

**SPECIFICATIONS**

Electrical Ratings	3A @ 120VAC, 28VDC; 1A @ 250VAC See Contact Options
Electrical Life	30,000 cycles typical
Contact Resistance	< 20 mΩ max initial @ 2-4VDC, 100mA
Dielectric Strength	1500Vrms min
Insulation Resistance	> 100MΩ min
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C



**UL** US - E222871



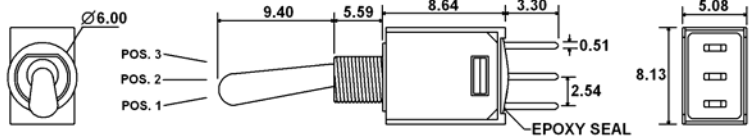



**MATERIALS ←RoHS COMPLIANT**


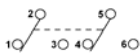
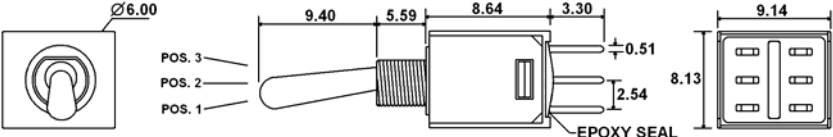



Actuator	Brass, Chrome Plated
Housing	DAP – Diallyl Phthalate
Cover	Stainless Steel
Bushing	Brass, Nickel Plated
Contacts	Copper Alloy, Silver or Gold Plated
Terminals	Brass, Silver or Gold Plated

**ORDERING INFORMATION**

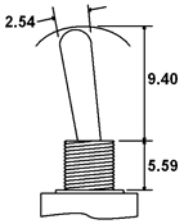
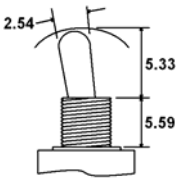
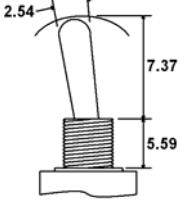
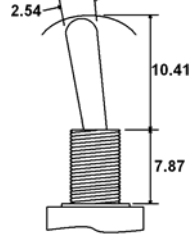
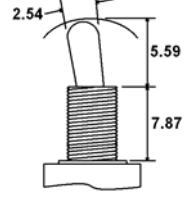
<b>Series:</b>	<b>BNT</b>	<b>2</b>	<b>1</b>	<b>U</b>	<b>E1</b>	<b>C</b>	<b>Q</b>	<b>E</b>
<b>BNT</b>								
<b>Number of Poles:</b>								
1 = SPDT								
2 = DPDT								
<b>Switch Function:</b>								
1 = ON-NONE-ON								
2 = ON-NONE-(ON)								
3 = ON-OFF-ON								
4 = (ON)-OFF-(ON) ** Only available in SPDT								
5 = ON-OFF-(ON) ** Only available in SPDT								
6 = ON-ON-ON ** See Three Way Wiring Section for Details								
<b>Actuator:</b>								
T = 5.33mm, Std, available on E/E1/F/F1 Bushings								
U = 7.37mm, Std, available on E/E1/F/F1 Bushings								
S = 9.40mm, Std, available on E/E1/F/F1 Bushings								
X = 5.59mm, Std, available on G/G1/J/J1 Bushings								
V = 10.41mm, Std, available on G/G1/J/J1 Bushings								
<b>Bushing:</b>								
E / E1 = 5.59mm, 10-48UNS / Non-Threaded, Flat								
F / F1 = 5.59mm, 10-48UNS / Non-Threaded, Keyway								
J / J1 = 6.60mm, ¼-40NS / Non-Threaded, Keyway								
G / G1 = 7.87mm, ¼-40NS / Non-Threaded, Flat								
<b>Terminals:</b>								
B = Solder Lug								
C = PC Pin								
H = Horizontal Mount, Right Angle PC Pin; HS = Snap-in								
V = Vertical Mount, Right Angle PC Pin; VS = Snap-in								
A5 = PC Pin with Support Bracket; A5S = Snap-in Support Bracket								
<b>Contacts:</b>								
Q = Silver Plated								
R = Gold Plated								
G = Gold over Silver Plated								
<b>Epoxy Seal:</b>								
E = Epoxy Seal								

