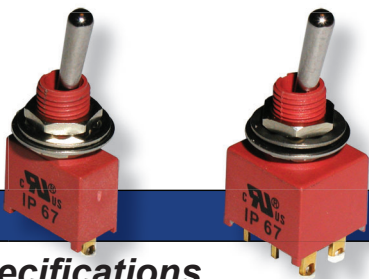


RoHS Compliant

E222871

Process Sealed Miniature Toggle



## Specifications

Electrical Ratings	5A @ 120VAC, 28VDC 2A @ 250VAC See Contact Options
Electrical Life	30,000 cycles typical
Contact Resistance	<20mΩ initial @ 2-4VDC, 100mA

Dielectric Resistance	1500Vrms min
Insulation Resistance	>100MΩ min
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Sealing Degree	IP67

## Materials

Actuator	Brass, Chrome Plated
Housing	4/6 Nylon, Glass Filled, Flame Retardant Heat Stabilized, UL94V-0
Support Bracket	Steel, Tin Plated
Contacts	Copper Alloy, Silver Plated
Terminals	Copper Alloy, Silver Plated

## Ordering Information

1. Series	AST	1	1	T	N	H	Q
AST							
2. Number of Poles							
1 = SPDT							
2 = DPDT							
3 = 3PDT							
3. Switch Function							
1 = ON-NONE-ON							
2 = ON-NONE-(ON)							
3 = ON-OFF-ON							
4 = (ON)-OFF-(ON)							
5 = ON-OFF-(ON)							
6 = ON-ON-ON - Only in DPDT models							
4. Actuator							
T = 7.62mm, standard							
S = 12.70mm, standard							
P1 = 7.62mm, plastic, anti-static							
P2 = 12.70mm, plastic, anti-static							
5. Bushing							
E = 8.89mm, threaded, 1/4-40 UNS-2A							
N = 6.10mm, non-threaded							
6. Terminals							
B = Solder lug							
C = PC pin							
D = Quick Connect							
H = Horizontal mount, right angle PC pin; HS = Snap-in							
V = Vertical mount, right angle PC pin							
S20 = PC pin with support bracket; V20 = Snap-in support bracket							
S25 = PC pin with support bracket; V25 = Snap-in support bracket							
7. Contacts							
Q = Silver plated							
R = Gold plated							
G = Gold over Silver plated							

# AST

## Process Sealed Miniature Toggle

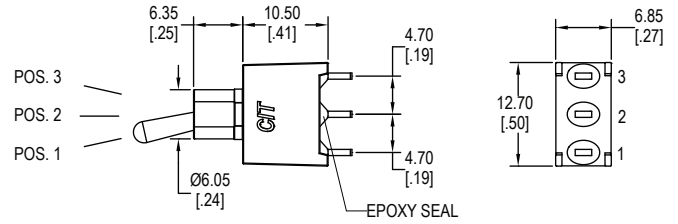
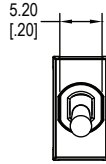
### Switch Function



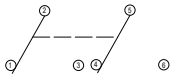
**SPDT**



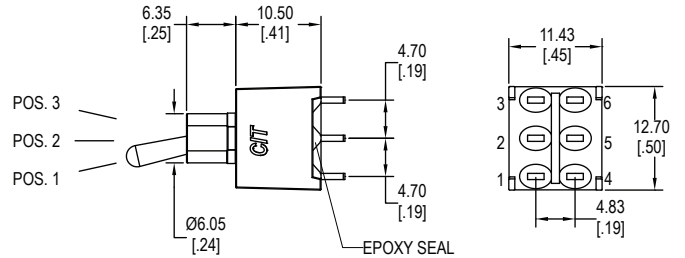
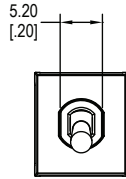
Function	Toggle Position		
1	ON	NONE	ON
2	ON	NONE	(ON)
3	ON	OFF	ON
4	(ON)	OFF	(ON)
5	ON	OFF	(ON)
Terminals	2-3	-	2-1



