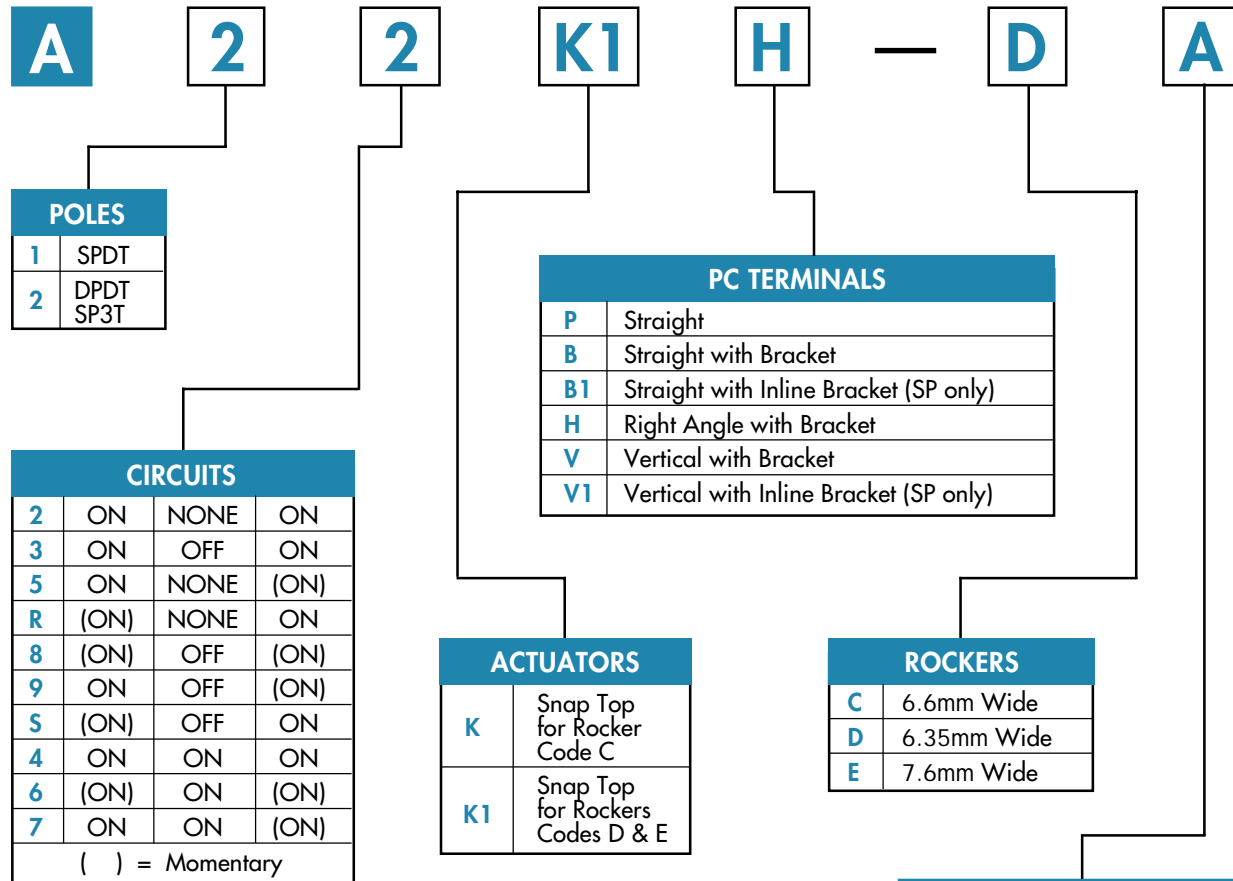


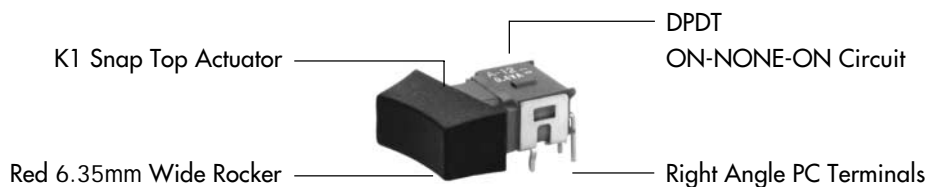


TYPICAL SWITCH ORDERING EXAMPLE



COLORS		
	Rocker C	Rockers D & E
A	Black	A
B	White	B
C	Red	C
E	Yellow	---
F	Green	---
G	Blue	---
H	Gray	---

DESCRIPTION FOR
TYPICAL ORDERING EXAMPLE
A22K1H-DA





GENERAL SPECIFICATIONS

Electrical Capacity (Resistive Load)

Logic Level: 0.4VA maximum @ 28V AC/DC maximum
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Note: See [Supplement Index](#) to find explanation of operating range.