## SWITCH FUNCTION

 <b>SPDT</b> 	Function	Toggle Position			
					
	1	ON	NONE	ON	
	2	ON	NONE	(ON)	
	3	ON	OFF	ON	
4	(ON)	OFF	(ON)		
5	ON	OFF	(ON)		
Terminals	2-3	---	2-1		

 <b>DPDT</b> 	Function	Toggle Position			
					
	1	ON	NONE	ON	
	2	ON	NONE	(ON)	
	3	ON	OFF	ON	
Terminals	2-3 5-6	---	2-1 5-4		
6	ON	ON	ON		
Terminals	2-3 5-6	2-3 5-4	2-1 5-4		

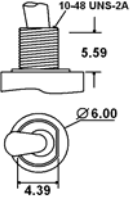
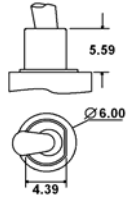
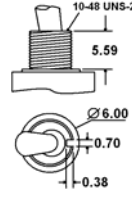
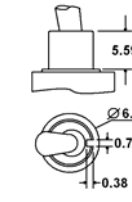
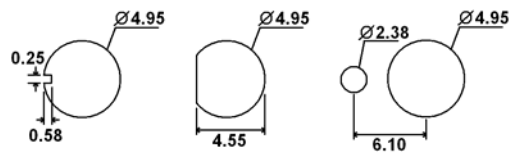
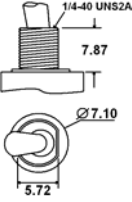
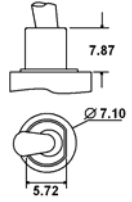
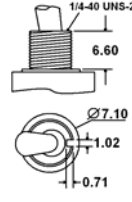
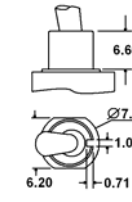
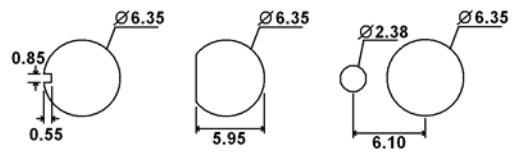
## ACTUATOR OPTIONS

 <b>S</b>	 <b>T</b>	 <b>U</b>	 <b>V</b>	 <b>X</b>
-------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------