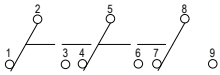
**DPDT**



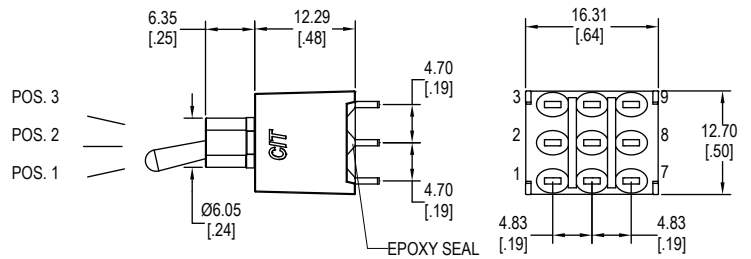
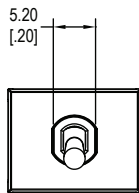
Function	Toggle Position		
1	ON	NONE	ON
2	ON	NONE	(ON)
3	ON	OFF	ON
4	(ON)	OFF	(ON)
5	ON	OFF	(ON)
Terminals	2-3	-	2-1
6	ON	ON	ON
Terminals	2-3 5-6	2-3 5-4	2-1 5-4



**3PDT**

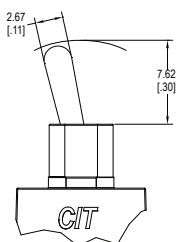


Function	Toggle Position		
1	ON	NONE	ON
2	ON	NONE	(ON)
3	ON	OFF	ON
4	(ON)	OFF	(ON)
5	ON	OFF	(ON)
Terminals	2-3 5-6 8-9	-	2-1 5-4 8-7

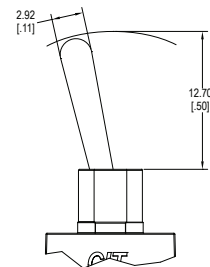


### Actuator Options

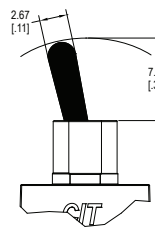
Actuator lengths shown with N bushing, subtract 2.15mm for E bushing



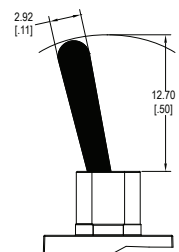
**T**



**S**

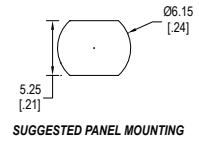
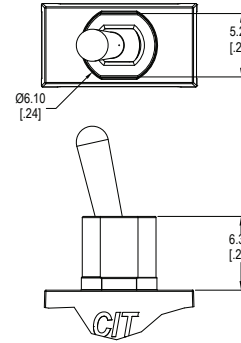
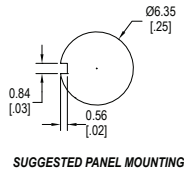
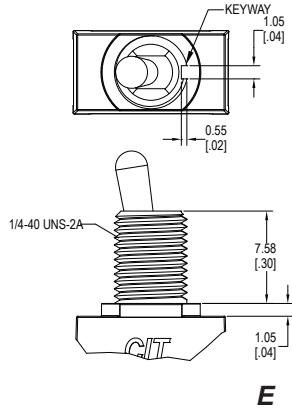


