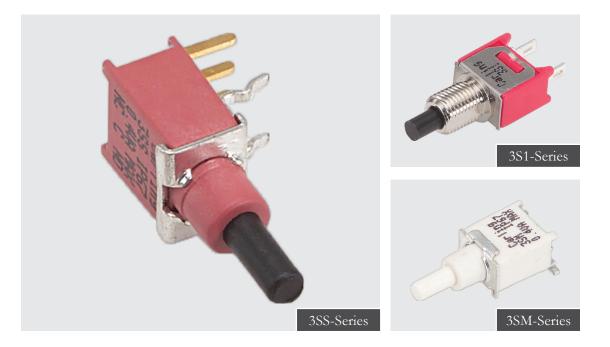
# **3S-Series** SUB-MINIATURE PUSHBUTTONS

The 3S family of sub-miniature pushbutton switches is composed of three switch series; the **3S1-Series** subminiature pushbutton switch, the **3SS-Series** sealed sub-miniature pushbutton switch, and the **3SM-Series** surface mount sealed sub-miniature pushbutton switch. All switches are available with a variety of rating, termination and actuator choices, and will withstand temperatures from -30°C to +85°C.



## **Product Highlights:**

- · IP67 Sealing
- AC or Low Voltage DC Rated
- Snap-in, PC or Surface Mounting
- Bulk Packed or Tape Reel

## **Typical Applications:**

- Telecommunications
- Performance Audio
- Networking
- Computers
- Instrumentation
- Low Power On/Off Designs

#### **Resources:**

<u>Configure a Complete Part</u>
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**3SS-Series** Sealed Sub-Miniature **Pushbutton Switch** 



**3S1-Series** Sub-Miniature Pushbutton Switch

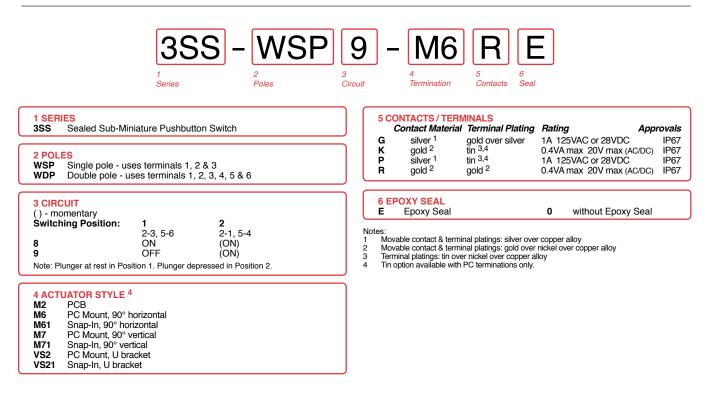


**3SM-Series** Sealed Surface Mount Sub-Miniature

Electrical		Material	
Contact Rating Electrical Life	refer to ordering scheme 50,000 make & break cycles @ full load	Case	all UL94 V-0 <i>3S1-Series:</i> Dially phthalate (DAP) <i>3SS-Series:</i> Glass filled nylon 6/6,
Contact Resistance	20 mΩ max. initial @ 2-4 VDC 100mA for both silver & gold plated contacts		flame retardant, heat stabilized <u>3SM-Series:</u> Glass filled nylon 4/6, flame retardant, heat stabilized
Insulation Resistance Dielectric Strength	1000 MΩ min. 1500 Volts RMS @ sea level	Plunger	<i>3S1-Series:</i> Thermoplastic polyester, black <i>3SS-Series:</i> Thermoplastic polyester (UL 94V-0), with internal o-ring
Physical			<i>3SM-Series:</i> Glass filled nylon 4/6, flame retardant, heat stabilized
Operating Temperature Index of Protection	-30°C to +85°C 3SS & 3SM-Series: IP67 MIL-STD-202, Method 210	Bushing	<i>3S1-Series:</i> Brass, nickel plated <i>3SS-Series:</i> Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0) <i>3SM-Series:</i> Glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0)
		Housing	Stainless Steel