Other Ratings

Contact Resistance: 50 milliohms maximum
Insulation Resistance: 500 megohms minimum @ 500V DC
Dielectric Strength: 500V AC minimum
Mechanical Life: 100,000 operations minimum for On-None-On & On-Off-On
50,000 operations minimum for other circuits
Electrical Life: 50,000 operations minimum
Nominal Operating Force: K actuator with Long Paddle: 150 grams (momentary); 120 grams (maintained)
K actuator with Short Paddle: 278 grams (momentary); 188 grams (maintained)
Contact Timing: Nonshorting (break-before-make)
Angle of Throw: 26°

Materials & Finishes

Actuator or Toggle: Nickel plated brass
Case Housing: Glass fiber reinforced polyamide
Support Bracket: Tin plated phosphor bronze
Movable Contact: Phosphor bronze with gold plating over silver plating
Stationary Contacts: Brass with gold plating over nickel undercoating

Environmental Data

Operating Temp Range: -30°C through +85°C (-22°F through +185°F)
Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock: 50g acceleration (tested in 6 right angled directions, with 3 shocks in each direction)

Installation

Cap Installation Force: 3.0 kg (6.6 lbs) maximum downward force on actuator
Soldering Time & Temperature: 3 seconds @ 350°C or 5 seconds @ 270°C
Process Seal: See [Supplement Index](#) for specific processing data.

Standards & Certifications








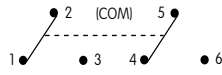
IECQ Approved: All rocker models recognized at 0.4VA maximum @ 28V AC/DC maximum
Qualification Approval Number: JP792-3A



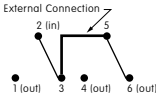
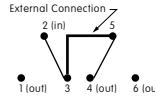
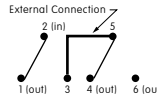
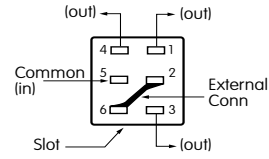
Series A

Washable Subminiature Rocker Switches

POLES & CIRCUITS

		Rocker Position () = Momentary			Connected Terminals			Throw & Schematics
Pole	Model	Up 	Center 	Down 	Up 	Center 	Down 	Note: Terminal numbers are not actually on the switch.
SP	A12	ON	NONE	ON	2-3	OPEN	2-1	SPDT 
	A13	ON	OFF	ON				
	A15	ON	NONE	(ON)				
	A1R	(ON)	NONE	ON				
	A18	(ON)	OFF	(ON)				
	A19	ON	OFF	(ON)				
	A1S	(ON)	OFF	ON				
DP	A22	ON	NONE	ON	2-3 5-6	OPEN	2-1 5-4	DPDT 
	A23	ON	OFF	ON				
	A25	ON	NONE	(ON)				
	A2R	(ON)	NONE	ON				
	A28	(ON)	OFF	(ON)				
	A29	ON	OFF	(ON)				
	A2S	(ON)	OFF	ON				

For 3 Throw (3-On)

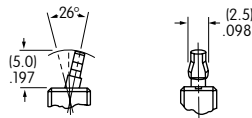
Connected Terminals & Schematics				External Connection
Pole	Model	Up	Center	Down
SP	A24 A26 A27	ON	ON	ON
		(ON)	ON	(ON)
		ON	ON	(ON)
				
		2-3 5-6	2-3 5-4	2-1 5-4
<p>The SP3T model utilizes a double pole base.</p> <p>External connections must be made during field installation.</p> 				

ACTUATORS



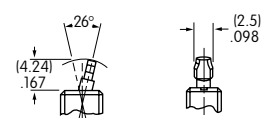
Snap Top

For Rocker AT469



Snap Top

For Rockers AT062 and AT066





Series A

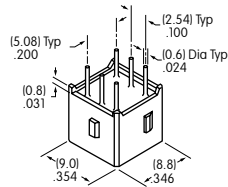
Washable Subminiature Rocker Switches

PC TERMINALS

Use of a support bracket or placement of the square bushing in a panel cutout increases PCB mounting stability.