**P1**



**P2**

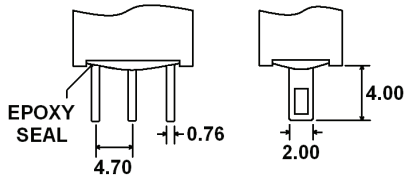
**Bushing Options**



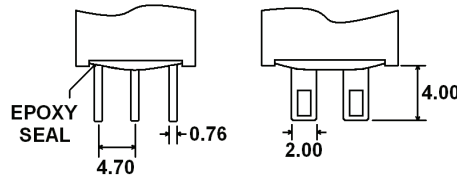
**E**

**N**

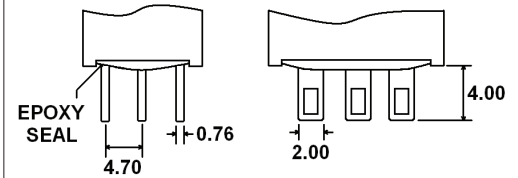
**Terminal Options**



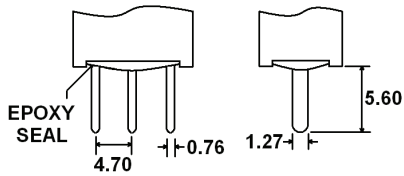
**B Single Pole**



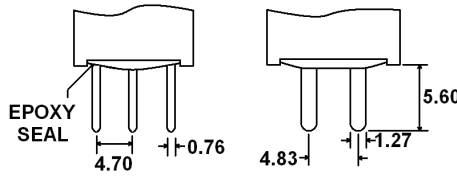
**B Double Pole**



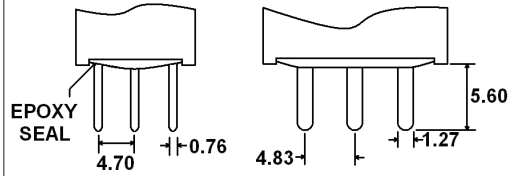
**B 3 Pole**



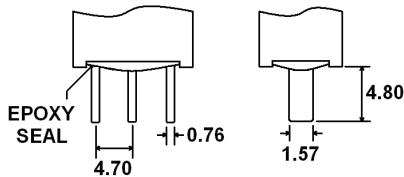
**C Single Pole**



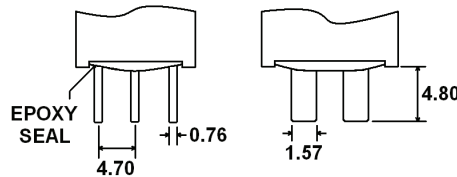
