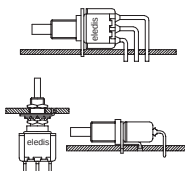


**SERIES 5A**

- **Snap acting pushbutton**



AGENCY APPROVALS



File N° E195524



File N° E195524

CHARACTERISTICS

- The most comprehensive range of terminations, brackets and bushings.
- Diallyl phthalate case and stainless steel housing.

SPECIFICATIONS

Contact Rating: **S** (silver) - 1A @ 120 VAC or 28 VDC
- **A** (gold) - 0.4 VA max @ 20 VAC or DC max - **G** (gold
on silver) - 1A @ 120 VAC or 0.4 VA max (not both)

Electrical life: 50,000 make-and-break cycles at full load

Contact Resistance: 10 mΩ max. initial @ 2-4 VDC

Insulation Resistance: 1000 MΩ min.

Dielectric Strength: 1500 VRMS @ sea level

Operating Temperature: -30°C to 85°C

MATERIALS

Case: Diallyl phthalate (DAP), (UL 94-0)

Plunger: Glass filled nylon or glass filled polyester

Bushing: Brass, nickel plated

Housing: Stainless Steel

End contacts & terminals: Copper alloy, with gold plated over nickel plated

Center Contact & Terminal: Copper alloy, with gold plated over nickel plated

HOW TO ORDER

5	A		1	-										E					
----------	----------	--	----------	----------	--	--	--	--	--	--	--	--	--	----------	--	--	--	--	--

N° OF POLES

- 1 SPDT
2 DPDT

ELECTRICAL FUNCTIONS

- 1 on (on)

ACTUATORS

- | | |
|---------------|---|
| | none |
| SF | Snap-in + frame + cap |
| SN | Snap-in + cap |
| SG | Snap-in + frame (flush) |
| JX | Snap-in w/o cap & frame |
| SL (◊) | Snap-in + cap + frame + Led Holder |
| SM (◊) | Snap-in + cap + frame +
Led Holder (flush) |

TERMINATIONS

- | | |
|-------|----------------------------|
| PC | PCB |
| W1 | Wire wrap 19.05 mm |
| W2 | Wire wrap 24.48 mm |
| W3 | Wire wrap 10.80 mm |
| W4 | Wire wrap 26.97 mm |
| ST | Solder tag |
| H9 | 90° horizontal |
| V9 | 90° vertical |
| U2 | U bracket 11.68 mm |
| U3 | U bracket 16.00 mm |
| U4 | U bracket 11.68 mm |
| U5 | U bracket 16.00 mm |
| U2S | U bracket snap-in 11.68 mm |
| U3S | U bracket snap-in 16.00 mm |
| U4S | U bracket snap-in 11.68 mm |
| U5S | U bracket snap-in 16.00 mm |
| U6(◇) | U bracket 11.68 mm |
| U7(◇) | U bracket 16.00 mm |
| U8(◇) | U bracket 11.68 mm |
| U9(◇) | U bracket 16.00 mm |
| QC | Quick connect |

CAP - FRAME COLOURS OPTIONS

- 1 White
- 2 Black (std)
- 3 Red
- 4(Δ) Orange
- 5(Δ) Yellow
- 6(Δ) Green
- 7(Δ) Blue
- 8(Δ) Brown
- 9(Δ) Gray

BUSHING

- F1** Threaded
F2 Unthreaded
F3 Threaded flat
F4 Unthreaded flat
F6  Short Unthreaded

CONTACT MATERIAL

- | | |
|----------|-----------------------|
| S | Silver (std) |
| A | Gold |
| G | Gold on silver |
| K | Tinned gold |

CAP OPTIONS

- C1** Diam. 7.7mm
C2 Diam. 9.35mm
C5 Sq. 11.7mm
C7 Diam. 5mm
C8 Diam. 5mm

SEALING

- ## E Seal

Note: No bushing required for Snap-in Actuators
 (◇) Please Enquire
 (Δ) Min qty required

