

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material. See [Contact Plating & Ratings](#).

MECHANICAL LIFE: 30,000 make-and-break cycles.


CONTACT RESISTANCE: 10 mΩ 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.

DEGREE OF PROTECTION: IP67

 models available,
consult sales representatives.

MATERIALS

CASE & BUSHING: Glass filled nylon 6/6, flame retardant. Heat stabilized (UL94v-0).

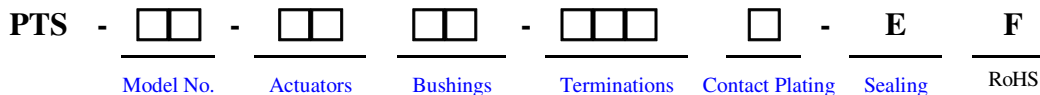
ACTUATOR: Brass, chrome plated with internal, O-ring seal standard.

SWITCH SUPPORT: Brass or steel, tin plated.

SWITCH SUPPORT RETAINER: Stainless steel.




















CONTACT / TERMINALS: Copper alloy, with Silver or gold plated. See [Contact Plating & Ratings](#).



PART NUMBERING SYSTEM

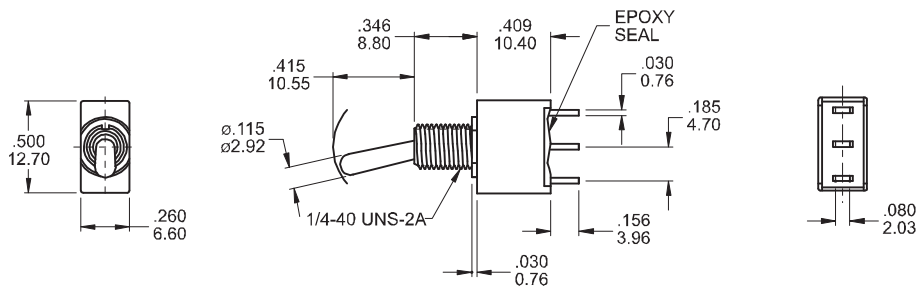


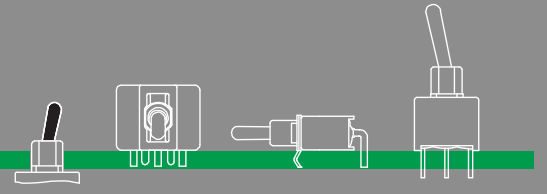
Model No./ Switching function ()= Momentary

Unit: Inch/ mm

Model No.	SPDT			Model No.	SPDT		
	Switching function				Switching function		
S1	 On	 None	 On	S3	 On	 Off	 On
S2	 On	 None	 (On)	S4	 (On)	 Off	 (On)
				S5	 On	 Off	 (On)
Connected terminals	2-3	N/A	2-1	Connected terminals	2-3	Open	2-1
Schematic	2 Comm. 		2 Comm. 	Schematic	2 Comm. 		2 Comm. 

