# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

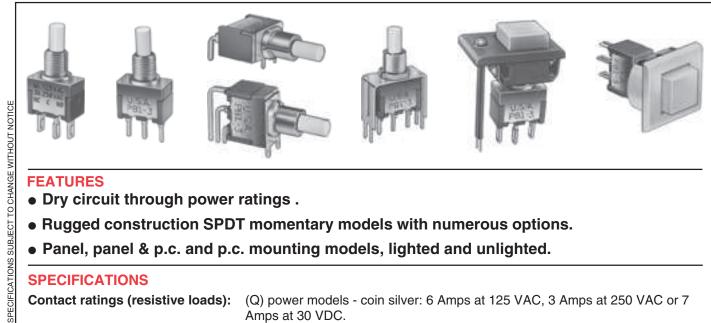
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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#### **FEATURES**

- Dry circuit through power ratings .
- Rugged construction SPDT momentary models with numerous options.
- Panel, panel & p.c. and p.c. mounting models, lighted and unlighted.

#### **SPECIFICATIONS**

Contact ratings (resistive loads):	<ul> <li>(Q) power models - coin silver: 6 Amps at 125 VAC, 3 Amps at 250 VAC or 7 Amps at 30 VDC.</li> <li>(B) dry circuit models - gold over nickel over brass: 0.4 VA max. at 20 V max. UL models - coin silver: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor). UL file no. E66367. CSA models - coin silver: same ratings as UL models. CSA file no. LR54592-1.</li> </ul>
Initial contact resistance:	5 milliohms max. at 3 VDC, 0.1 Amp.
Insulation resistance:	Greater than 200,000 megohms between terminals & case ground.
Dielectric strength:	Greater than 2000 VAC for 1 minute between terminals & case ground.
Electrical life (resistive loads):	100,000 cycles min. at full load.
Operating temperature range:	-30°C to +85°C
Total travel & operating force:	.065" (1.6mm) & 19 oz. (approximate values ).

#### **MATERIALS**

Contacts:	Coin silver for power, UL & CSA models. Gold over nickel over brass for dry circuit models.
Actuator:	Glass filled polyester, color white
Bushing:	Nickel plated brass
Strap:	Stainless steel
Case:	Melamine phenolic, color red
Terminal seal:	Epoxy (optional)
Support bracket:	Brass or steel, tin plated
Spring mounting bracket:	Stainless steel
Bezel & cap:	Nylon. Available in black, red or white. Consult factory for other colors.
Hardware:	See 'Miscellaneous' section.
LED:	Intensity: 2.0 mcd at 10 mA. Forward voltage: 2.0V (3.0V max.). Max. contin- uous forward current: 15 mA for red, 30 mA for green & 20 mA for yellow. Red is standard. Yellow & green are optional. Specifications are subject to change without notice - consult factory.