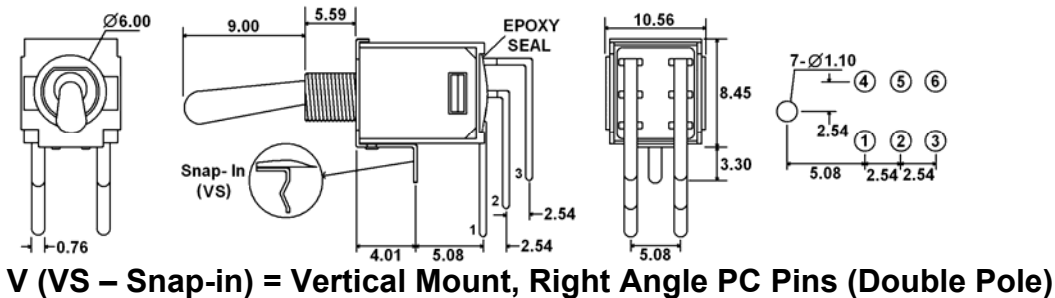
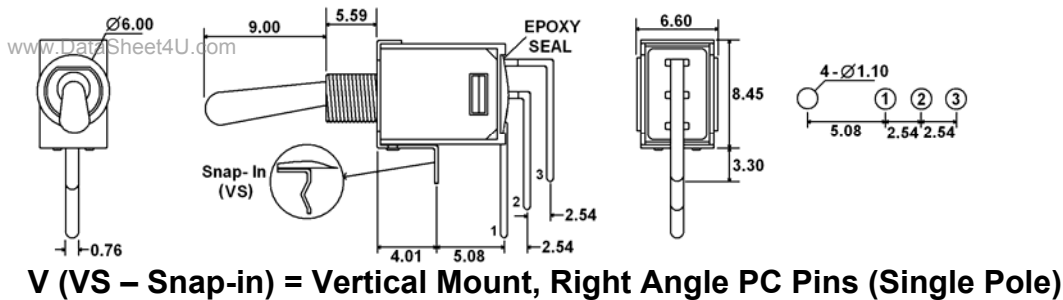
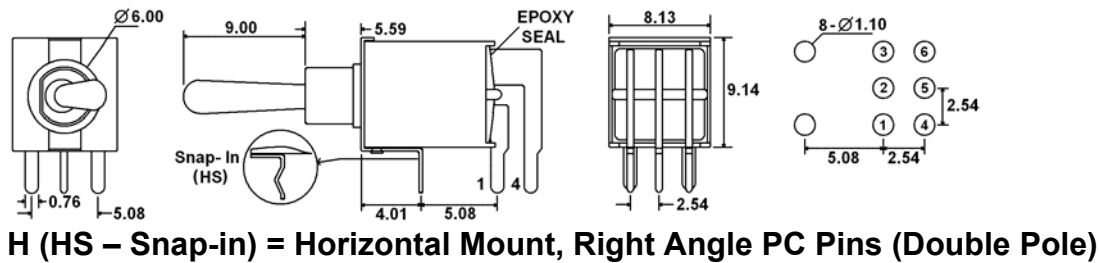
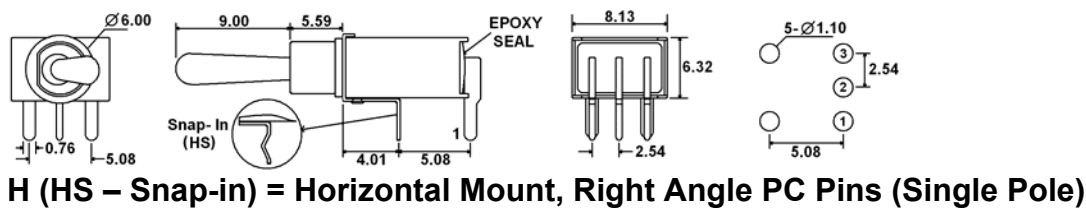
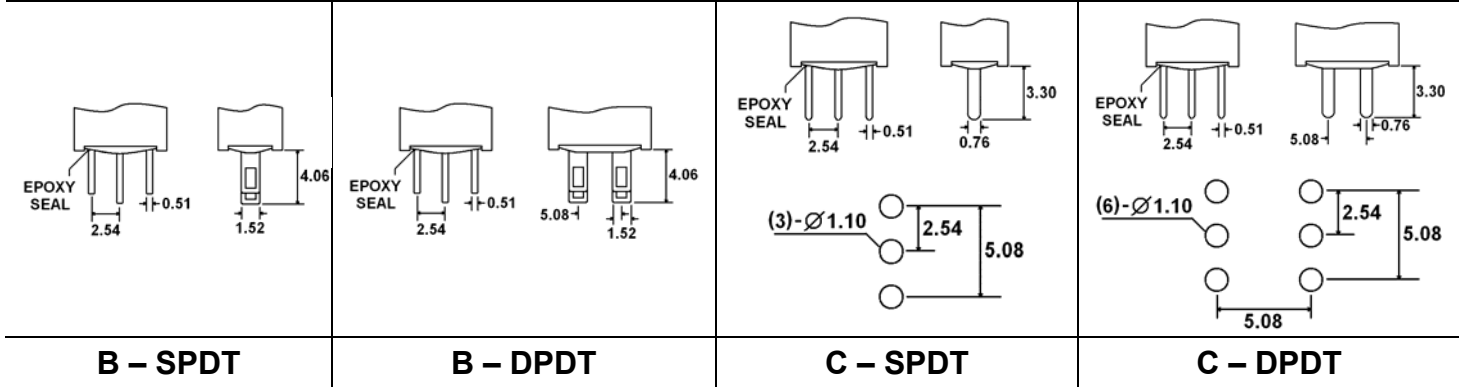
\*\*Only available with E, E1, F, & F1 Bushings