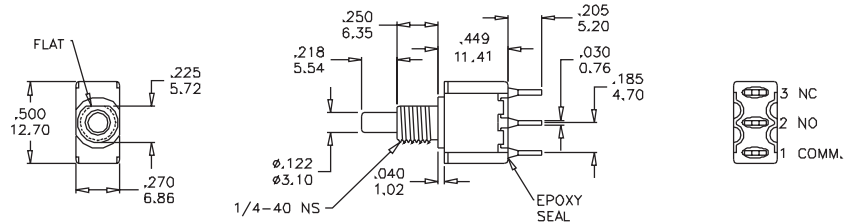
SERIES 5A

ELECTRICAL FUNCTIONS

SPDT	Type
1	on (on)
	1 - 3 1 - 2

1 Comm.
3 2 •

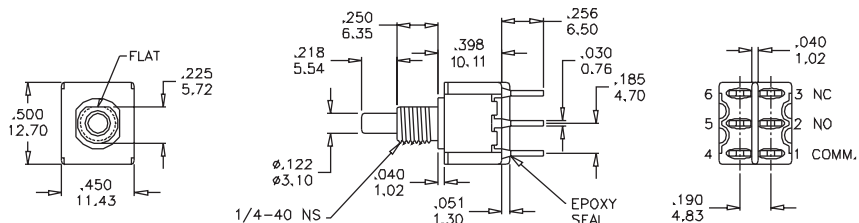
DIMENSIONS



Part N° shown: 5A11-F3PCSE

DPDT	Type
1	on (on)
	1-3, 4-6 1-2,4-5

1 Comm. 4 Comm.
3 2 • - 6 5 •

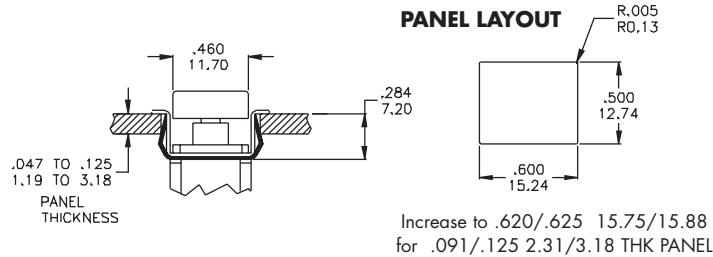


Part N° shown: 5A21-F3STSE

ACTUATORS

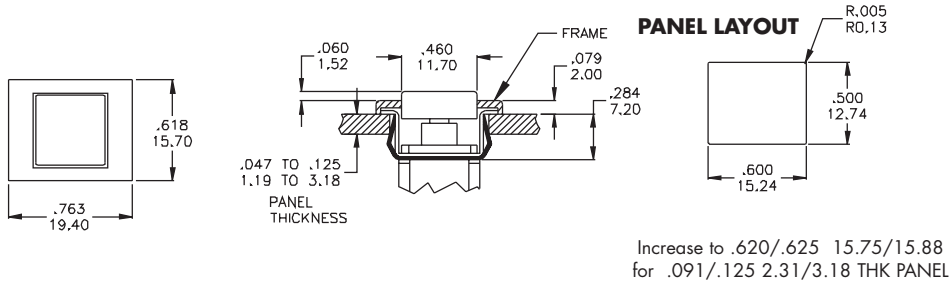
SN

Snap-in
mounting
w/o frame



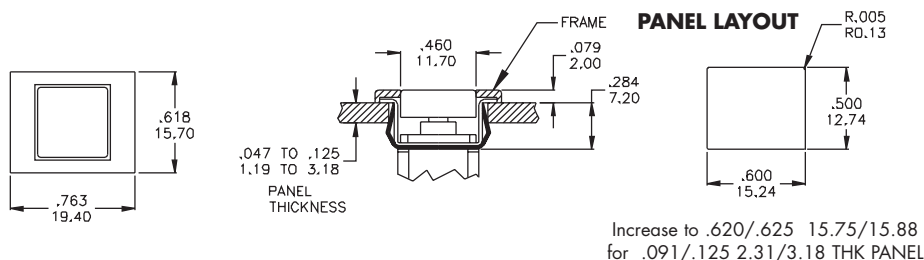
SF

Snap-in
mounting
extruding cap



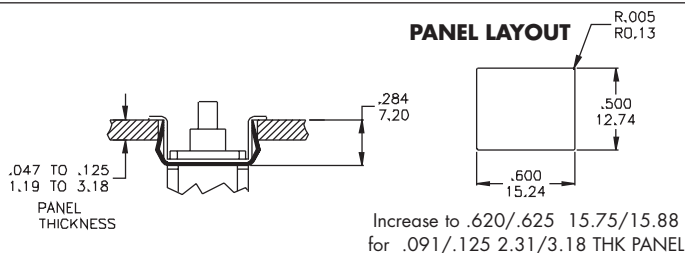
SG

Snap-in
mounting
flush cap



JX

Snap-in
mounting no
frame, no cap



∂

CAP + FRAME COLOURS OPTIONS	
1	White
2	Black (std)
3	Red
4 (Δ)	Orange
5 (Δ)	Yellow
6 (Δ)	Green
7 (Δ)	Blue
8 (Δ)	Brown
9 (Δ)	Gray

