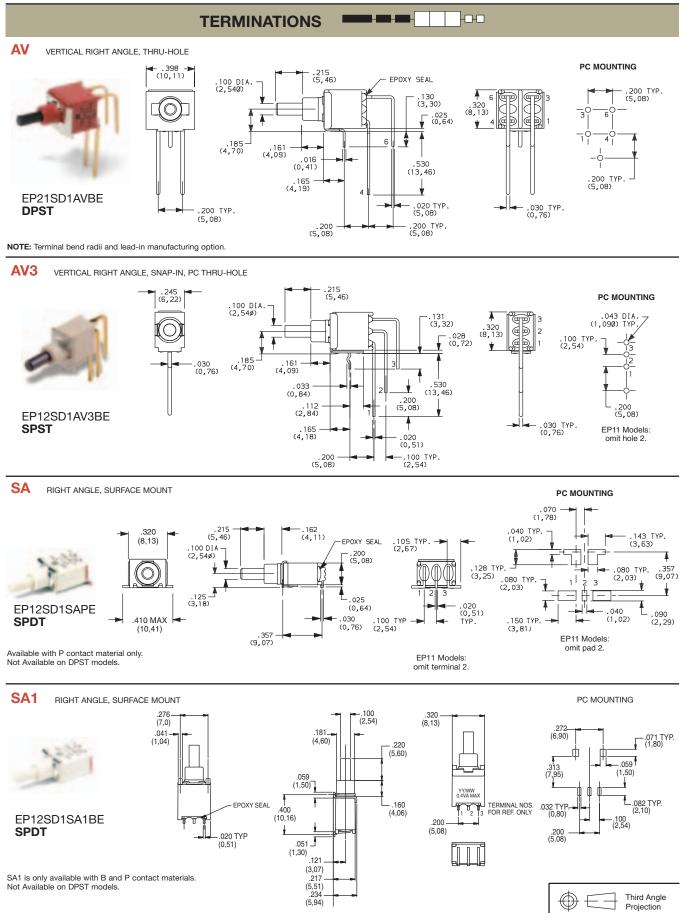


AV VERTICAL RIGHT ANGLE, PC THRU-HOLE





Specifications and dimensions subject to change



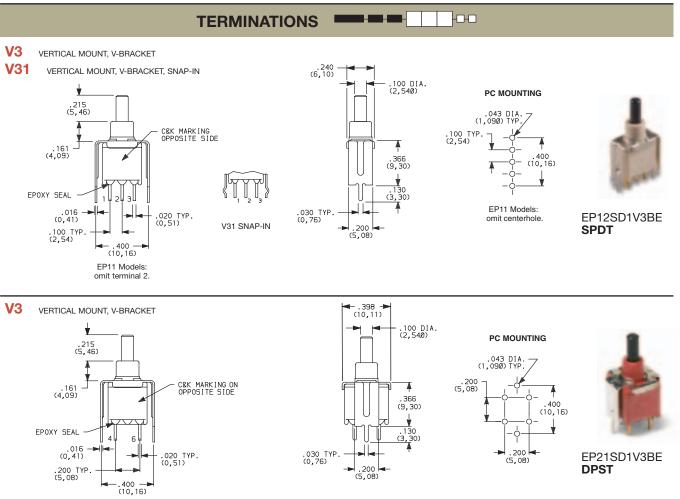


Specifications and dimensions subject to change

6

A

Pushbutton



CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD ¹	GOLD 1	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Р		MATTE-TIN ⁶		
Q	SILVEB ^{4,5}	SILVER 5	2011/52	1 AMP @ 120 V AC OR 28 V DC.
S	OILVEN A	MATTE-TIN ⁶	POWER	
G		GOLD ³	LOW LEVEL/DRY	0.4 VA MAX @ 20 V AC OR DC MAX. OR
R	GOLD OVER SILVER ^{2,3}	MATTE-TIN ⁶	CIRCUIT OR POWER	1 AMP @ 120 V AC OR 28 V DC.

* 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.

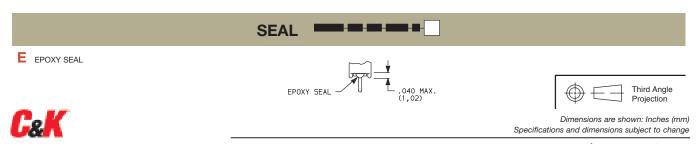
⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

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

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

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All models Reference with G, S, R or Q contact material.





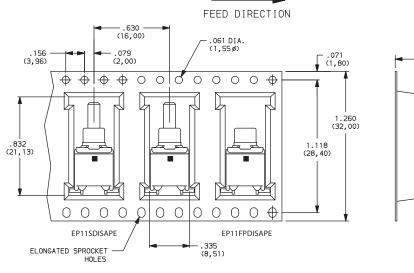
Not for use on S1 plunger

NOTE: Other colors available, consult Customer Service Center.

TAPE & REEL

-.274 (6,96)



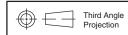


Not for use on S1 plunger

REEL INFORMATION			
OUTSIDE DIAMETER	13.00 (330,0)		
PILOT HOLE	.512 (13,0)		
QUANTITY PER REEL	600		

-.155 (3,94)

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



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