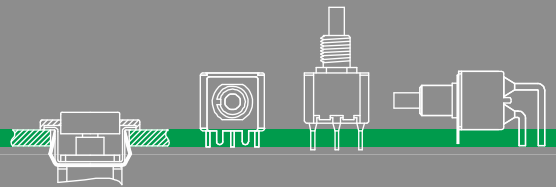


Snap-Acting Pushbutton Switches - PU series



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material.

See [Contact Plating & Ratings](#).

MECHANICAL LIFE: 50,000 make-and-break cycles.

CONTACT RESISTANCE: 20mΩ max. initial @ 2-4VDC

100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 MΩ min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @sea level.

OPERATING TEMPERATURE: -40°C to 85°C.

 models available,
consult sales representatives.

MATERIALS

CASE: Diallyl phthalate(DAP) (UL94V-0).

PLUNGER: Glass filled Nylon or Glass filled polyester.(PBT)

BUSHING: Brass, nickel plated.

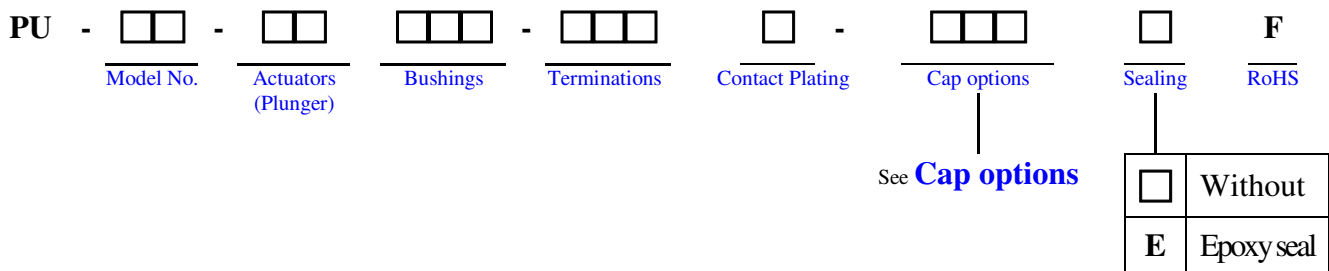
HOUSING: Stainless Steel.

CONTACT: Brass or Copper alloy, silver or gold plated.

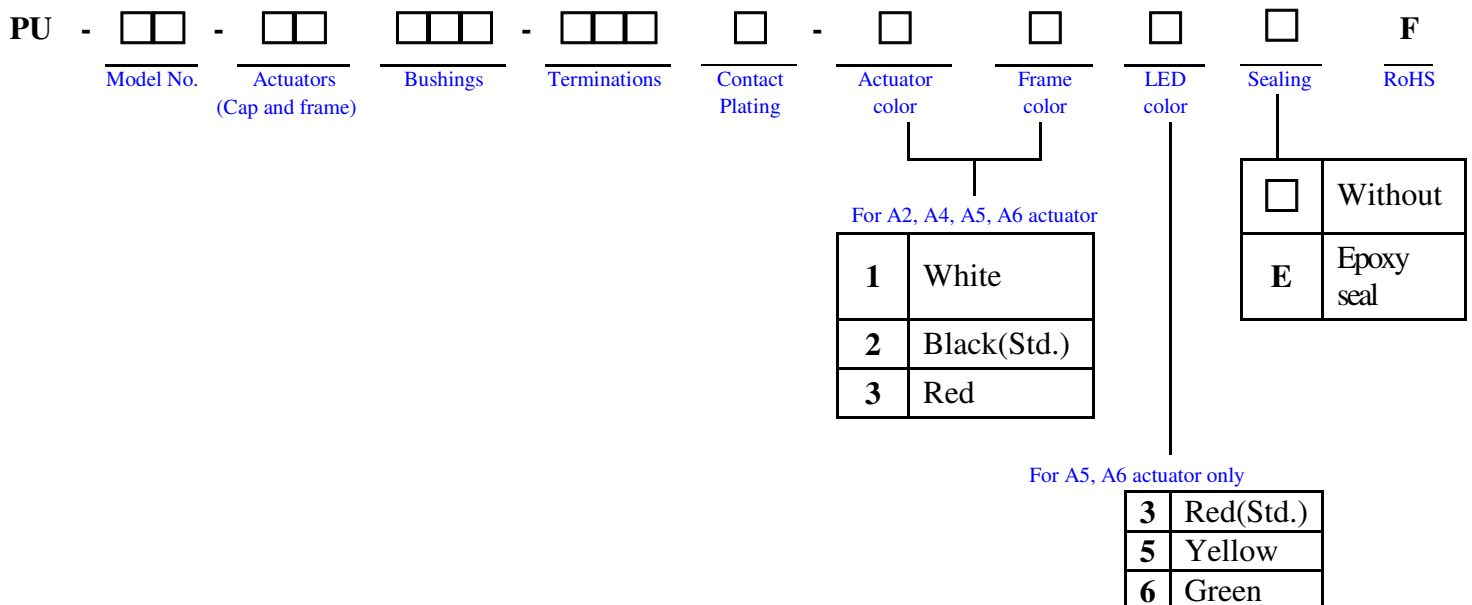
PU-S8 & PU-D8 with gold over silver for plating. See [Contact Plating & Ratings](#).