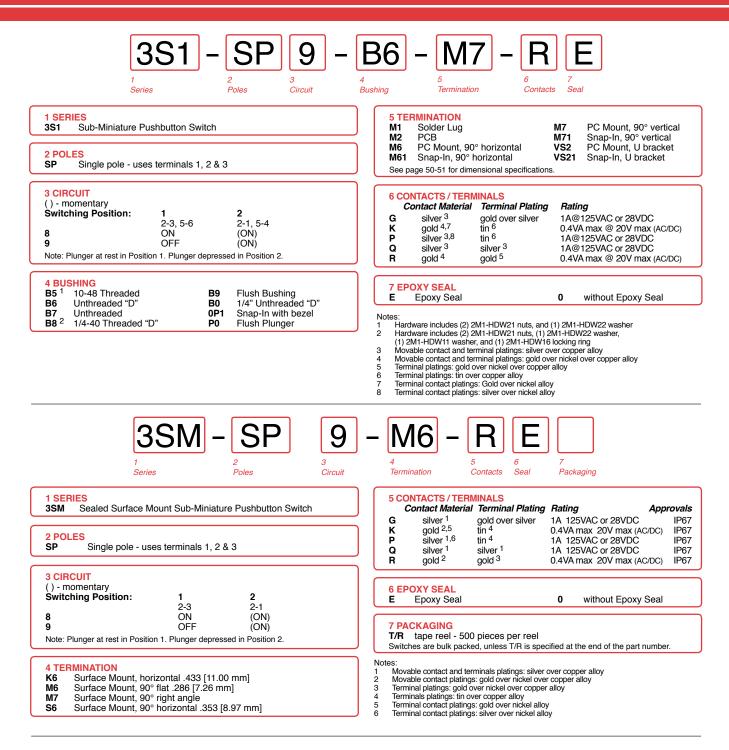
Switch Support **Terminal Seal** 

Stainless Steel Brass, tin plated Epoxy



\*Manufacturer reserves the right to change product specification without prior notice.

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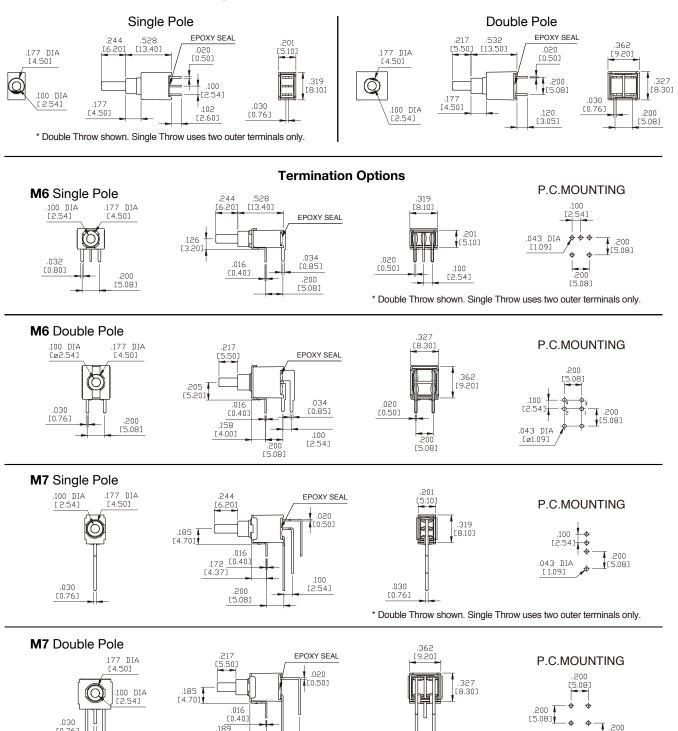
#### **3S-Series Accessories**

To order accessories assembled on a switch, specify the switch number followed by the accessory part number and the word "assembled". Ex: 3S1-SP9-B6-M7-RE-C23 ASSEMBLED. To order accessories in bulk, specify the Series, followed by the accessory. Ex: 3S1-C13.

Optional Cap	3S1 –	2 Toggle Cap Size	
1 SERIES 3S1 Fits 3SS, 3S1 or 3MS		3 CAP COLOR 1 White 2 Black	5 Yellow
2 TOGGLE CAP SIZE C1 .158" [4.01 mm] height C2 .1	38" [35.05 mm] height	3 Red 4 Orange	6 Green 7 Blue

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.201 [5.10]

.030 [0.76]

.200

[5.08]

[5.08]

.043 DIA [ø1.09]

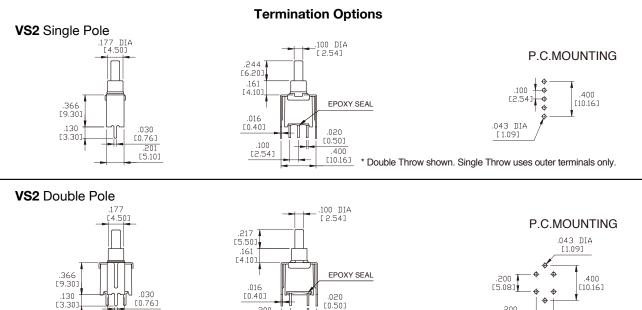
189

[4.80]

.200

[5.08]

[0.76]



## **3SS-Series Dimensional Specifications: in. [mm]**



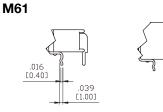
.020 [0.50]

.400 [10.16]

[0.40]

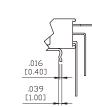
.200 [5.08]

M71

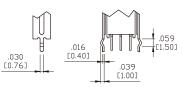


M

.201 [5.10]