Part No. Shown: PTS-S-T1B1-M1E-F
SPDT



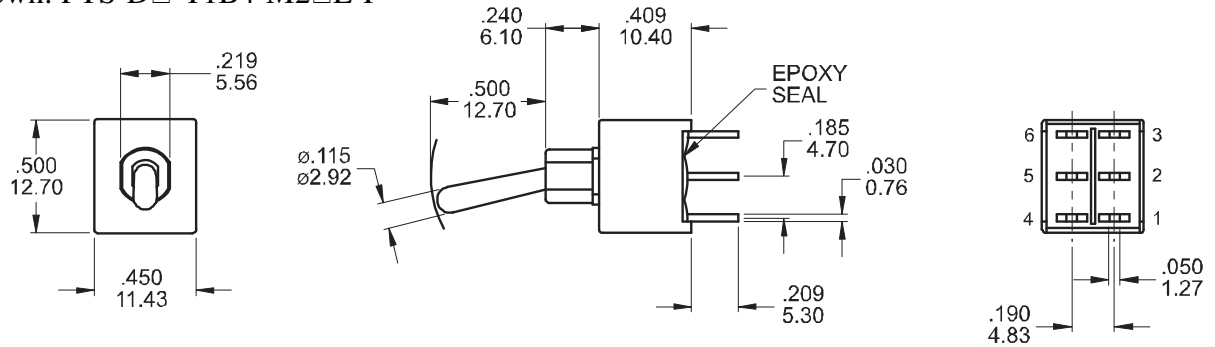


Model No./ Switching function ()= Momentary

Unit: Inch/ mm

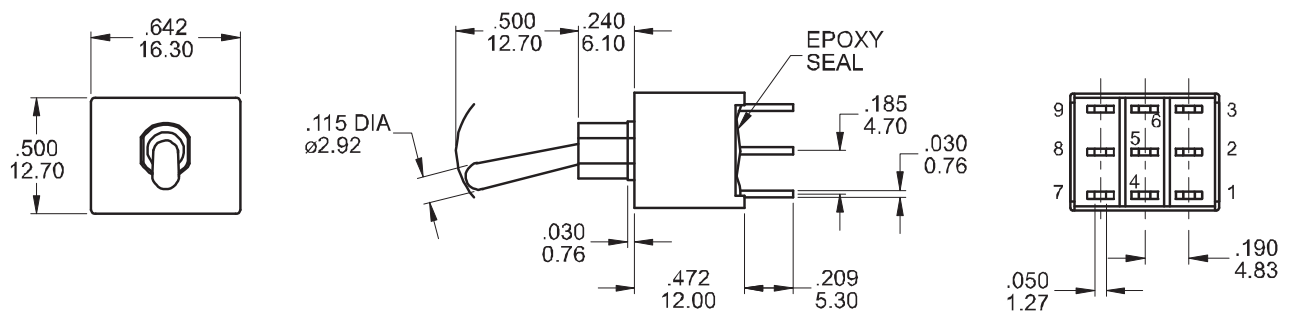
DPDT			DPDT			DPDT					
Model No.	Switching function		Model No.	Switching function		Model No.	Switching function				
D1	On	None	On	D3	On	Off	On	D6	On	On	On
D2	On	None	(On)	D4	(On)	Off	(On)	D7	(On)	On	(On)
				D5	On	Off	(On)	D8	On	On	(On)
Connected terminals	2-3,5-6	N/A	2-1,5-4	Connected terminals	2-3,5-6	Open	2-1,5-4	Connected terminals	2-3,5-6	2-3,5-4	2-1,5-4
Schematic				Schematic				Schematic for D6			

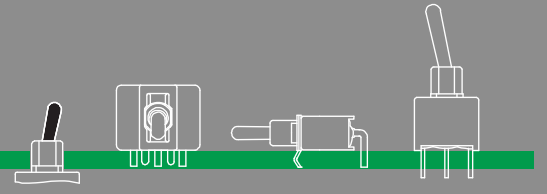
Part No. Shown: PTS-D□-T1B4-M2□E-F
DPDT



3PDT			3PDT				
Model No.	Switching function		Model No.	Switching function			
E1	On	None	On	E3	On	Off	On
E2	On	None	(On)	E4	(On)	Off	(On)
				E5	On	Off	(On)
Connected terminals	2-3,5-6,8-9	N/A	2-1,5-4,8-7	Connected terminals	2-3,5-6,8-9	Open	2-1,5-4,8-7
Schematic				Schematic			

Part No. Shown: PTS-E□-T1B4-M2□E-F
3PDT





Actuators

Unit: Inch/ mm

T1	T2	TA Plastic, Black	TB Plastic, Black	TC Plastic, Silver

Actuator shown with standard B4 Bushing, Subtract .085 (2.15) for B1 bushing.