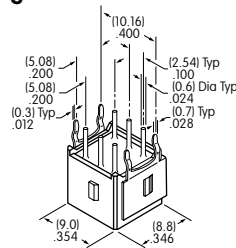
P

Straight



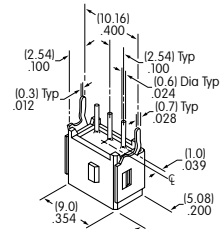
B

Straight with Bracket



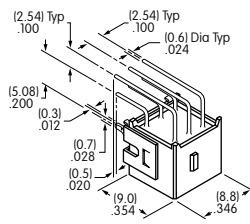
B1

Straight with Inline Bracket (SP only)



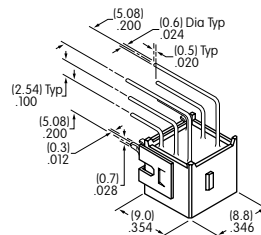
H

Right Angle with Bracket



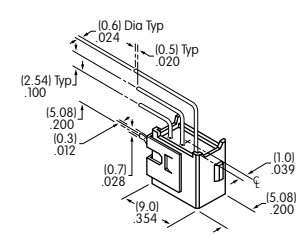
V

Vertical with Bracket



V1

Vertical with Inline Bracket (SP only)



ROCKERS & COLORS

C

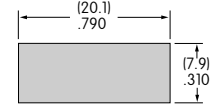
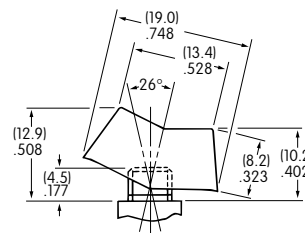
**AT469
6.6mm Wide Rocker**

Antirotational

Material: PBT

Colors Available:

A, B, C, E, F, G, H



D

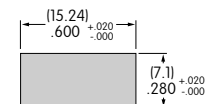
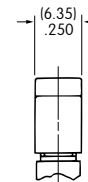
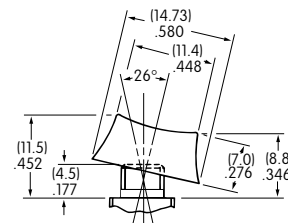
**AT062
6.35mm Wide Rocker**

Antirotational

Material: Polyamide

Colors Available:

A, B, C



E

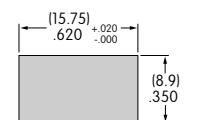
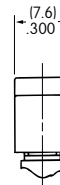
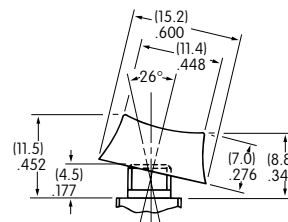
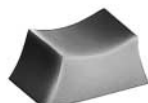
**AT066
7.6mm Wide Rocker**

Antirotational

Material: Polyamide

Colors Available:

A, B, C



Color Codes:

A

Black

B

White

C

Red

E

Yellow

F

Green

G

Blue

H

Gray

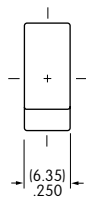


TYPICAL SWITCH DIMENSIONS

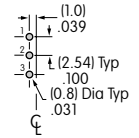
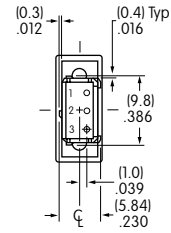
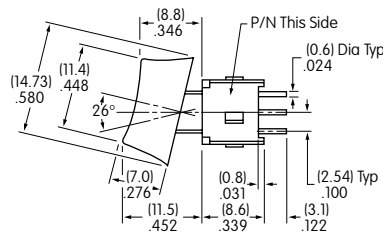
Straight PC



A12K1P-DA



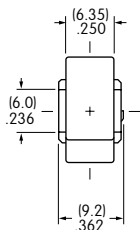
Single Pole



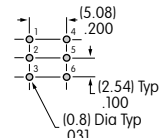
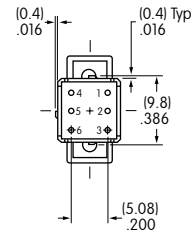
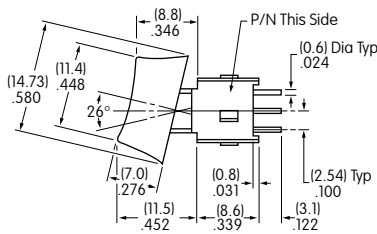
Straight PC



A22K1P-DA



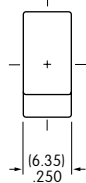
Double Pole



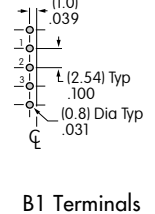
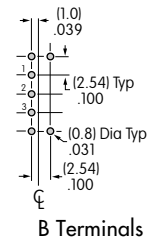
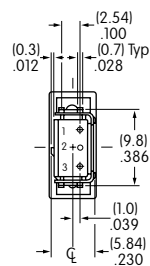
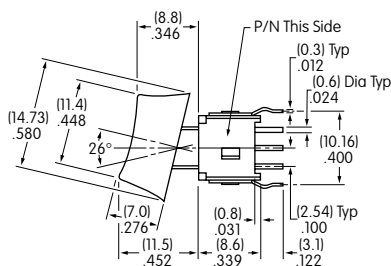
Straight PC • Bracket