PART NUMBERING SYSTEM

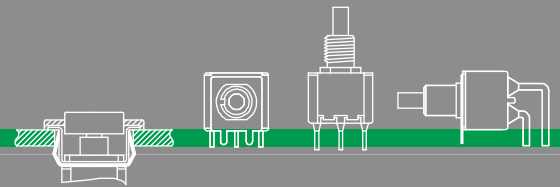
With Plunger(Std.)



With Cap and Frame



Snap-Acting Pushbutton Switches - PU series



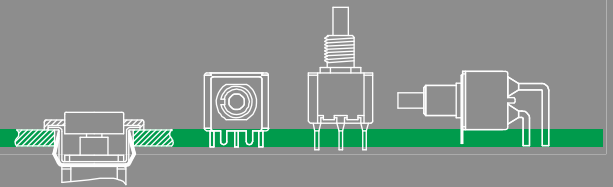
Model No./ Switching function

()= Momentary

Unit: Inch/ mm

SPDT			Part No. Shown: PU-S7-B11-M1□E-F	
Model No.	Switching function		SPDT	
S7	On	(On)		
Connected terminals	1-3	1-2		
Schematic				
SPDT			Part No. Shown: PU-S8-B10-M1□E-F	
Model No.	Switching function		SPDT	
S8	On	On		
Connected terminals	1-2	2-3		
Schematic				
DPDT			Part No. Shown: PU-D7-B11-M1□E-F	
Model No.	Switching function		DPDT	
D7	On	(On)		
Connected terminals	1-3, 4-6	1-2, 4-5		
Schematic				
DPDT			Part No. Shown: PU-D8-B10-M1□E-F	
Model No.	Switching function		DPDT	
D8	On	On		
Connected terminals	1-2, 4-5	2-3, 5-6		
Schematic				

Snap-Acting Pushbutton Switches - PU series



Plungers, Cap and Frame

Unit: Inch/ mm

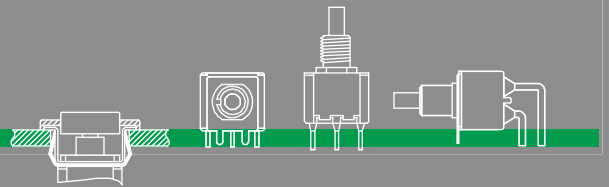
Plunger only(Std.)	PA Handle, metal material	PB Handle, metal material	PC Handle, metal material
A2		A4	
A5		A6	

Bushings

Unit: Inch/ mm

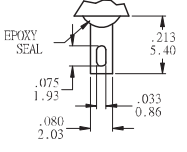
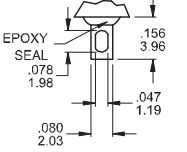
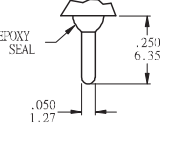
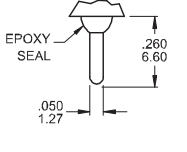
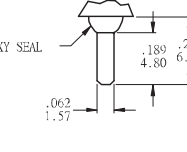
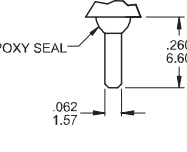
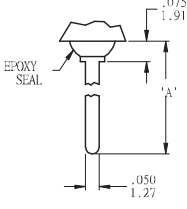
B10 Threaded (Std.) B20 Unthreaded	B11 Threaded B21 Unthreaded
Std. for S7, D7 models For S7, D7, S8, D8 models Std. for S8, D8 models	For S7, D7 models For S7, D7, S8, D8 models Std. for S8, D8 models
B13	B60 Threaded(Std.) B70 Unthreaded
Use with PB actuator only	Use with PA, PC actuators

