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-11 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 mΩ 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-12 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: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0). SA surface mount: High temperature material, glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0).
- PLUNGER: Thermoplastic polyester or glass filled nylon (UL 94V-0), with internal o-ring seal. SA surface mount: High temperature material, glass filled nylon 4/6, flame retardant, heat stabilized (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-11 for additional contact materials.

TERMINAL SEAL: Epoxy.

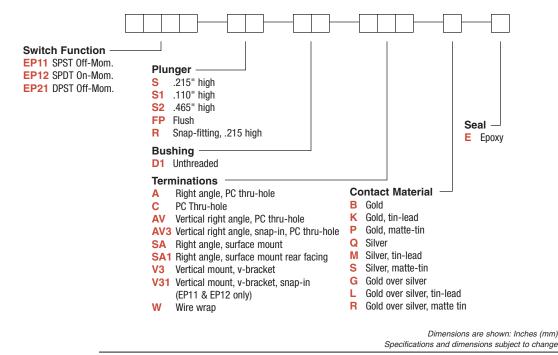
NOTE: Any models supplied with Q, B, P, S, R or G contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

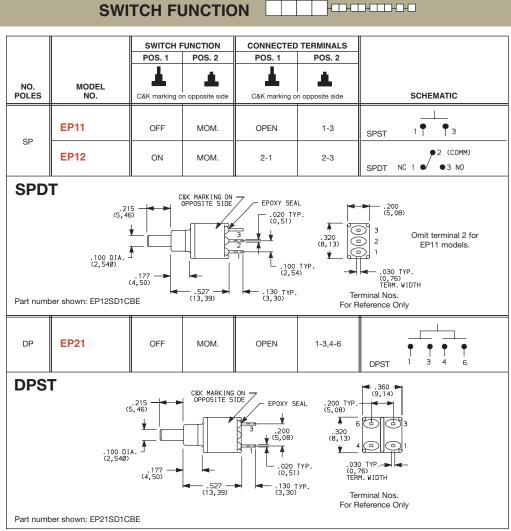
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

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

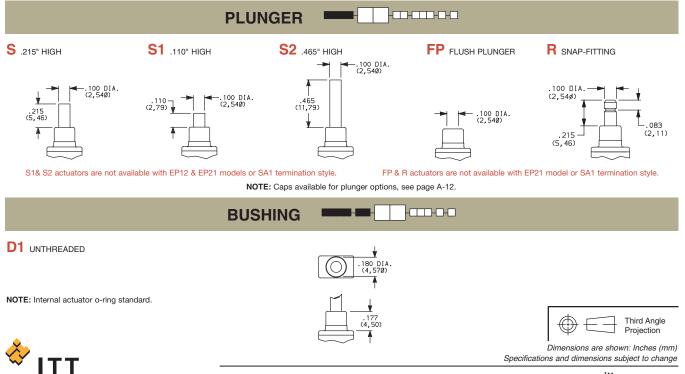
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-8 thru A-11. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.





MOM. = Momentary

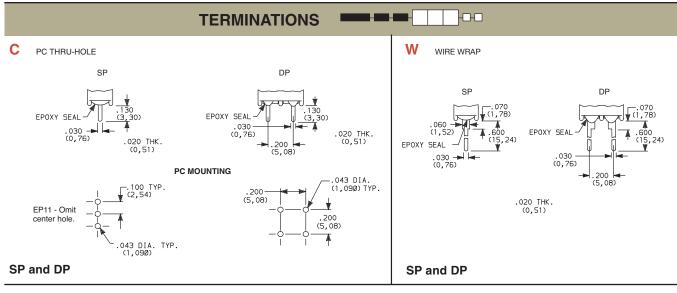
All models Reference with G, L, M or Q contact material.