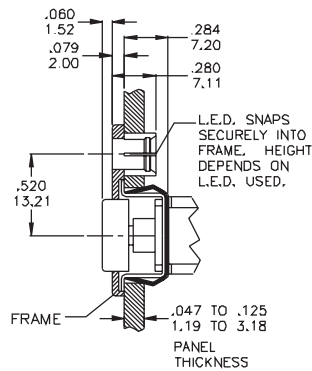
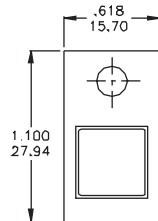


SERIES 5A

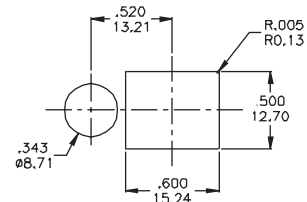
ACTUATORS

(◇)SL

Snap-in
mounting
extruding
cap
+ LED holder



PANEL LAYOUT



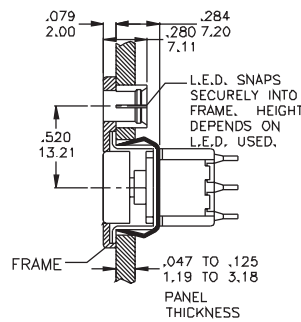
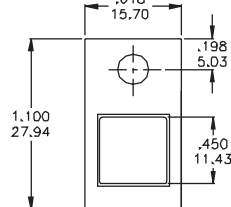
(◇) Please Enquire

CAP + FRAME COLOURS OPTIONS

- 1 White
- 2 Black (std)
- 3 Red
- 4 (Δ) Orange
- 5 (Δ) Yellow
- 6 (Δ) Green
- 7 (Δ) Blue
- 8 (Δ) Brown
- 9 (Δ) Gray

(◇)SM

Snap-in
mounting flush
cap
+ LED holder

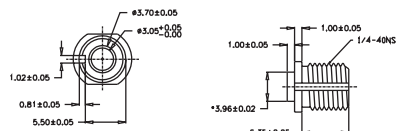


(◇) Please Enquire

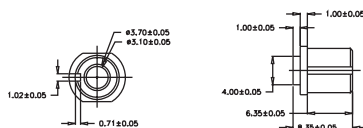
Note: To order Cap and Frame separately, use C5 and B5 accessories only.

BUSHING

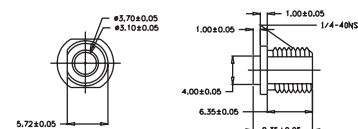
F1 Threaded (std)