Snap-Acting Pushbutton Switches - PU series

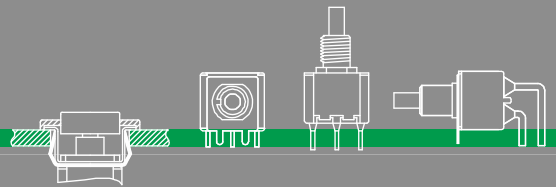


Terminations

Unit: Inch/ mm

M1 Solder		M2 PCB		M3 Quick connect	
For S7, D7 models	For S8, D8 models	For S7, D7 models	For S8, D8 models	For S7, D7 models	For S8, D8 models
 .030(0.76) THK.	 .030(0.76) THK.	 .030(0.76) THK.	 .030(0.76) THK.	 .030(0.76) THK.	 .030(0.76) THK.
M5 Wire wrap					
 .030(0.76) THK.		Option code	Dim. 'A'		
		M51	.750 (19.50)		
		M52	.964 (24.48)		
		M53	.426 (10.80)		
		M54	.650 (16.50)		

Snap-Acting Pushbutton Switches - PU series

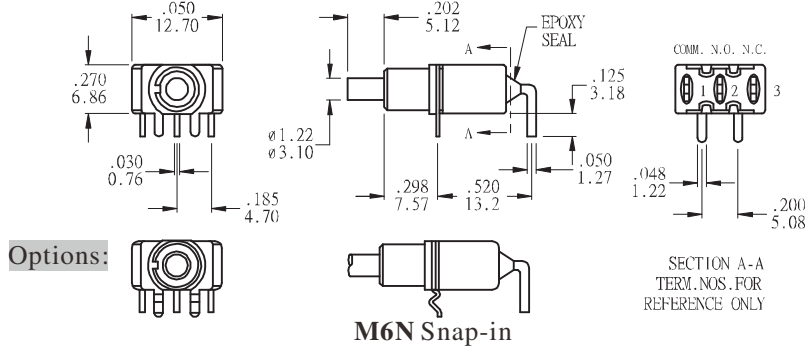


Terminations

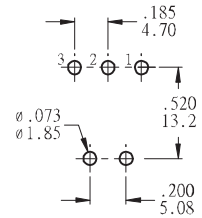
Unit: Inch/ mm

M6 Right angle P.C. Mount

Part No. Shown: PU-S7-B20-M6□□E-F
SPDT

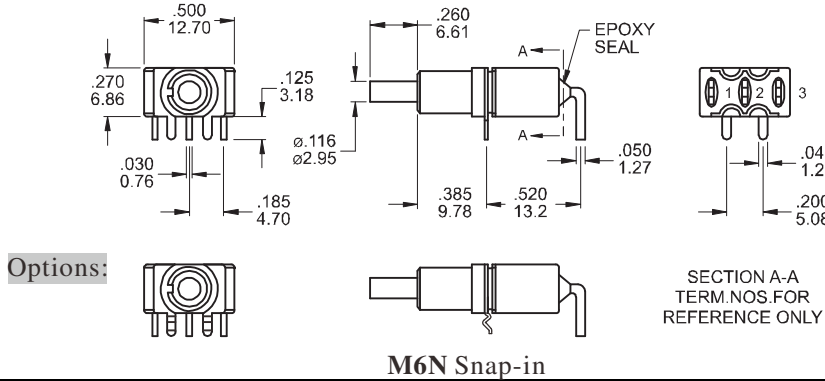


P. C. B. Layout

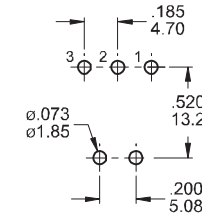


M6 Right angle P.C. Mount

Part No. Shown: PU-S8-B20-M6□□E-F
SPDT

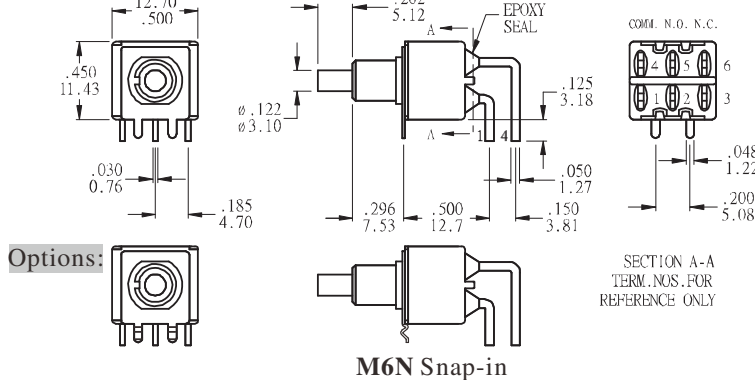


P. C. B. Layout

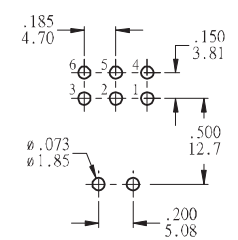