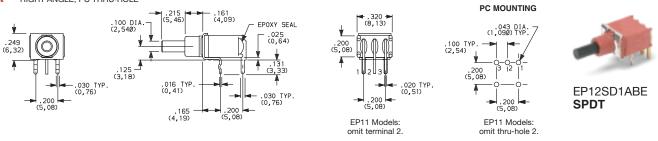
A-8

₿¢₹

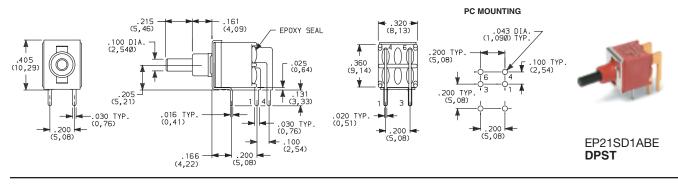
Pushbutton



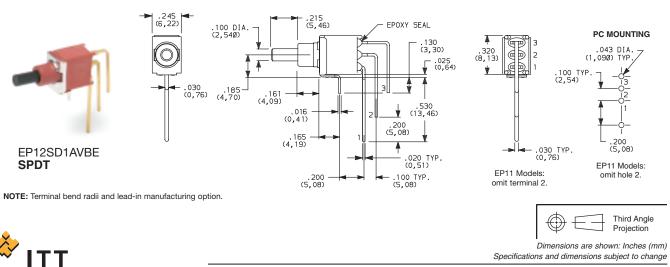
A RIGHT ANGLE, PC THRU-HOLE

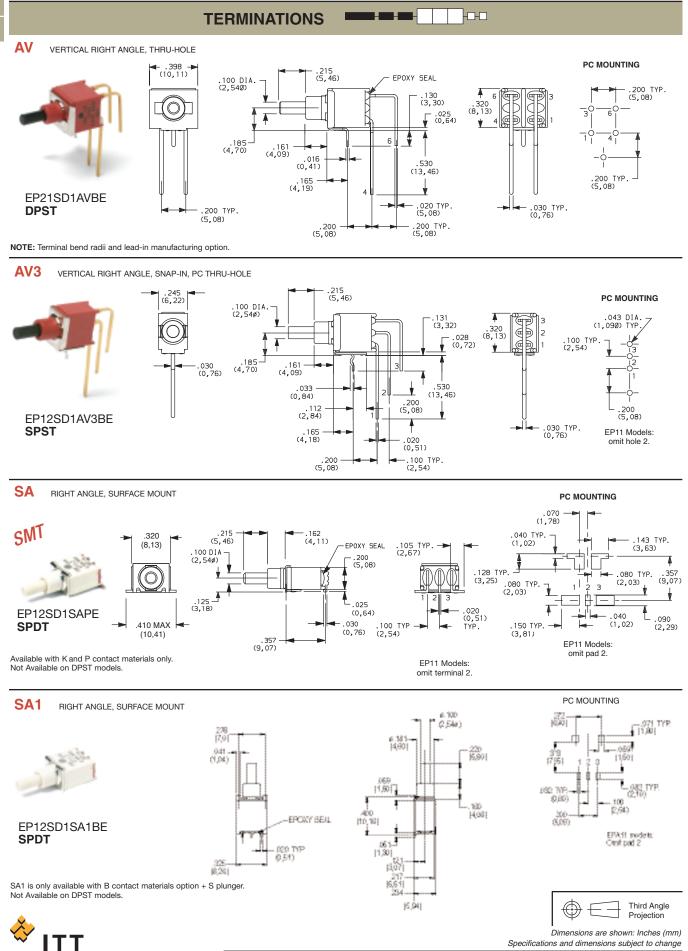


A RIGHT ANGLE, PC THRU-HOLE



AV VERTICAL RIGHT ANGLE, PC THRU-HOLE





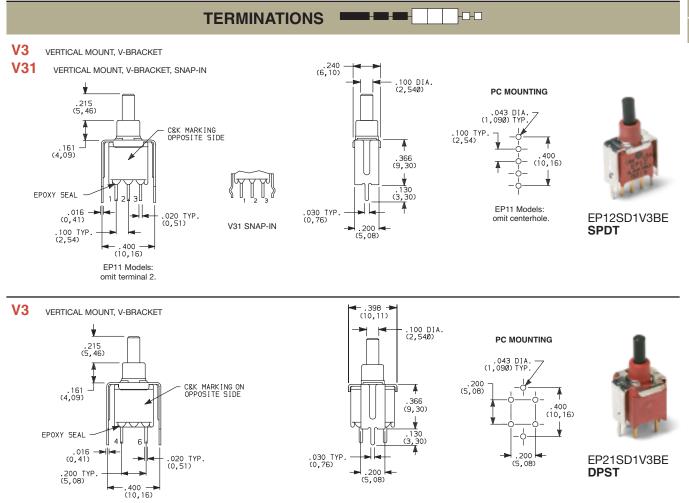
Pushbutton >

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A-10

www.ittcannon.com

Specifications and dimensions subject to change



CONTACT MATERIAL

		Η	-0	

OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	CONTACT MATERIAL	TERMINAL PLATING	RATINGS		
В	YES	YES		GOLD ¹			
K	NO	YES	GOLD 1	TIN-LEAD 6	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.	
Р	YES	YES		MATTE-TIN 7			
Q	YES	YES		SILVER 5			
М	NO	YES	SILVER ^{4,5}	TIN-LEAD 6	POWER	1 AMP @ 120 V AC OR 28 V DC.	
S	YES	YES		MATTE-TIN 7			
G	YES	YES		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.	
L	NO	YES	GOLD OVER SILVER 2,3	TIN-LEAD 6			
R	YES	YES		MATTE-TIN 7			