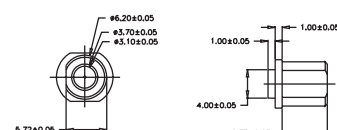
F2 Unthreaded



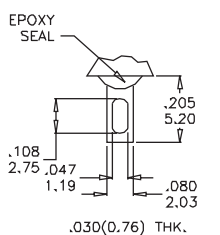
F3 Threaded



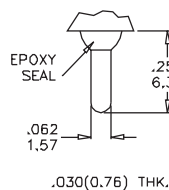
F4 Unthreaded



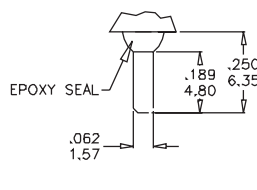
TERMINATIONS



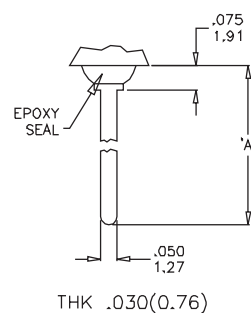
ST



PC



QC



THK .030(0.76)

Dim. A

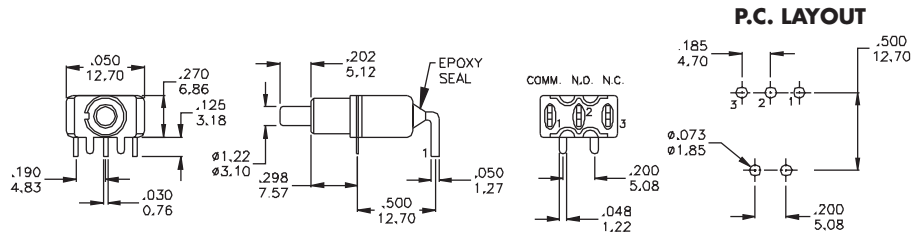
W1	.750 (19.05)
W2	.964 (24.48)
W3	.425 (10.80)
W4	1.062 (26.97)

