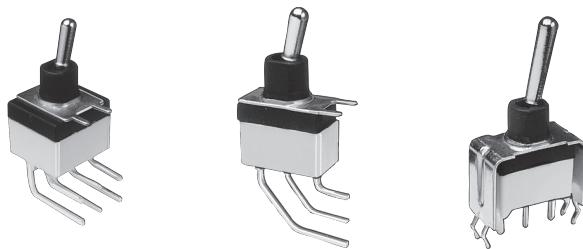




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## S SERIES - WASHABLE MINIATURE TOGGLE SWITCHES, P.C. MOUNTING



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

### FEATURES

- Wave solderable.
- Fully sealed for process compatibility.
- SPDT & DPDT models.
- Compact case size with ESD protection options.
- Agency recognition (see below).

### SPECIFICATIONS

Contact ratings (resistive loads):	Gold plated brass; 0.4 Volt-Amps max. at 20 V max. Silver; 2 Amps at 250 VAC, 5 Amps at 125 VAC or 4 Amps at 30 VDC. Gold plated silver; 2 Amps at 250 VAC, 5 Amps at 125 VAC or 4 Amps at 30 VDC. Gold plating withstands up to 300 mA at 30 VDC.
Initial contact resistance:	10 milliohms maximum
Insulation resistance:	1000 megohms minimum
Dielectric strength:	1000 V rms minimum
Electrical life:	Gold: 2 positions - 100,000 cycles min. 3 positions - 50,000 cycles min. Silver: 40,000 cycles minimum.
Operating temperature range:	-20°C to +85°C
Washing:	Permissible with water, detergents and freons.

### MATERIALS

Contacts & Terminals:	Gold plated brass, silver or gold plated silver
Actuator:	Chrome plated brass
Bracket:	Tin plated steel
Case:	UL94V-0 - Polyamide, glass filled or PES
Terminal seal:	Epoxy

### AGENCY RECOGNITION



UL, CECC, GAM T1 (military)

Availability: consult factory for details of recognized models.

Marking: to order switches marked UL or CECC, complete the appropriate box of the ordering format.

GAM T1 listing does not appear on the switches.

### ABOUT THIS SERIES

The material in this series is organized in the following sequence:

- Completely specified switch models
- 'build your own switch' order format
- Option drawings & special options
- Miscellaneous



## S SERIES - WASHABLE MINIATURE TOGGLE SWITCHES, P.C. MOUNTING

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### Horizontal right angle terminals - .185" spacing - gold plated brass contacts

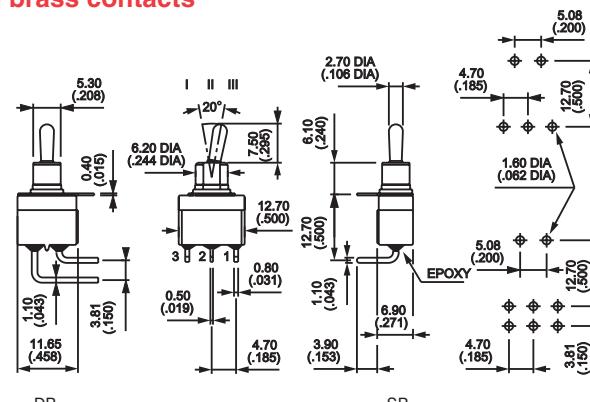


SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SINGLE POLE MODEL NO.	DOUBLE POLE MODEL NO.	CIRCUIT
SW236CD7	SW246CD7	ON - ON
SW239CD7	SW249CD7	ON OFF ON
SW237CD7	SW247CD7	MOM OFF MOM
SW238CD7	SW248CD7	ON OFF MOM
SW232CD7	SW242CD7	ON - MOM
-	SW244THCD7*	ON ON ON

Handle position (see dwg.):  
Terminals connected: SP & DP  
DP 2-3 2-1  
DP 5-6 4-5

\* Function 4: SP in DP case - see diagram at end of section.