**C Double Pole**



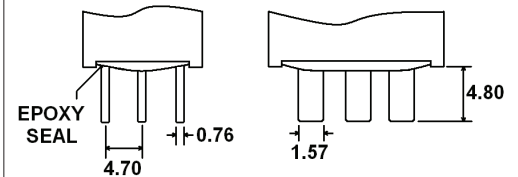
**C 3 Pole**



**D Single Pole**



**D Double Pole**

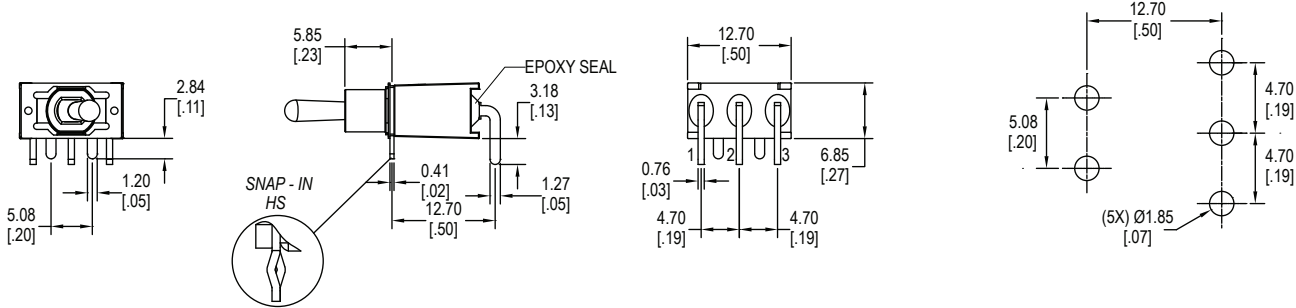


**D 3 Pole**

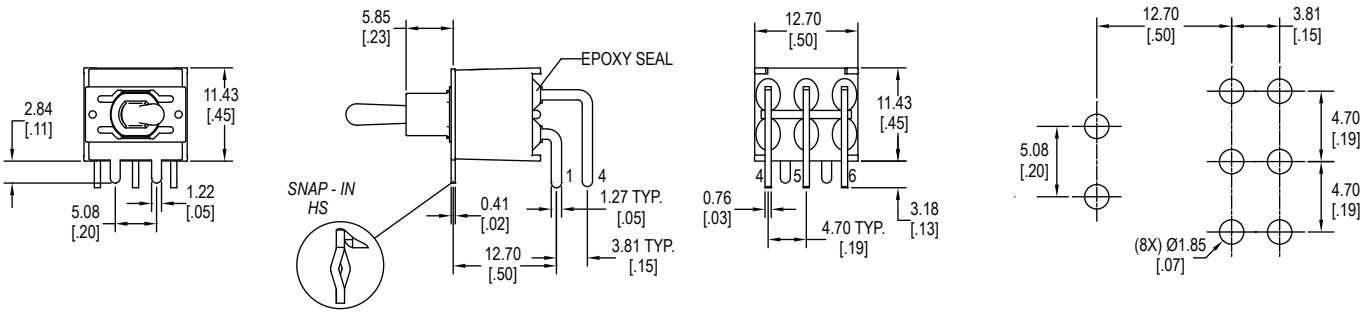
# AST

## Process Sealed Miniature Toggle

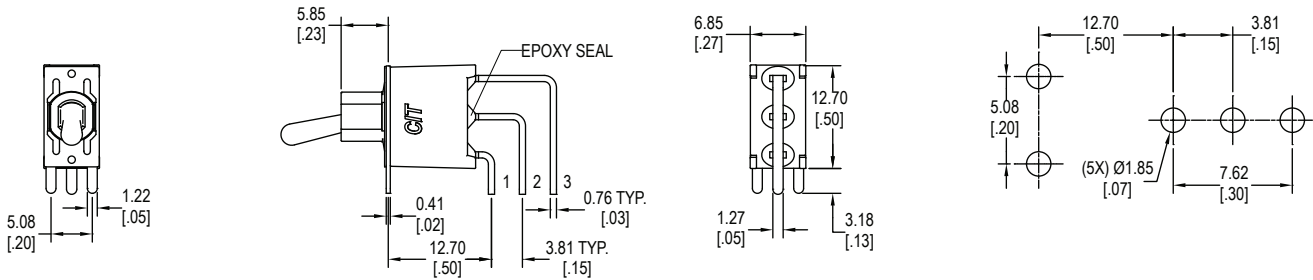
### Terminal Options



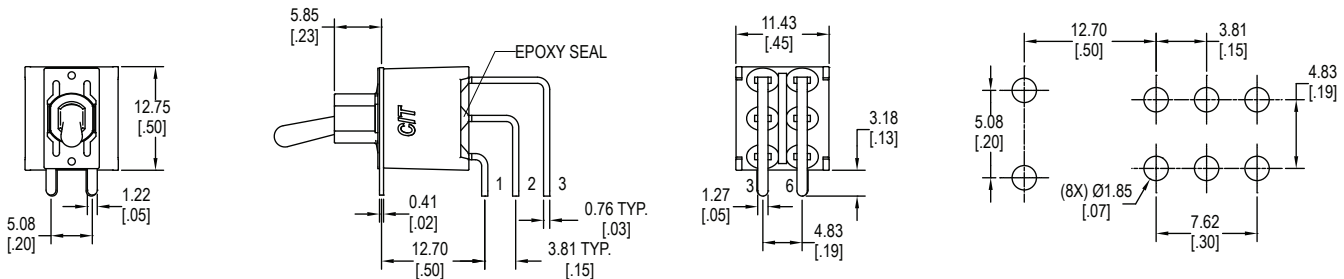
**H (HS - Snap In) = Horizontal mount, right angle PC pins, single pole**