#### **AGENCY RECOGNITION**

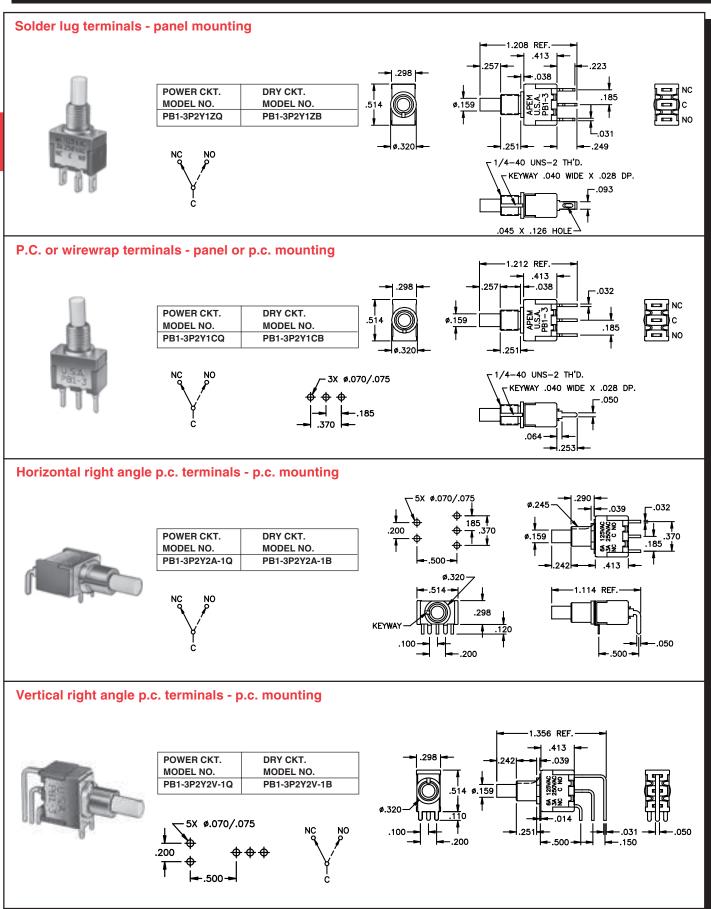
SP

UL, & CSA. Marking: Switches ordered with '/UL' added at end of model no. are supplied with recognition marked. Switches ordered with '/CSA' added at end of model no. are supplied with recognition marked.

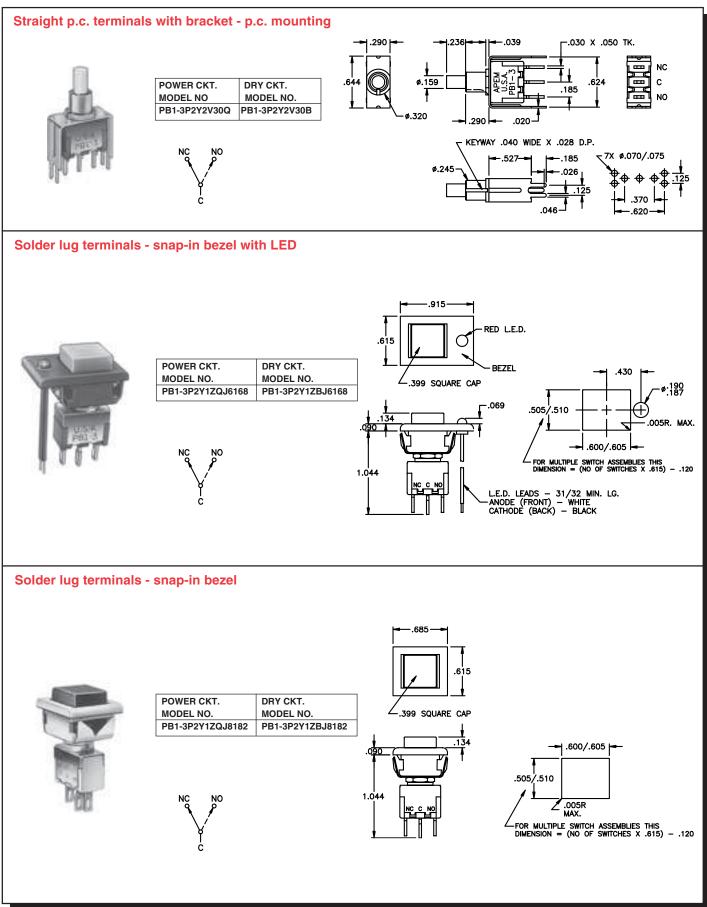
#### **ABOUT THIS SERIES**

The material in this series is organized in the following sequence:

- a. Completely specified switch models b. 'build your own switch' order format c. Miscellaneous
- d. Option drawings & information e. Panel cut-outs & miscellaneous



C66 APEM, PO BOX 8288, HAVERHILL, MA USA 01835-0788 TOLL FREE: (877) 246-7890 FAX: (781) 245-4531 E-mail: info@apem.com

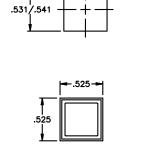






С

DRY CKT.
MODEL NO.
PB1-3P2Y1CBJ8488

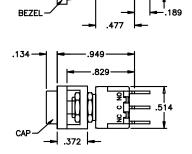


.531/541

NO

.399 SQUARE

NC



0/.075

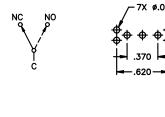
5X Ø.070/.075

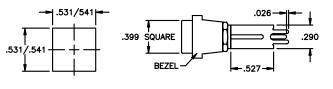
.185

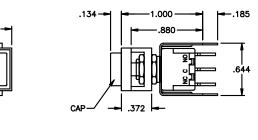
#### Straight p.c. terminals with bracket - p.c. mounting bezel