M6 Right angle P.C. Mount

Part No. Shown: PU-D7-B20-M6□□E-F
DPDT

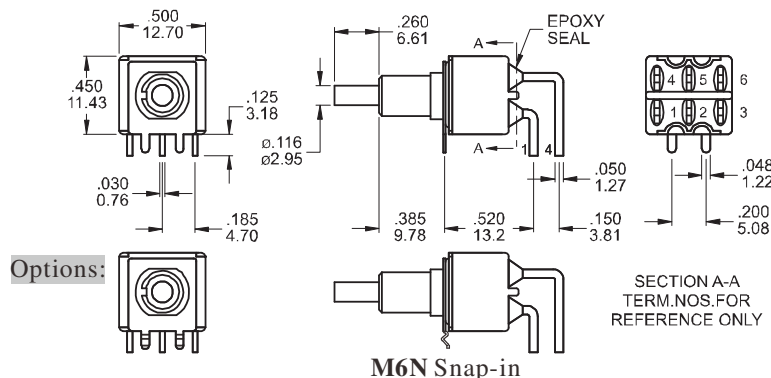


P. C. B. Layout

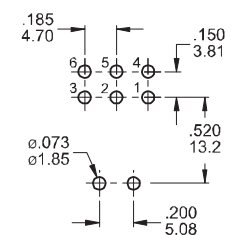


M6 Right angle P.C. Mount

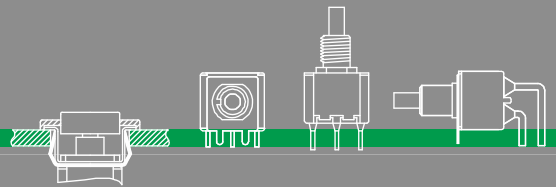
Part No. Shown: PU-D8-B20-M6□□E-F
DPDT



P. C. B. Layout



Snap-Acting Pushbutton Switches - PU series

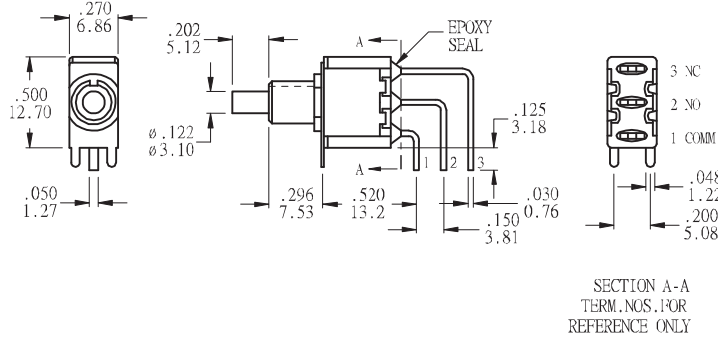


Terminations

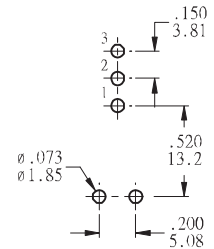
Unit: Inch/ mm

M7 Vertical right angle P.C. Mount

Part No. Shown: PU-S7-B20-M7□E-F
SPDT

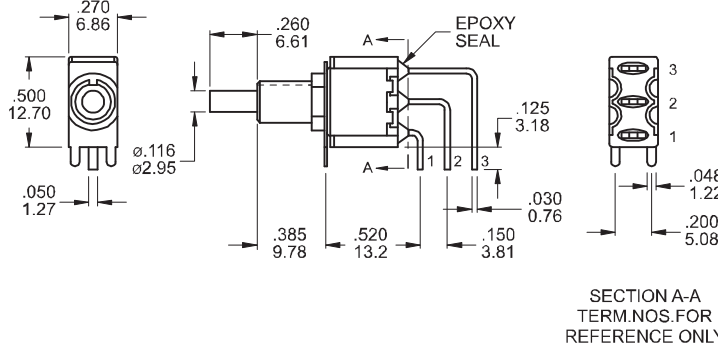


P. C. B. Layout

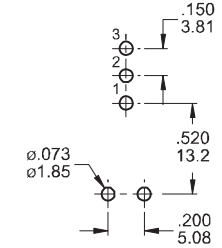


M7 Vertical right angle P.C. Mount

Part No. Shown: PU-S8-B20-M7□E-F
SPDT

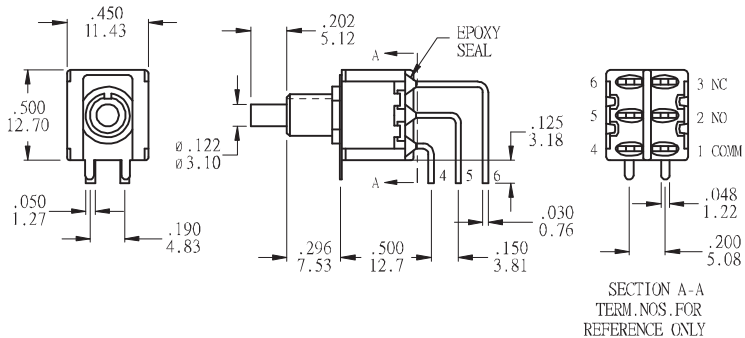


P. C. B. Layout

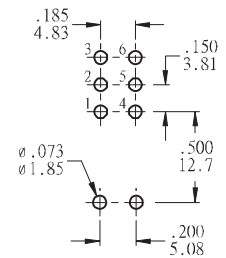


M7 Vertical right angle P.C. Mount

Part No. Shown: PU-D7-B20-M7□E-F
DPDT

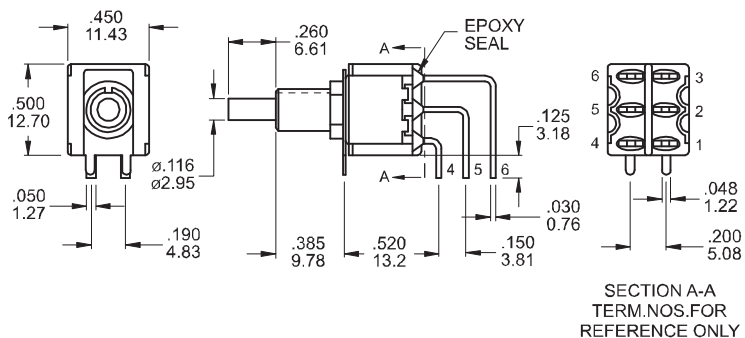


P. C. B. Layout

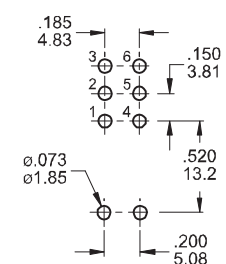


M7 Vertical right angle P.C. Mount