**H (HS - Snap In) = Horizontal mount, right angle PC pins, double pole**

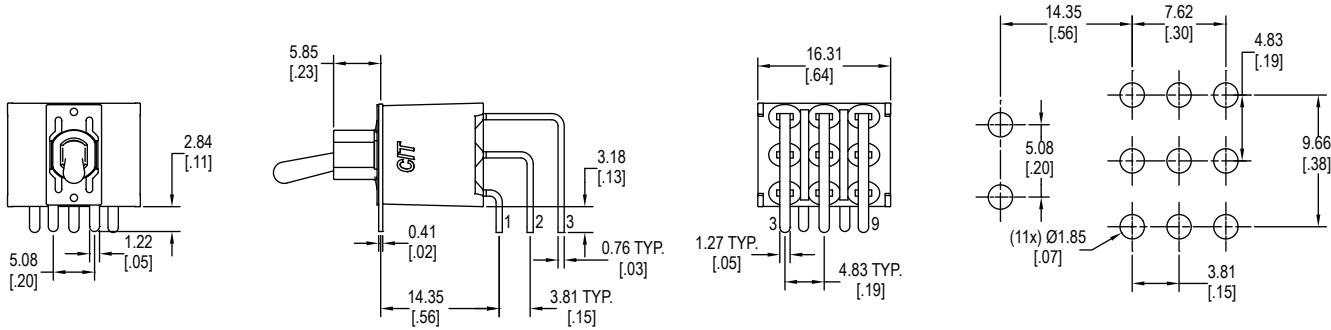


**V = Vertical mount, right angle PC pins, single pole**

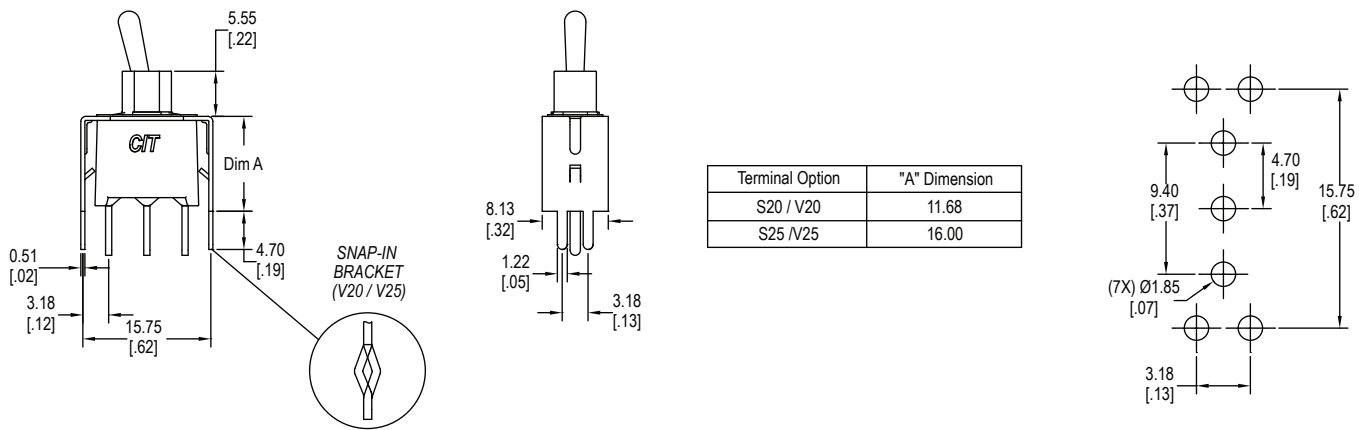


**V = Vertical mount, right angle PC pins, double pole**

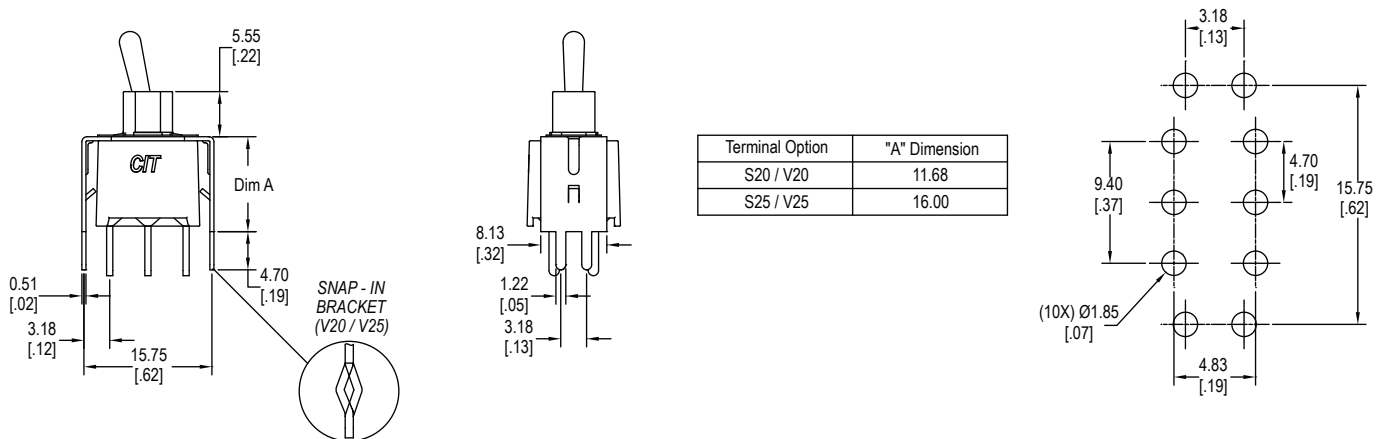
**Terminal Options**



**V = Vertical mount, right angle PC pins, three pole**



**S20 / S25 (V20 / V25 - Snap In bracket) = PC pins with support bracket, single pole**

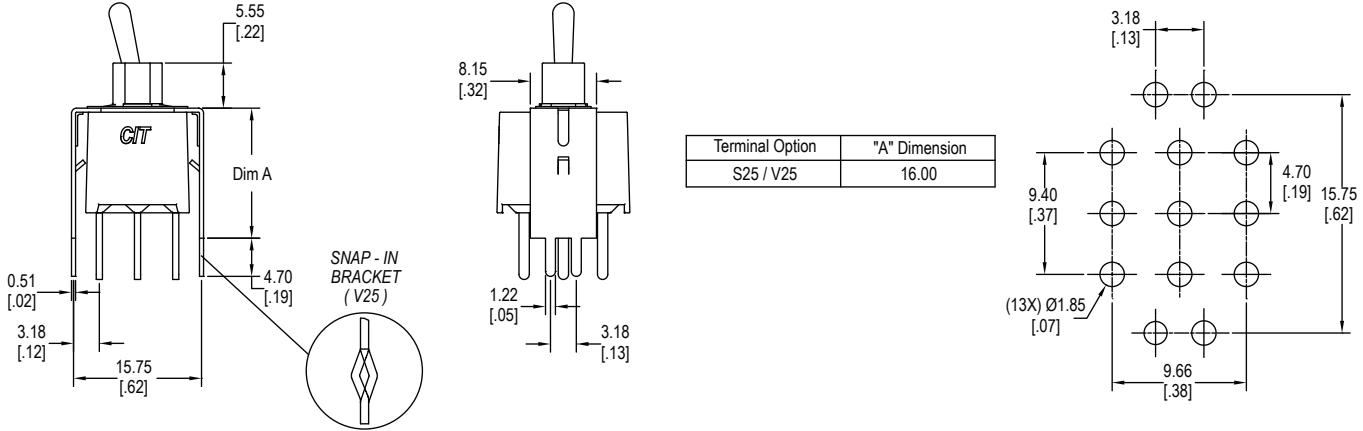


**S20 / S25 (V20 / V25 - Snap In bracket) = PC pins with support bracket, double pole**

# AST

## Process Sealed Miniature Toggle

### Terminal Options



**S20 / S25 (V20 / V25 - Snap In bracket) = PC pins with support bracket, three pole**

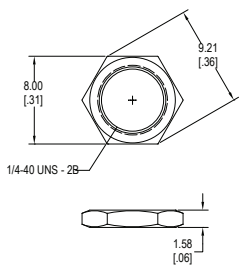
### Contact Options

Designator	Contact Material	Terminal Material	Electrical Ratings