\*\*Only available with G, G1, J, & J1 Bushings

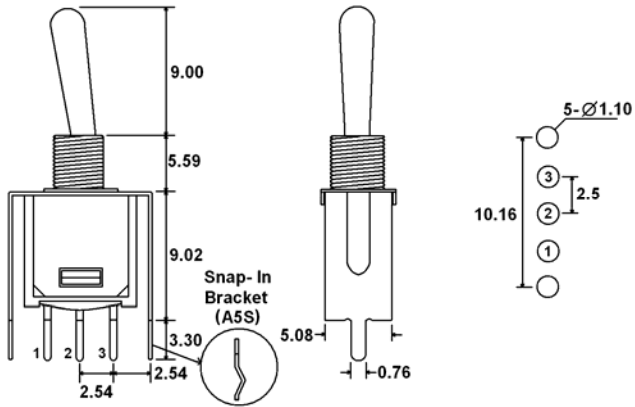
## BUSHING OPTIONS

 <b>E</b>	 <b>E1</b>	 <b>F</b>	 <b>F1</b>			
				<b>Panel Mounting – 10-48</b>		
 <b>G</b>	 <b>G1</b>	 <b>J</b>	 <b>J1</b>			
				<b>Panel Mounting – 1/4-40</b>		

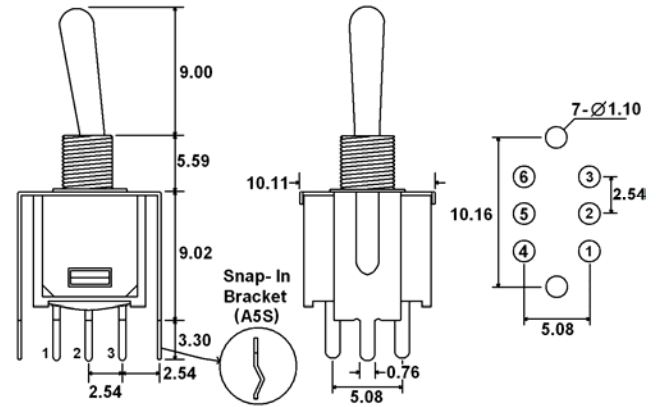
## TERMINAL OPTIONS



## TERMINAL OPTIONS



**A5 (A5S – Snap-in Bracket)  
PC Pins with Support Bracket (Single Pole)**



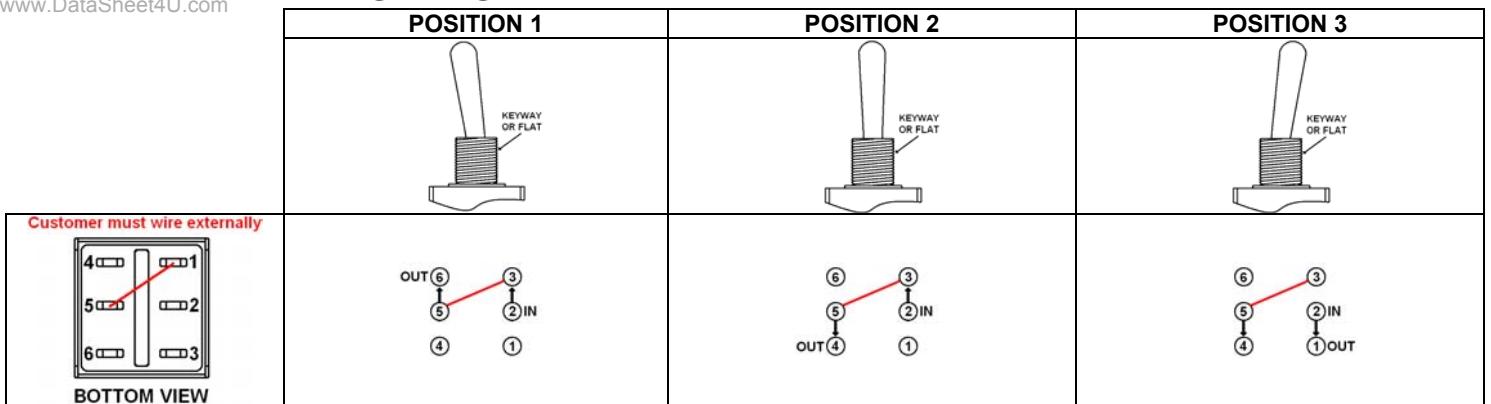
**A5 (A5S – Snap-in Bracket)  
PC Pins with Support Bracket (Double Pole)**

## CONTACT OPTIONS

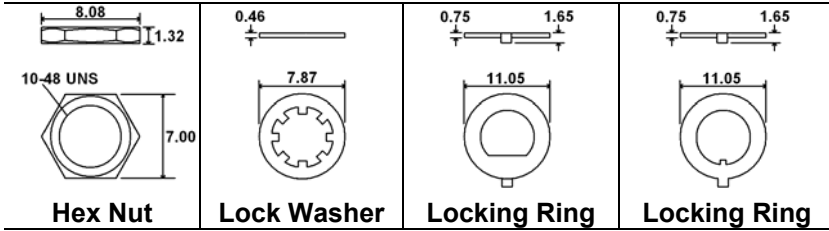