Bushings

Unit: Inch/ mm

B1 Threaded Std.	B4
STD. for M1 termination	STD. for M2, M6, M7, V□ terminations

Terminations & Sealing

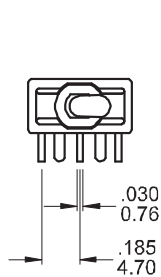
Unit: Inch/ mm

M1-□-E Solder, With epoxy seal	M2-□-E PCB through hole, with epoxy seal	M3-□-E Quick connect, with epoxy seal	M5□-□-E Wire Wrap, with epoxy seal	Option Code	Dim. `A`
				M51	.736 (18.70)
				M52	.953 (24.20)
				M53	.415 (10.55)
				M54	1.062 (26.97)

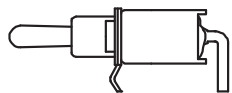
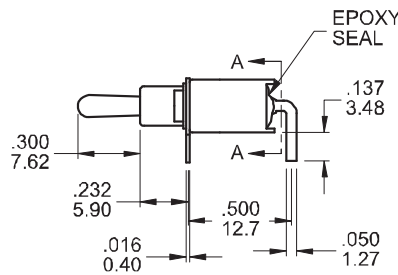
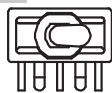
M6□ Right angle P.C. Mount

Part No. Shown: PTS-S□-T2B4-M6□□E-F

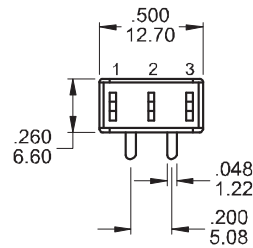
SPDT



Options:

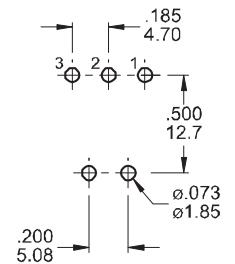


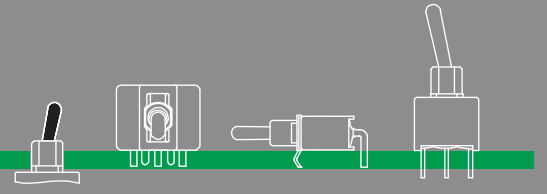
M6N Snap-in



SECTION A-A
TERM. NOS. FOR
REFERENCE ONLY

P. C. B. Layout





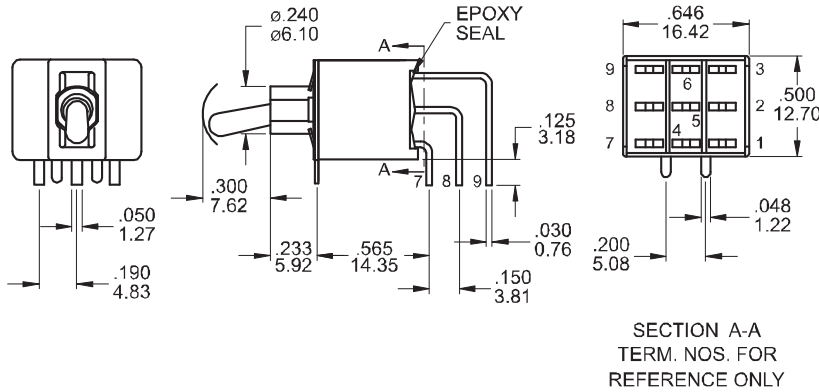
Terminations & Sealing

Unit: Inch/ mm

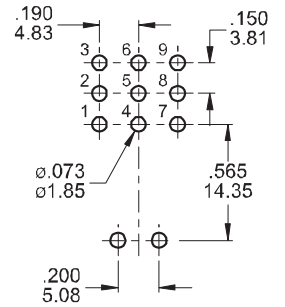
M7 Vertical right angle P.C. Mount

Part No. Shown: PTS-E□-T2B4-M7□E-F

3PDT



P. C. B. Layout



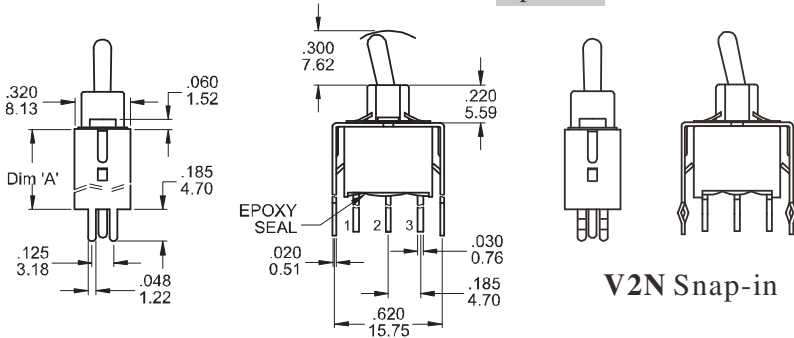
SECTION A-A
TERM. NOS. FOR
REFERENCE ONLY