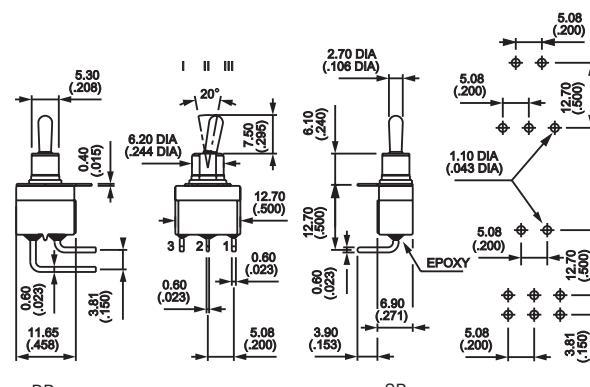
### Horizontal right angle terminals - .200" spacing - gold plated brass contacts



SINGLE POLE MODEL NO.	DOUBLE POLE MODEL NO.	CIRCUIT
SW036CD7	SW046CD7	ON - ON
SW039CD7	SW049CD7	ON OFF ON
SW037CD7	SW047CD7	MOM OFF MOM
SW038CD7	SW048CD7	ON OFF MOM
SW032CD7	SW042CD7	ON - MOM
-	SW044THCD7*	ON ON ON

Handle position (see dwg.):  
Terminals connected: SP & DP  
DP 2-3 2-1  
DP 5-6 4-5

\* Function 4: SP in DP case - see diagram at end of section.



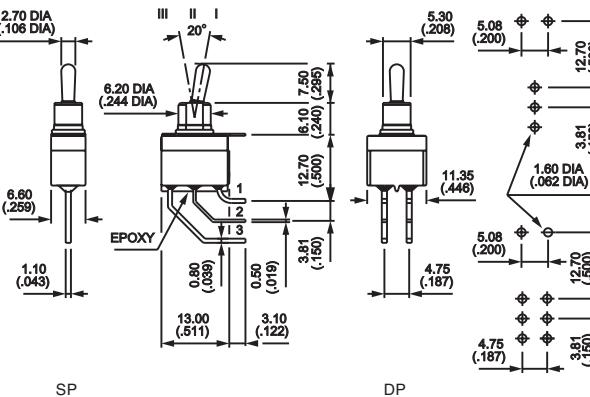
### Vertical right angle terminals - gold plated brass contacts



SINGLE POLE MODEL NO.	DOUBLE POLE MODEL NO.	CIRCUIT
SWW236CD7	SWW246CD7	ON - ON
SWW239CD7	SWW249CD7	ON OFF ON
SWW237CD7	SWW247CD7	MOM OFF MOM
SWW238CD7	SWW248CD7	ON OFF MOM
SWW232CD7	SWW242CD7	ON - MOM
-	SWW244THCD7*	ON ON ON

Handle position (see dwg.):  
Terminals connected: SP & DP  
DP 2-3 2-1  
DP 5-6 4-5

\* Function 4: SP in DP case - see diagram at end of section.



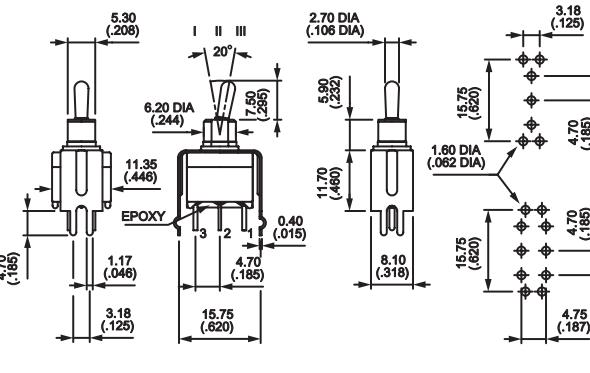
### Straight p.c. terminals - mounting bracket - gold plated brass contacts



SINGLE POLE MODEL NO.	DOUBLE POLE MODEL NO.	CIRCUIT
SY236CD7	SY246CD7	ON - ON
SY239CD7	SY249CD7	ON OFF ON
SY237CD7	SY247CD7	MOM OFF MOM
SY238CD7	SY248CD7	ON OFF MOM
SY232CD7	SY242CD7	ON - MOM
-	SY244THCD7*	ON ON ON

Handle position (see dwg.):  
Terminals connected: SP & DP  
DP 2-3 2-1  
DP 5-6 4-5

\* Function 4: SP in DP case - see diagram at end of section.