Epoxy seal standard with all models

SERIES 5A

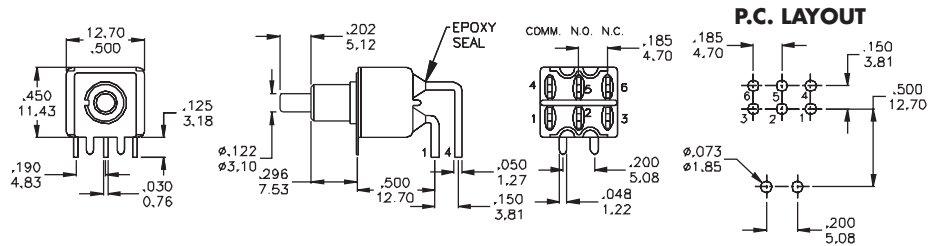
TERMINATIONS

H9
SPDT



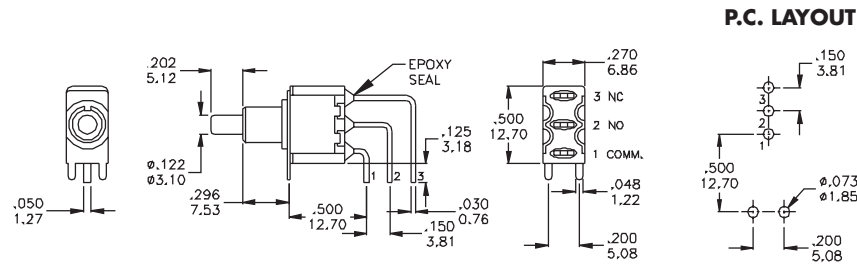
Part N° shown: 5A11-F2H9AE

H9
DPDT



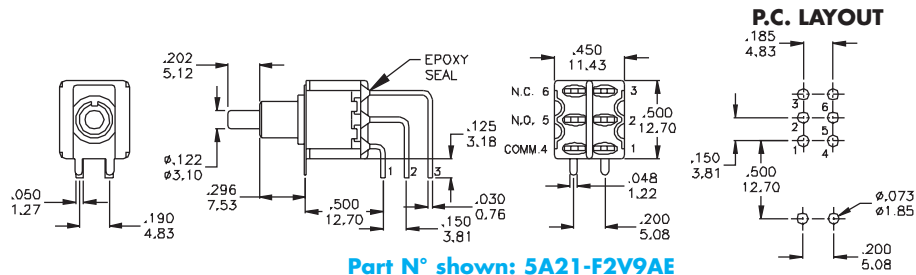
Part N° shown: 5A21-F2H9AE

V9
SPDT



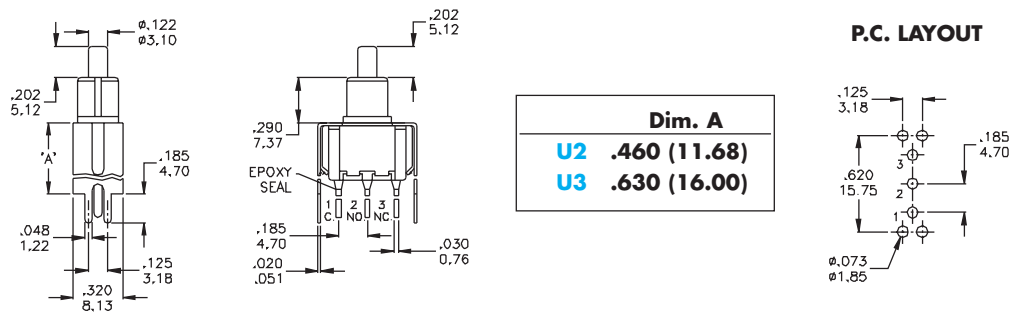
Part N° shown: 5A11-F2V9AE

V9
DPDT



Part N° shown: 5A21-F2V9AE

U2 - U3
SPDT



Part N° shown: 5A11-F2U_AE

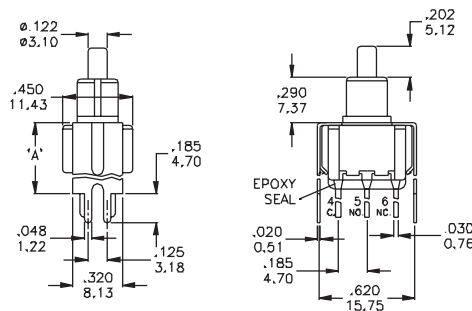
Dim. A	
U2	.460 (11.68)
U3	.630 (16.00)



SERIES 5A

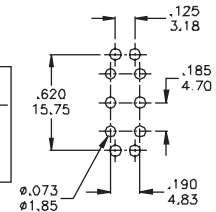
TERMINATIONS

U2 - U3 DPDT



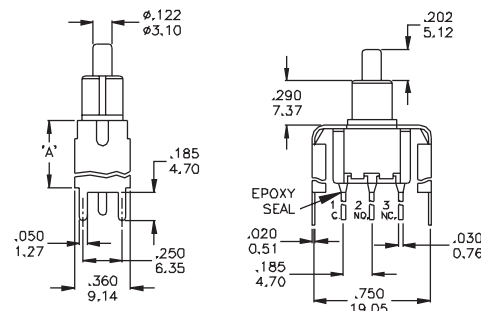
Dim. A	
U2	.460 (11.68)
U3	.630 (16.00)

P.C. LAYOUT



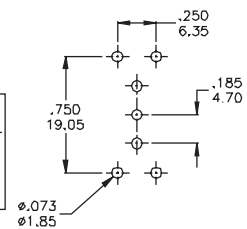
Part N° shown: 5A21-F2U_AE

U4 - U5 SPDT



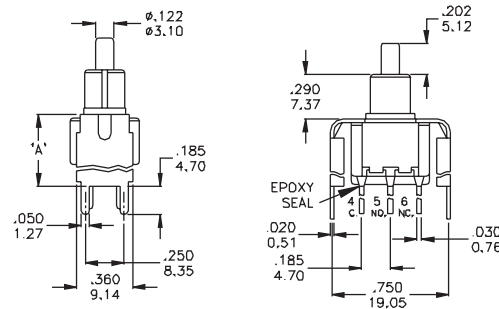
Dim. A	
U4	.460 (11.68)
U5	.630 (16.00)

P.C. LAYOUT



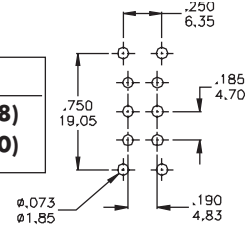
Part N° shown: 5A11-F2U_AE

U4 - U5 DPDT



Dim. A	
U4	.460 (11.68)
U5	.630 (16.00)