POWER CKT.	DRY CKT.
MODEL NO.	MODEL NO.
PB1-3P2Y1V30QJ8488	PB1-3P2Y1V30BJ8488

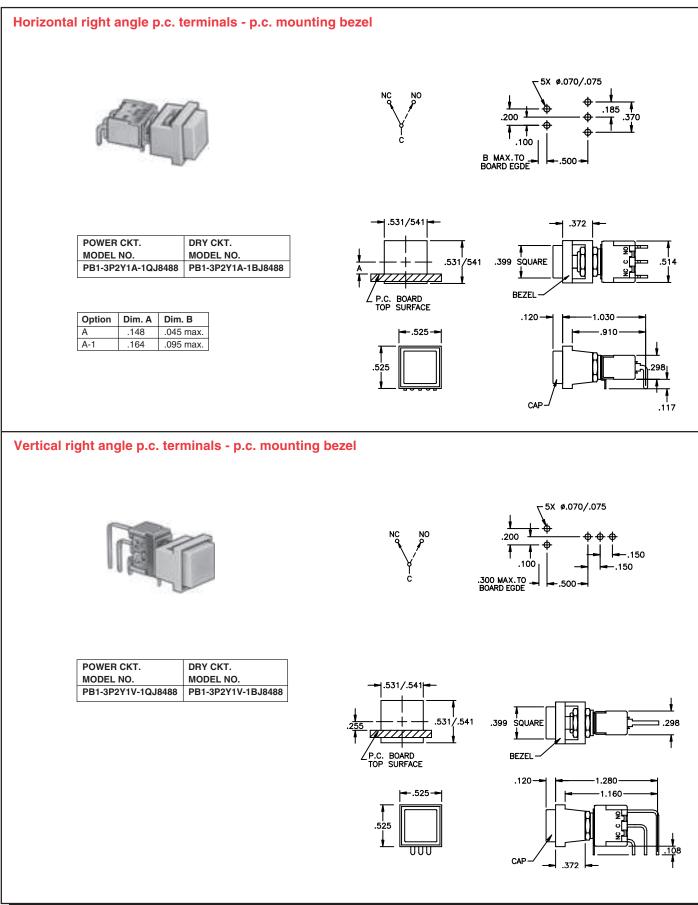






.298

C68 APEM, PO BOX 8288, HAVERHILL, MA USA 01835-0788 TOLL FREE: (877) 246-7890 FAX: (781) 245-4531 E-mail: info@apem.com



#### Solder lug terminals - snap-in bezel for round hole mounting Self-keying against rotation .045 X .126 .090 .790 .133 790 223 28 CAI BE7EI POWER CKT. DRY CKT. MODEL NO. MODEL NO. PB1-3P2Y1ZQJ9688 PB1-3P2Y1ZBJ9688 ø.718 ø.718 NC .090 655

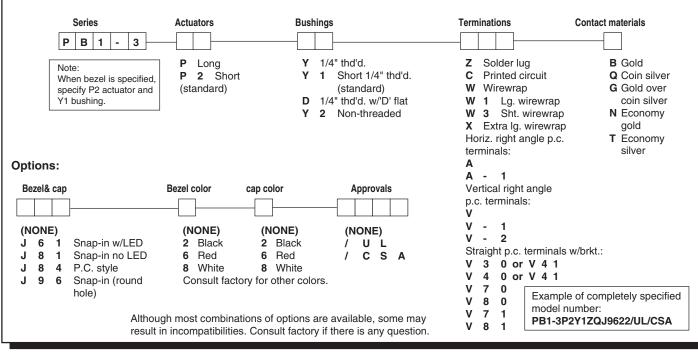
**Additional ordering information:** Commonly ordered models are shown above and on prior pages with complete model numbers and specifications. Below is an order format that enables you to 'build your own switch' and specify the correct switch model number by simply selecting from all available options shown and filling in the boxes.