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## S SERIES - WASHABLE MINIATURE TOGGLE SWITCHES, P.C. MOUNTING

**Additional ordering information:** Commonly ordered models are shown above with complete model numbers and specifications. Below is an order format that enables you to 'build your own switch' and specify the correct switch model number by simply selecting from all available options shown and filling in the boxes.

### 'BUILD YOUR OWN SWITCH' ORDER FORMAT

Fill in boxes with selections shown for **Model Structure**, then add **Options** selections for complete model number.

Allowable options are shown below each respective box.

Note: 'NONE' indicates box may be left empty.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

#### Model Structure:

Series	Terminals	Bushing & terminals	Number of poles	Electrical functions
S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W	horizontal rt. angle mtg.	2 Terminal spacing .185" (4.7mm) or .150" (3.81mm)	3 Single pole	6 ON - ON
W W	vertical rt. angle mtg.	0 Terminal spacing .200" (5.08mm)	4 Double pole	9 ON OFF ON
Y	Bracket mtg.	(SY & SW models)		7 MOM OFF MOM
		All models have plain bushing		8 ON OFF MOM
				2 ON - MOM
				4 T H ON ON ON

#### Options:

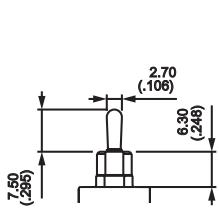
Contact materials	Actuators	Agency recognition	Special options
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A Silver	7 Short (standard)	(NONE)	(NONE)
A D Silver, gold plated	1 3 Long	U L C E C C	F
C D Brass, gold plated	1 1 Long 8 Short	Consult factory for availability.	X 6 0 1 X 6 9 6
Examples of completely specified model numbers: <b>SW236CD7, SW244THAD11ULX696</b>			

Although most combinations of options are available, some may result in incompatibilities. Consult factory if there is any question.

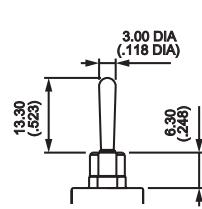
### OPTION DRAWINGS

#### ACTUATORS

##### CHROME PLATED BRASS



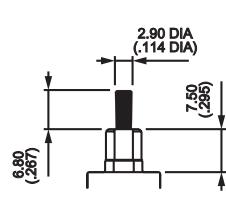
7 Standard



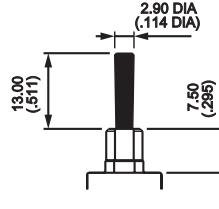
13 Long

##### INSULATED

Protects against electrostatic discharges (ESD) up to 12 KV.  
Color: black Note: must be ordered with option X696.



8 Short



11 Long

#### SPECIAL OPTIONS

**F** Tin plated terminals.

**X601** Silver plated brass contacts. Lower rating. Minimum quantity: 5000 pcs.

**X696** Longer bushing - .295" (7.5mm). Specify for actuators 8 and 11.

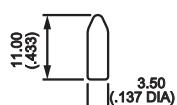


# S SERIES - WASHABLE MINIATURE TOGGLE SWITCHES, P.C. MOUNTING

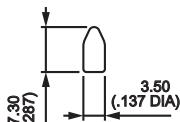
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## OPTION DRAWINGS & MISCELLANEOUS

### INSULATING CAPS (replace '0' in part numbers with color code)



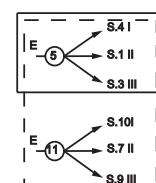
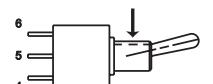
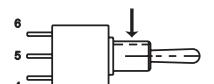
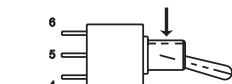
U270 For actuator 13



U1710 For actuator 7

1	blue
2	black
3	green
4	grey
5	yellow
6	red
7/1	white
9	orange

### WIRING for function 4 switch



Above diagrams are viewed from bottom of switch.

Equivalent to single pole 3 throw switch. Dotted lines between terminals 2 & 6 and 8 & 12 indicate external jumpers to be added by customer

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE