

**m** models available,

consult sales representatives.

#### **SPECIFICATIONS**

CONTACT RATING: Dependent upon contact material. See Contact Plating & Ratings.

**MECHANICAL LIFE:** 30,000 make-and-break cycles. **CONTACT RESISTANCE:** 20 m $\Omega$ max. initial @ 2-4VDC

100mA for both silver and gold plated contacts.

**INSULATION RESISTANCE:** 1,000 M $\Omega$ min.

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

**OPERATING TEMPERATURE:** -40°C to 85°C.

**MATERIALS** 

**CASE:** Diallyl phthalate (DAP) (UL94v-0).

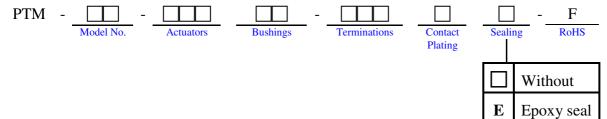
**ACTUATOR:** Brass, chrome plated. **BUSHING:** Brass or zinc, nickel plated.

**HOUSING:** Stainless Steel.

**SWITCH SUPPORT:** Brass,tin plated.

TERMINAL/CONTACT: Brass or copper alloy, with Silver or gold plated. See Contact Plating & Ratings.

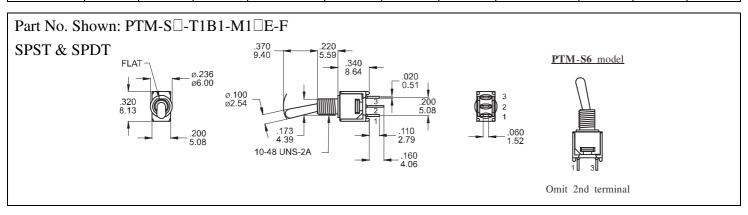
#### PART NUMBERING SYSTEM



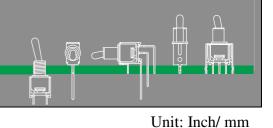
## **Model No./ Switching function** ( )= Momentary

Unit: Inch/ mm SPDT

SPST			SPDT			SPDT					
Model Switch		ching function		Model	Switching function		Model	Switching function		nction	
No.	À		4	No.	À		4	No.	À		4
S0	On	None	Off	S1	On	None	On	<b>S2</b>	On	Off	On
Connected terminals	2-3	N/A	Open	S3	On	None	(On)	S4	(On)	Off	(On)
Schematic	2 Comm. 3							S5	On	Off	(On)
<b>S6</b>	Off	None	On	Connected terminals	2-3	N/A	2-1	Connected terminals	2-3	Open	2-1
Connected terminals	Open	N/A	3-1	Schematic	2 Comm.		2 Comm.	Schematic	2 Comm.		2 Comm.
Schematic			[3 1]	Schematic	1 3		1 3	Schematic	1 3		1 3



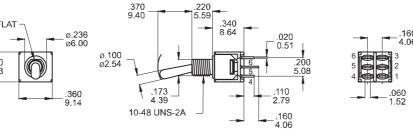




## **Model No./ Switching function** ( )= Momentary

	DPDT	[		DPDT				
Model	Model Switching functi		ion	Model	Sw	Switching function		
No.	*	-	4	No.	<b>,</b>		4	
D1	On	None	On	D2	On	Off	On	
D3	On	None	(On)	Connected terminals	2-3,5-6	Open	2-1,5-4	
Connected terminals	2-3,5-6	N/A	2-1,5-4	Schematic	2 Comm, 5		2 Comm. 5	
				D6	On	On	On	
Schematic	2 Comm. 5		2 Comm. 5	Connected terminals	2-3, 5-6	2-3, 5-4	2-1, 5-4	
				Schematic	2 Comm. 5	2 Comm. 5	2 Comm. 5	

# Part No. Shown: PTM-D□-T1B1-M1□E-F DPDT



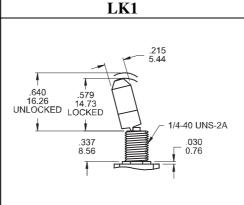
Actuators Unit: Inch/ mm

T1	T2	Т3	T4	Т5
STD.  0.100 02.54  370 9.40  .220 5.59	0.100 02.54 210 5.33 .220 5.59	Ø.100 Ø2.54 290 7.37	Ø.100 Ø2.54 410 10.41 7.87	0.100 02.54 .220 5.59 .310 7.87

T1,T2,T3 Actuator shown with B1 to B4 bushing, subtract 0.09 (2.29) for B5 bushing, subtract 0.04 (1.02) for B7 bushing. T4,T5 Actuator shown with B5,B6 bushing, add 0.09 (2.29) for B1 to B3 bushing, add 0.05 (1.27) for B7 bushing.