#### 'BUILD YOUR OWN SWITCH' ORDER FORMAT

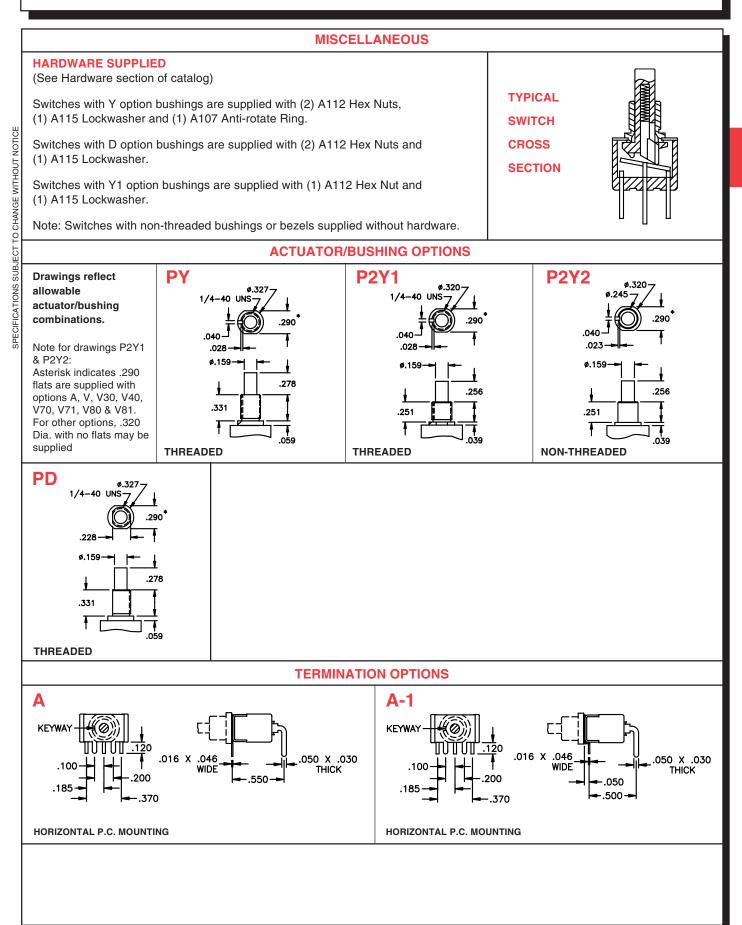
Fill in boxes with selections shown for **Model Structure**, then add **Options** selections for complete model number. Allowable options are shown below each respective box with brief description - see option dwgs. & info. following. Note: 'NONE' indicates box may be left empty.

