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

Typical Applications

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





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 mΩ9 typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 109 Ω9 min.

DIELECTRIC STRENGTH: 1000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°9C to 859°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.

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.

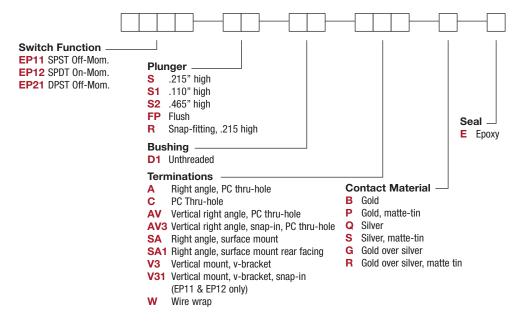
NOTE: Any models supplied with Q, B, P, S, R or G contact material are RoHS compliant.

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

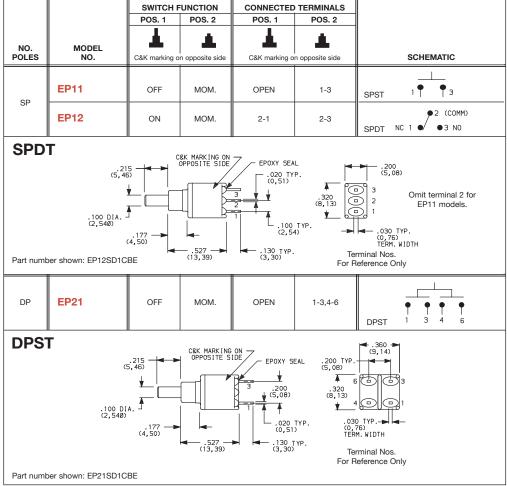
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-10 thru A-14. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.



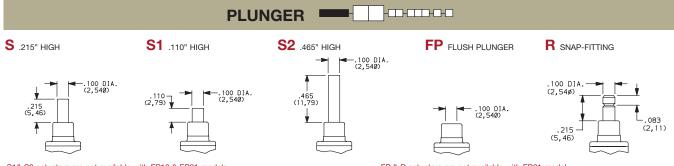
A-9

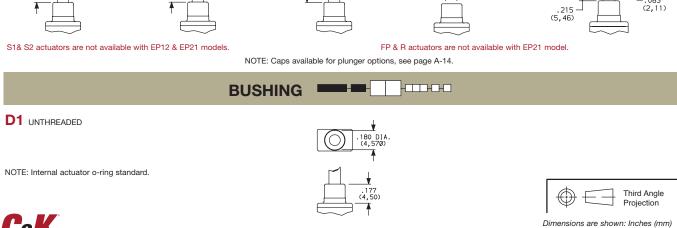


SWITCH FUNCTION

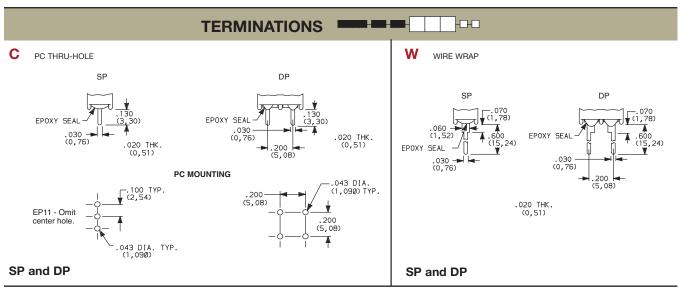


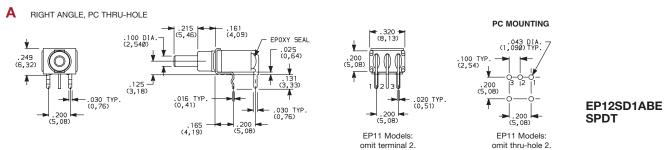
with all options when ordered with G, Q, R or S contact material.



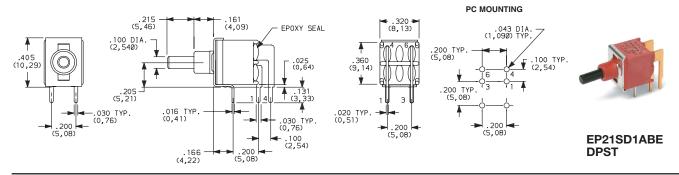




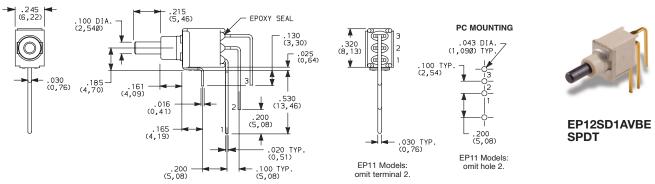




RIGHT ANGLE, PC THRU-HOLE



VERTICAL RIGHT ANGLE, PC THRU-HOLE



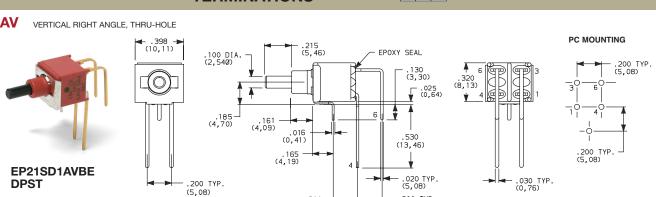
NOTE: Terminal bend radii and lead-in manufacturing option.