* 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.

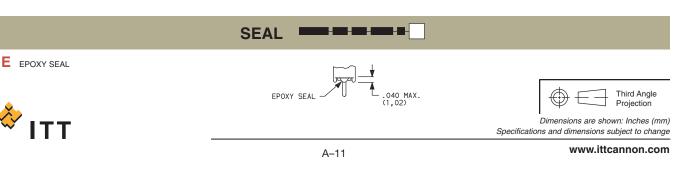
⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

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

⁷ TERMINALS: Copper alloy, with matte tin over nickel plate.

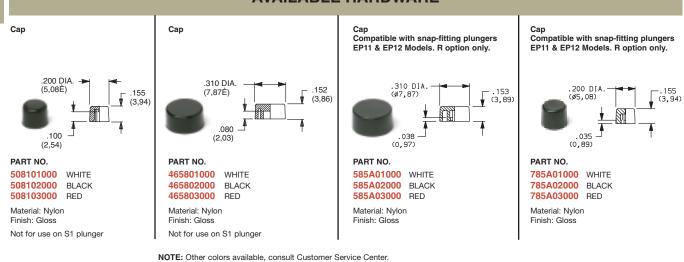
NOTE: Any models supplied with Q, B P, S ,R or G contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

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



<u>}</u>

AVAILABLE HARDWARE

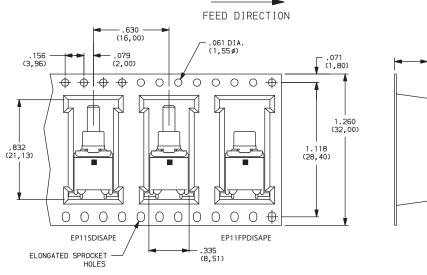


TAPE & REEL

-.274 (6,96)

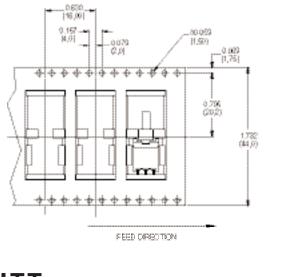
For part number EPXX-SA

Pushbutton >



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

For part number EPXX-SA1





REEL INFORMATION				
OUTSIDE DIAMETER	13.00 (330,0)			
PILOT HOLE	.795 (20,20)			
QUANTITY PER REEL	500			



Specifications and dimensions subject to change

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(1.297)(7.65)

0.014

0.996 (25,30)