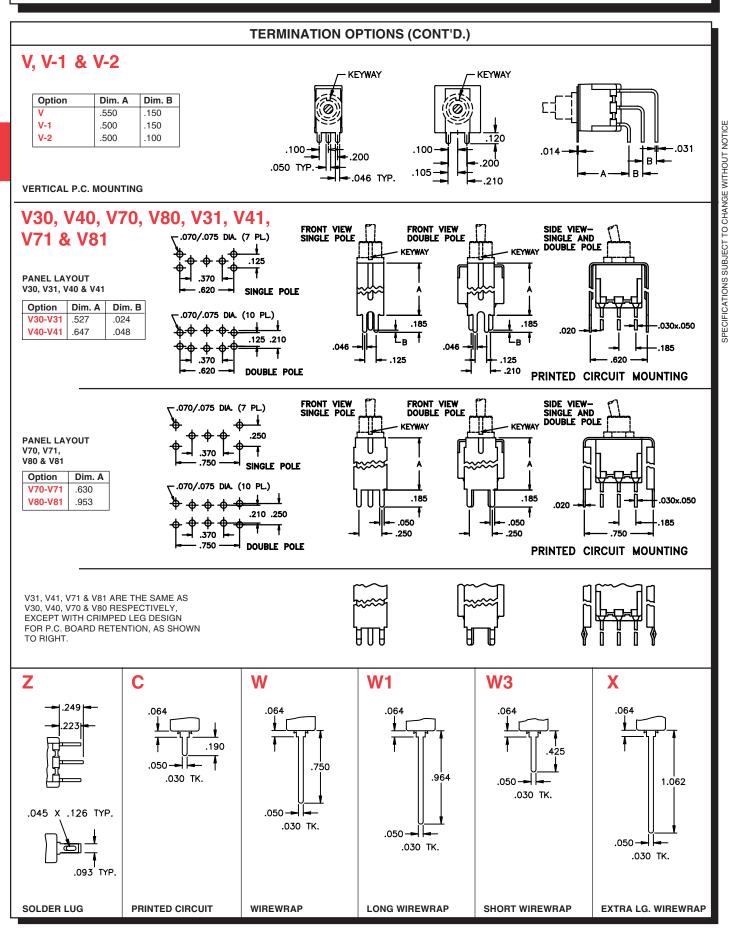
#### **Model Structure:**

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[	CONTACT MATERIAL OPTIONS										
	В	Dry circuit - gold over nickel over brass. RATING: 0.4 Volt-Amps (VA) max. at 20 V max. ELECTRIC LIFE: 60,000 cycles minimum. MECHANICAL LIFE: 500,000 cycles minimum.									
DTICE	Q	Power circuit - coin silver. RATING: 6 Amps at 125 VAC, 3 Amps at 250 VAC or 7 Amps at 30 VDC (resistive loads). ELECTRIC LIFE: 60,000 cycles minimum at full load.									
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE	G	Dry circuit or power circuit - gold over nickel over coin silver. RATINGS & ELECTRIC LIFE: Same as B & Q above - i.e can be used in either dry circuit or power circuit, however once used in power circuit, switch cannot be re-used in dry circuit. This option satisfies those customers who have both dry circuit and power circuit requirements, but prefer to inventory only one switch for both.									
<b>CT TO CHAN</b>	Ν	Dry circuit - gold over nickel over brass. Note- less gold than B option. RATING: 0.4 Volt-Amps (VA) max. at 20 V max. ELECTRIC LIFE: 10,000 cycles min. at 13 cycles per minute.									
ONS SUBJE	Т	Power circuit - Silver plate over brass. RATING: 1 Amp at 125 VAC or 0.5 Amps at 250 VAC (resistive loa ELECTRIC LIFE: 10,000 cycles min. at 13 cycles per minute.			ads).	Solder dipped terminals and custom contact plating available - contact factory.					
FICATI	UL & CSA OPTIONS										
SPECII	UL	For power circuits - coin silver RATING: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor). Underwriter Laboratories file no. E66367. Note - applicable only to terminations with coin silver contacts (Q or G options).									
	CSA	For power circuits - coin silver RATING: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor). Canadian Standards Association file no. LR54592-1. Note - applicable only to terminations with coin silver contacts (Q or G options) as CSA recognizes switches for power applications only.									
	TION										
	E Space between terminals and case hole is completely epoxy sealed to prevent flux and contaminant entry.		/R To reverse the NO and NC terminals, add /R to the switch model number.								
ľ				PANEL C	UT-OUTS						
ľ	Cut-out:	s that acce	pt all 1/4-40 threaded	bushings:							
	ø.250 <u>+.003</u> –		.187±.005	.240±.010	ø.250±.003	.020 .023 .035 .035 .030 ø.250±.000	ø.250±.003				
	Without k	eying	With A107 anti-rotate ring	With A158 anti-rotate ring	With D bushing	With slotted keyway bushings	Accepts all 1/4" non- threaded bushings				
				MISCELL	ANEOUS						
	QUICK-C	ONNECT REC	CEPTACLES that are compa	atible with solder lug or p.c.	terminals are commercial	ly available. Consult factor	y.				
	FRONT PANEL SEAL: Silicone rubber boots for front panel sealing of the switch against high pressure water or other contaminants are available. See Waterproof Switch Sealing Boots section in catalog.										
	SWITCH CAPS for switches without bezels also available - see Hardware section of catalog										