215 5.44 -630 16.00 UNLOCKED LOCKED UNLOCKED LOCKED -1/4-40 UNS-2A -0.76

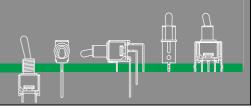
Std for M1,M2 Terminal sub .016(.040) for M6,M7,V2



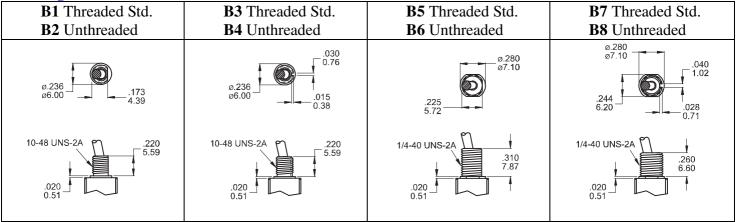
Bushing option code is not required. Only on-on and on-off-on are available.

2 positions lock 3 positions lock

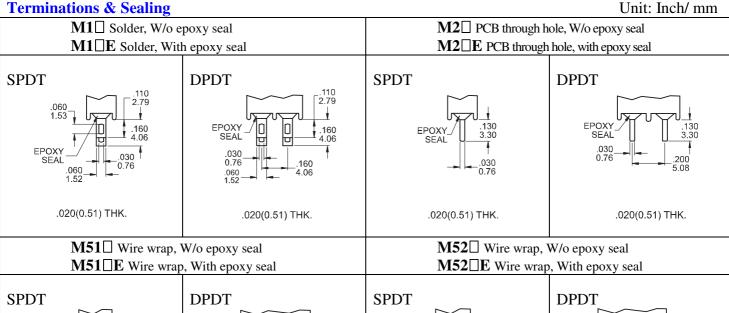


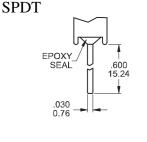


**Bushings** Unit: Inch/ mm

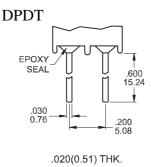


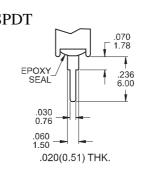
**Terminations & Sealing** 

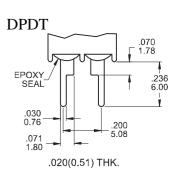




.020(0.51) THK.



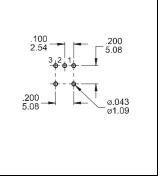




P. C. B. Layout

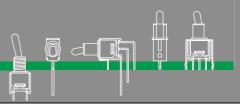
**M6** Right angle P.C. Mount

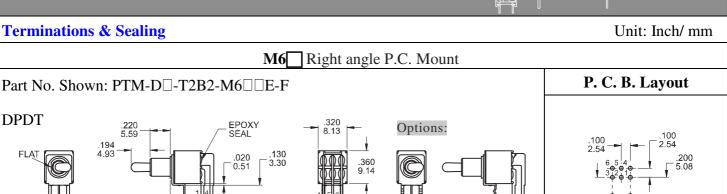
**SPDT** .220 5.59 EPOXY SEAL Options: .200 5.08 M6N Snap-in