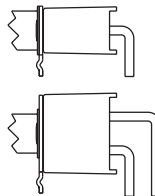
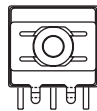
P.C. LAYOUT



Part N° shown: 5A21-F2U_AE

Snap-in termination options

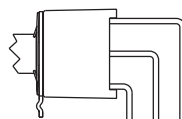
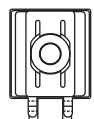
H9S



U2S U3S



V9S



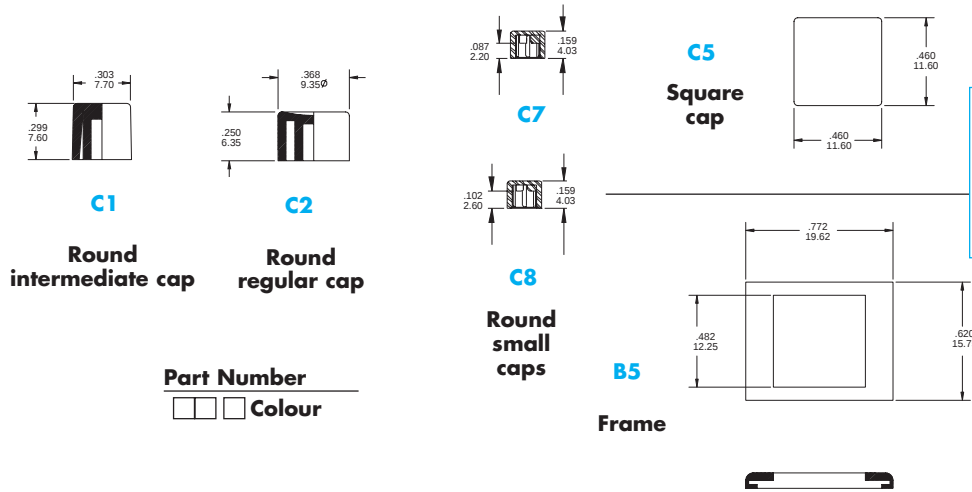
U4S U5S



H9S, V9S, U2S, U3S, U4S, U5S have the same P.C layout but are supplied with snap-in bracket to grip onto the PCB

SERIES 5A

CAP ACCESSORIES



CAP - FRAME COLOURS OPTIONS

- | | |
|---------------|----------|
| 1 White | 6△ Green |
| 2 Black (std) | 7△ Blue |
| 3 Red | 8△ Brown |
| 4△ Orange | 9△ Gray |
| 5△ Yellow | |

CONTACT MATERIALS

CONTACT RATINGS

S (std) **Moving Contacts:** coin silver
Terminals: copper alloy, silver plated
Rating: 2 Amps with resistive load @ 250 VAC
 5 Amps with resistive load @ 125 VAC or 28 VDC

A **Moving Contacts:** copper alloy with gold plating over nickel plating
Terminals: copper alloy with gold plating over nickel plating
Rating: 0.4 Volts/Amps max @ 20 Volts max (AC or DC)

K Same as **A**, but with pre-tinned terminals

G **Moving Contacts:** gold plating over silver
End Terminals: gold plating over silver
Center Terminals: gold plating over copper alloy, silver plated
Note: **G** option used for either "high" (2 Amps @ 250 VAC) or "low" (0.4 Volts/Amps max) contact rating (one exclude the other)

PACKAGING

Transparent Trays 15x21x4 cm



Each box contains 100 pcs

MARKING (on products)

The switches are individually marked with the following information:

- Side 1** TRADE MARK
SERIES AND MODEL
DATE CODE
- Side 2** RATING
CONTACTS

Note: Not all information may be available on some products.

LABELLING (on packaging)

The label on each tray gives full information on the products contained.

P/N:	
EL.FNC.:	
Q.TY:	
DATE CODE:	
Made in Taiwan	
Remarks	

A Bar code indicating Model, Quantity, Date Code enables easy traceability.