Designator	Contact Material	Terminal Material	Electrical Ratings
Q	Silver Plating	Silver Plating	3A @ 120VAC, 28VDC; 1A @ 250VAC
R	Gold over Nickel Plating	Gold over Nickel Plating	.4 VA max @ 20VAC or VDC max
G	Gold over Silver Plating	Gold over Silver Plating	.4 VA max @ 20VAC or VDC max or 3A @ 120VAC, 28VDC; 1A @ 250VAC

## THREE WAY WIRING DIAGRAM

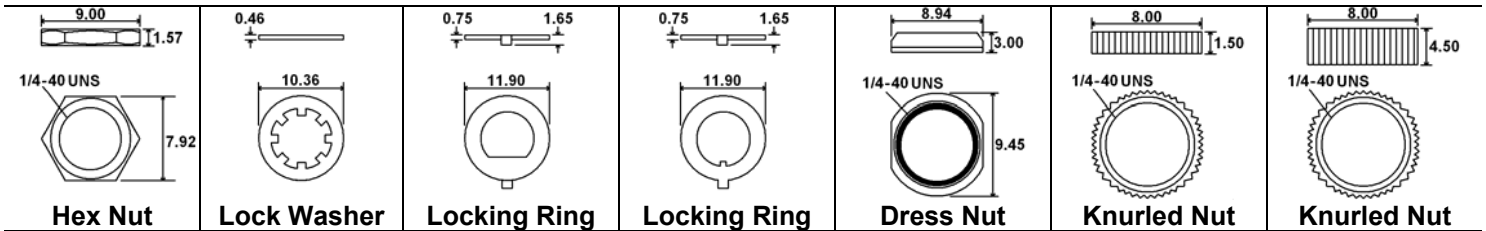
www.DataSheet4U.com



**HARDWARE** \*\*Two hex nuts, one lock washer, & one locking ring supplied standard with threaded bushings



\*\*For use with E & F Bushings



\*\*For use with G & J Bushings