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



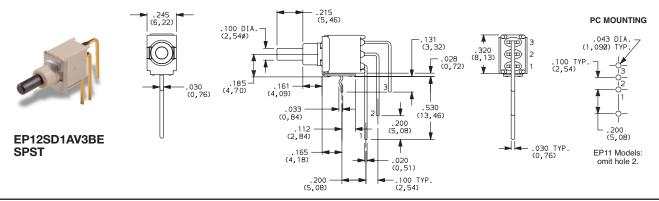
TERMINATIONS

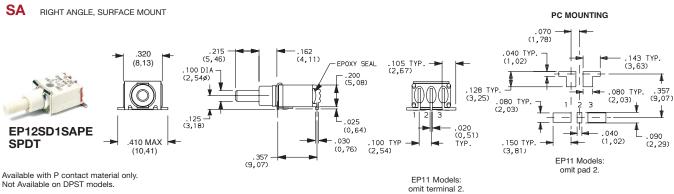


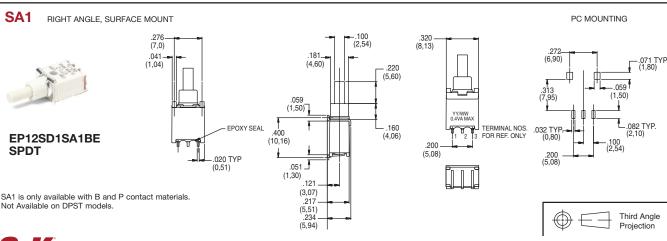
.200

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

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







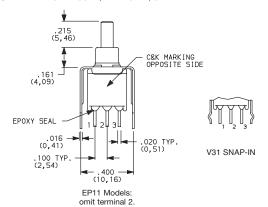


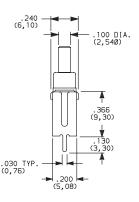
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

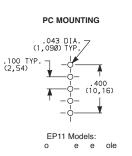
TERMINATIONS

V3 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN

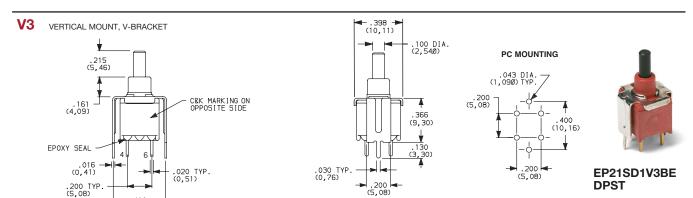








EP12SD1V3BE **SPDT**



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	SILVER ^{4,5}	SILVER 5	POWER	1 AMP @ 120 V AC OR 28 V DC.
S		MATTE-TIN ⁶	POWEN	TAIVIF @ 120 V AC ON 20 V DC.
G	GOLD OVER SILVER ^{2,3}	GOLD ³ MATTE-TIN ⁶	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				

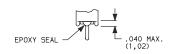
^{*} Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

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

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









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



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

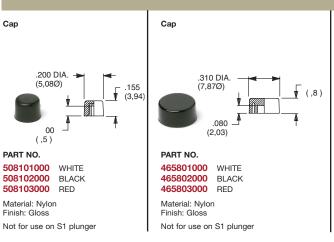
² END CONTACTS: Coin silver, with gold plate over nickel plate. ³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

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.

AVAILABLE HARDWARE



Compatible with snap-fitting plungers EP11 & EP12 Models. R option only. .310 DIA. (ø7,87) (3,89)

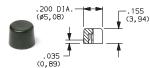
.038

PART NO.

585A01000 WHITE 585A02000 BLACK 585A03000 RED

Material: Nylon Finish: Gloss

Cap Compatible with snap-fitting plungers EP11 & EP12 Models. R option only.



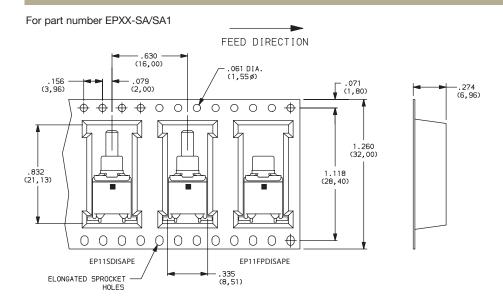
PART NO.

785A01000 WHITE 785A02000 BLACK 785A03000 RED

Material: Nylon Finish: Gloss

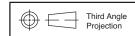
NOTE: Other colors available, consult Customer Service Center.

TAPE & REEL



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





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MDPSSGLFS 810KSV30B FLT 2U EE 01A MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL

8646ABUL FSDWH 9001KXRK 9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL

ABD122N-B 1211390004 ABN111-Y ABN400-R 1211500044 1211580012 1212MRA 1232A6NF RA3CSH6A 1241.1183.7047

1241.2511 1241.3428 1223A2ULCSA 1223MRA 1232AX2119 1241.1183.8000 1241.1183.8029 1241.2506 1241.2606 12MA6

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