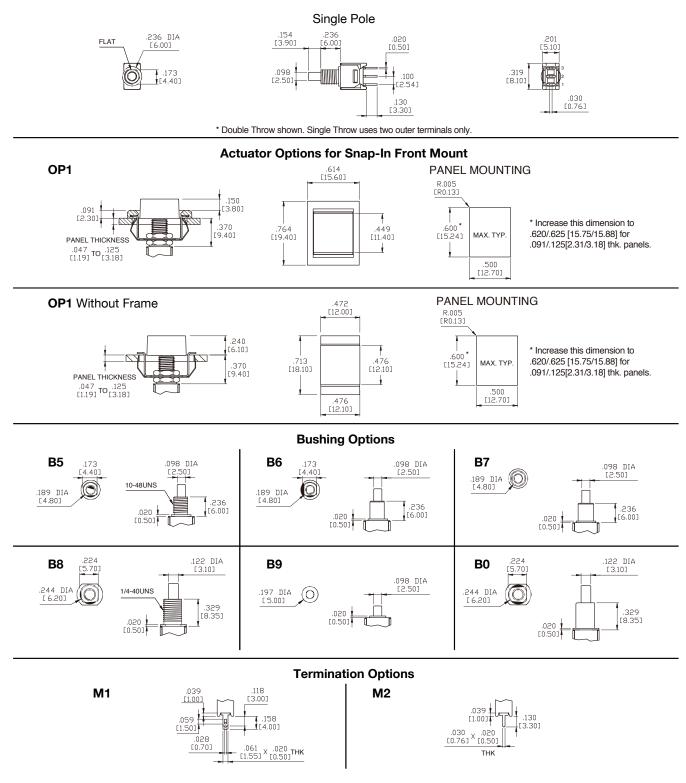




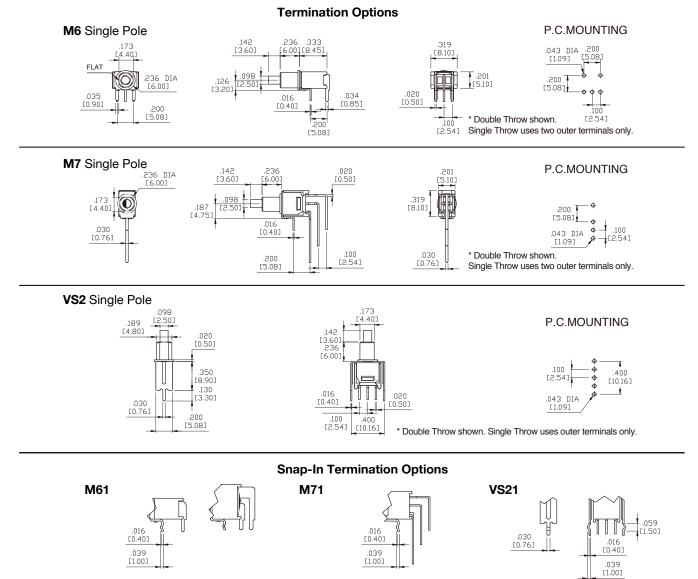


.200 [5.08]

\* PC Mounting for M61, M71, VS21 refer to M6, M7, VS2 respectively.

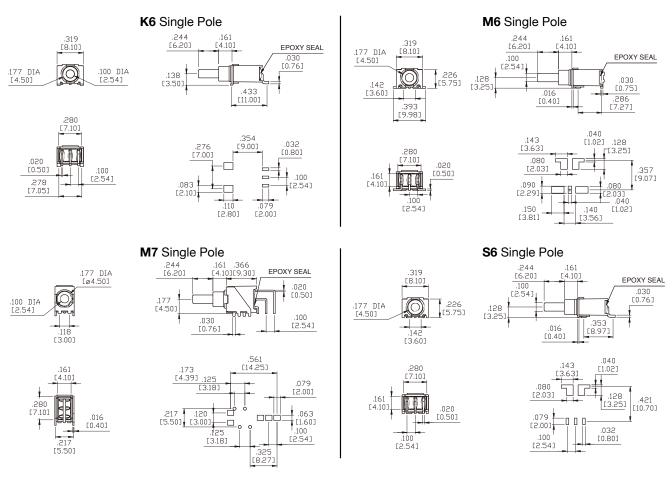


## 3S1-Series Dimensional Specifications: in. [mm]



## **3S1-Series Dimensional Specifications: in. [mm]**

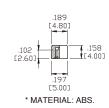
\* PC Mounting for M61, M71, VS21 refer to M6, M7, VS2 respectively.



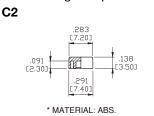
## **3SM-Series Dimensional Specifications: in. [mm]**

\* Double Throw shown. Single Throw uses two outer terminals only.

C1



## Plunger Caps



CAP COLORS					
1	White	6	Green		
2	Black	7	Blue		
3	Red	8	Brown		
4	Orange	9	Gray		
5	Yellow				

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Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

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