Part No. Shown: PTM-S□-T2B2-M6□□E-F



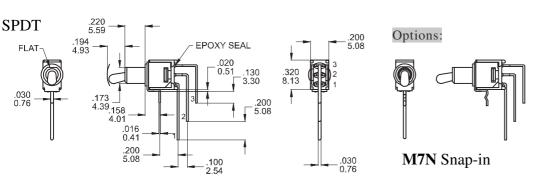




M7 Vertical right angle P.C. Mount

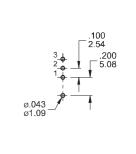
M6N Snap-in

Part No. Shown: PTM-S□-T2B2-M7□□E-F

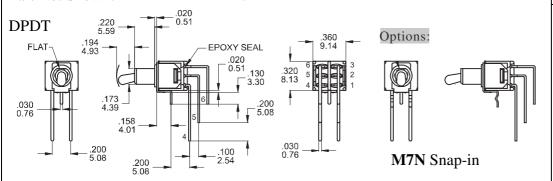


.030 0.76

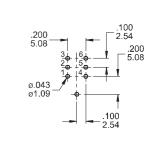
P. C. B. Layout



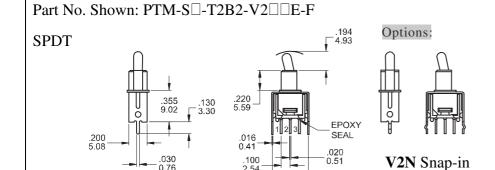
Part No. Shown: PTM-D□-T2B2-M7□□E-F



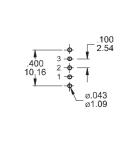
P. C. B. Layout



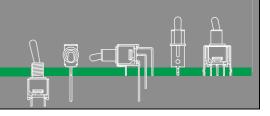
#### V Vertical bracket P.C. Mount



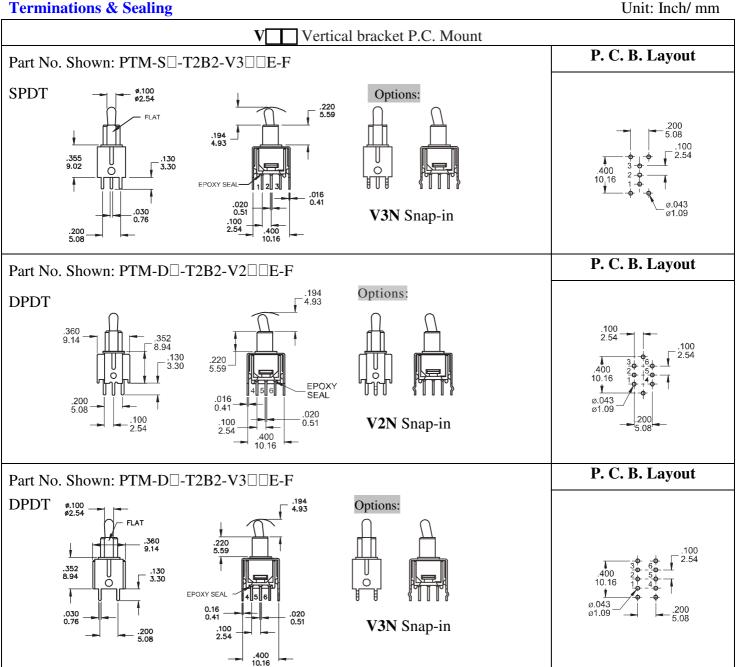
P. C. B. Layout







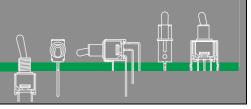
#### **Terminations & Sealing**



#### **PANEL MOUNTING** Unit: Inch/ mm

	10-48 BI	JSHING	1/4-IN. BUSHING		
	Keyway bushing	Flat bushing	Keyway bushing	Flat bushing	
Without locking ring	.023 .0.58 .0.58 .0.50 .0.10 .0.25	2.195 0 4.95 	0.250 06.35 0.85 0.22 0.55	0.250 06.35 	
	Keyway bushing		Keyway bushing		
With standard locking ring		240 6.10	Ø.250 Ø6.35 Ø.094 Ø 2.38		





HARDWARE Unit: Inch/ mm

HW05 10-48 Nut	HW14 Locking washer	HW09 Locking washer		
.315 8.00 -0.047 1.19 -10-48 UNS-2A	Ø.310 Ø7.87 Ø7.87 Ø7.87 Ø7.87 Ø7.87 Ø7.87 Ø7.87	0.425 010.80 0.46		
Supplied standard with B1, B3 bushing	Supplied standard with B1, B3 bushing	Supplied standard with B5, B7 bushing		
HW01 1/4 Nut	HW06 Locking ring	HW07 Locking ring		
362 9.19 7.92 1/4-40 UNS-2A	0.468 Ø11.89	0.468 011.89 0.74 0.74 0.029 0.74		

### **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	3 Amps with resistant load @ 120VAC or 28VDC
A	Gold over silver	Gold over silver	1 Amps with resistant load @ 250VAC

#### **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:  $270 \pm 5$ °C.

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