Part No. Shown: PU-D8-B20-M7□E-F
DPDT



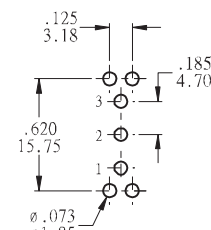
P. C. B. Layout



Unit: Inch/ mm

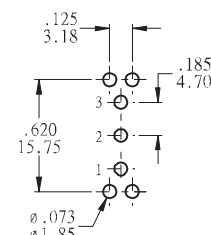
P. C. B. Layout

.630
16.00



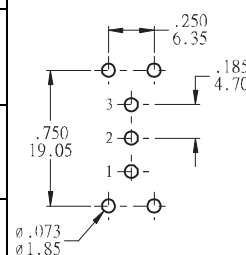
P. C. B. Layout

.630
16.00

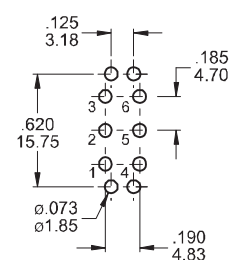


P. C. B. Layout

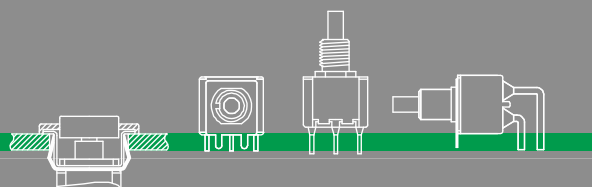
.630
16.00



.460
11.68



Snap-Acting Pushbutton Switches - PU series



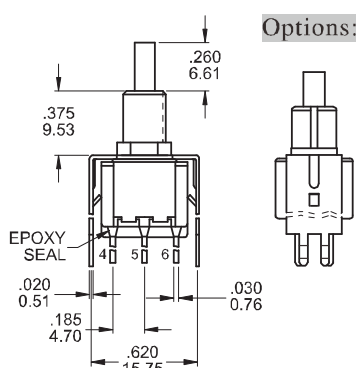
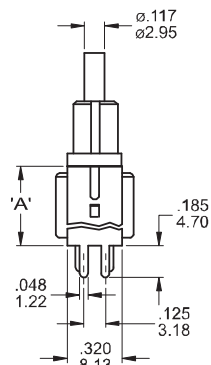
Terminations

Unit: Inch/ mm

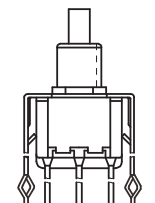
V Vertical bracket P.C. Mount

Part No. Shown: PU-D8-B20-V□□□E-F

DPDT



Options:



V2N Snap-in

Option
Code

Dim. 'A'

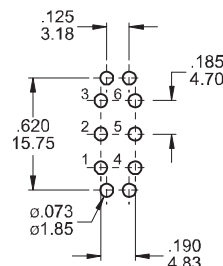
V2□

.460
11.68

V3

.630
16.00

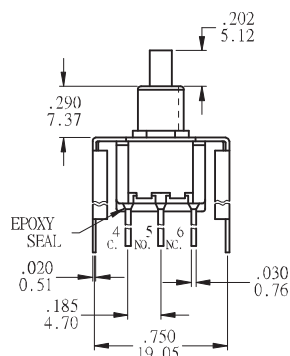
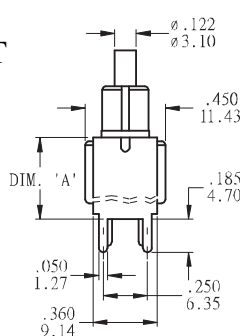
P. C. B. Layout



V Vertical bracket P.C. Mount

Part No. Shown: PU-D7-B20-V□□□E-F

DPDT



Option
Code

Dim. 'A'