V□□ Vertical bracket P.C. Mount

Part No. Shown: PTS-S□-T2B4-V□□E-F

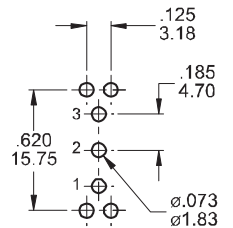
SPDT

Options:



Option Code	Dim. 'A'
V2□	.460 11.68
V3	.630 16.00

P. C. B. Layout

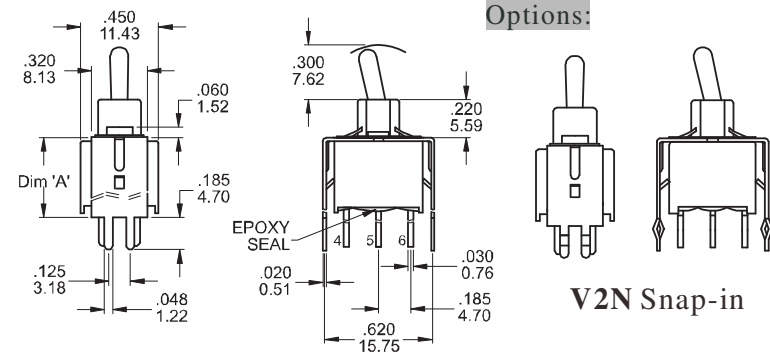


V□□ Vertical bracket P.C. Mount

Part No. Shown: PTS-D□-T2B4-V□□E-F

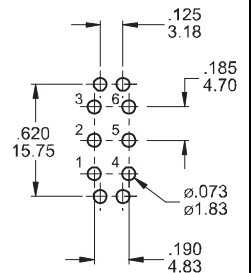
DPDT

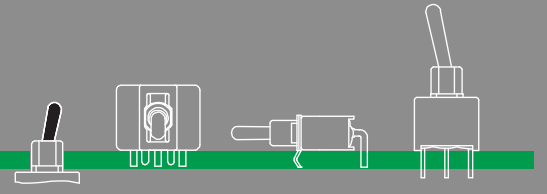
Options:



Option Code	Dim. 'A'
V2□	.460 11.68
V3	.630 16.00

P. C. B. Layout





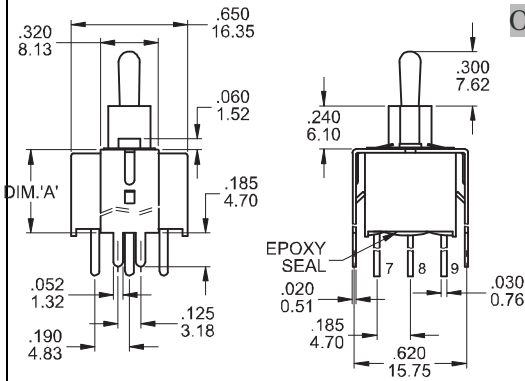
Terminations & Sealing

Unit: Inch/ mm

V□□ Vertical bracket P.C. Mount

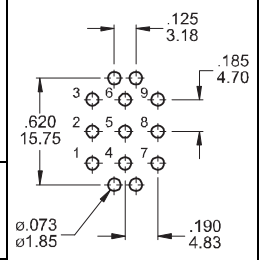
Part No. Shown: PTS-E□-T2B4-V□□□E-F

3PDT



Option Code	Dim. 'A'
V2□	.460 11.68
V3	.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	Silver	Silver	5 Amps with resistant load @ 120VAC or 28VDC
A	Gold over silver	Gold over silver	2 Amps with resistant load @ 250VAC

HARDWARE

Unit: Inch/ mm

HW01 1/4 inch Nut	HW06 Locking ring	HW09 Lock washer

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).