Q	Silver Plating	Silver Plating	5A @ 120VAC, 28VDC; 2A @ 250VAC
R	Gold over Nickel Plating	Gold over Nickel Plating	0.4VA max @ 20VAC or VDC max
G	Gold over Silver Plating	Gold over Silver Plating	0.4VA max @ 20VAC or VDC max or 5A @ 120VAC, 28VDC; 2A @ 250VAC

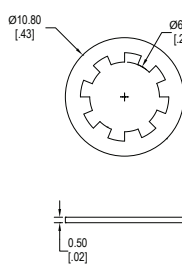
### Hardware

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

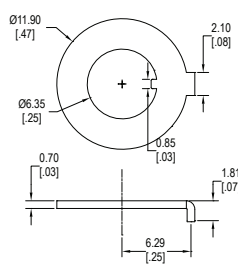
**For use with E bushings**



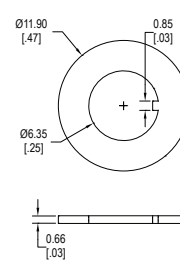
**Hex Nut**



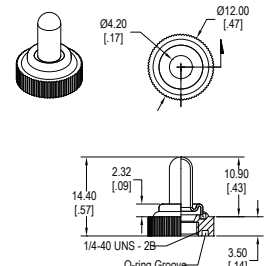
**Lock Washer**



**Locking Ring**

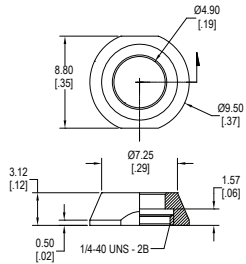


**Washer**

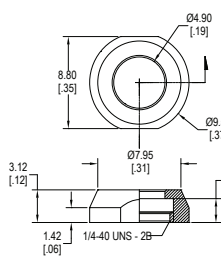


**Sealed Boot**

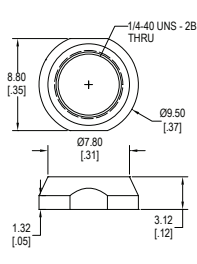
### Dress Nuts



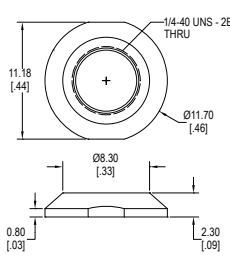
**A**



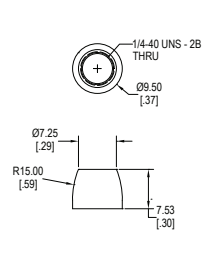
**B**



**C**



**D**



**E**