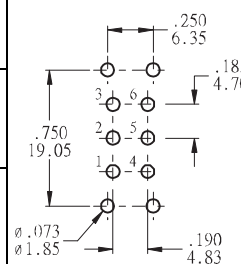
V4

.460
11.68

V5

.630
16.00

P. C. B. Layout



Contact Plating & Ratings

Option code	Contact plating		Terminal plating	Ratings
G	Gold		Gold	0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)
S	S7,D7 models	Silver	Silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
	S8,D8 models	Gold over silver		
A	Gold over silver		Gold over silver	

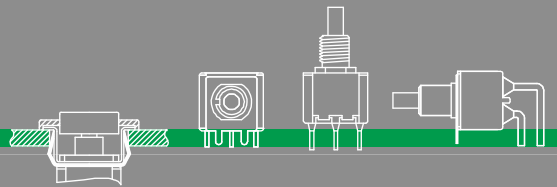
SOLDERING PROCESSES

Manual soldering: Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

Wave soldering: Recommended soldering temperature: 270 ± 5°C.

Duration of solder immersion: Max 5 sec. (PCB is 1.6mm in thickness).

Snap-Acting Pushbutton Switches - PU series



Cap options

Unit: Inch/ mm

C1	C2	C3	C4	C6			
C7	C8	Cap color					
		☐	Plunger only	4	Orange	7	Blue
		1	White(STD.)	5	Yellow	8	Brown
		2	Black(STD.)	6	Green	9	Gray
		3	Red(STD.)	Besides standard color, consult sales representatives in advance.			
For PC actuator only							

Hardware

Unit: Inch/ mm

HW01	HW02	HW03