A12K1B-DA



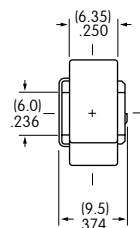
Single Pole



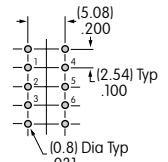
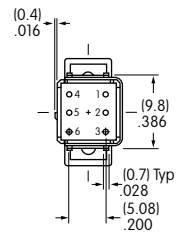
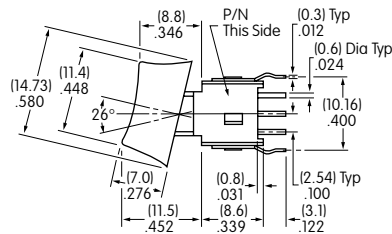
Straight PC • Bracket



A22K1B-DA



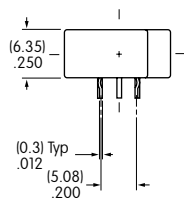
Double Pole



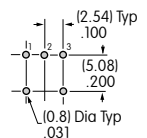
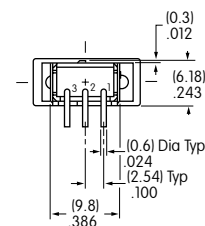
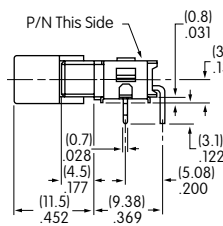
Right Angle PC



A12K1H-DA



Single Pole





Series A

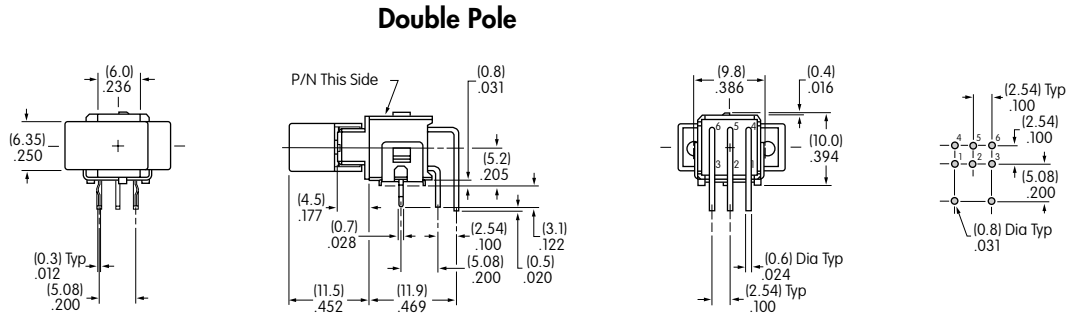
Washable Subminiature Rocker Switches

TYPICAL SWITCH DIMENSIONS

Right Angle PC



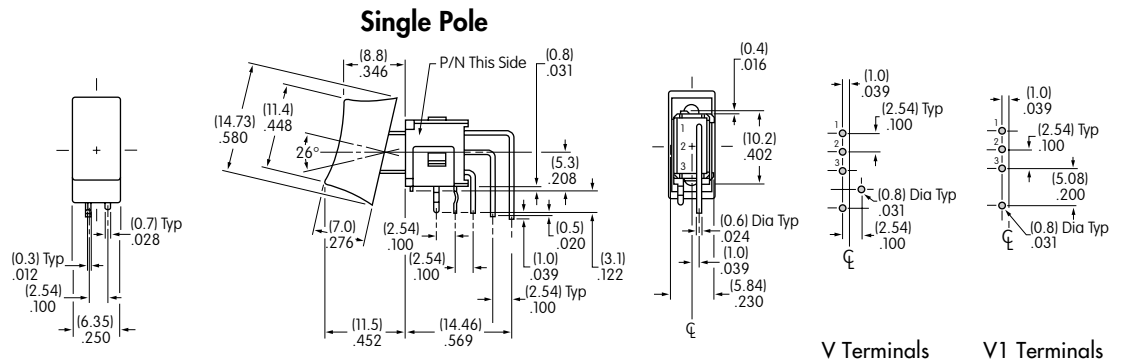
A22K1H-DA



Vertical PC



A12K1V-DA



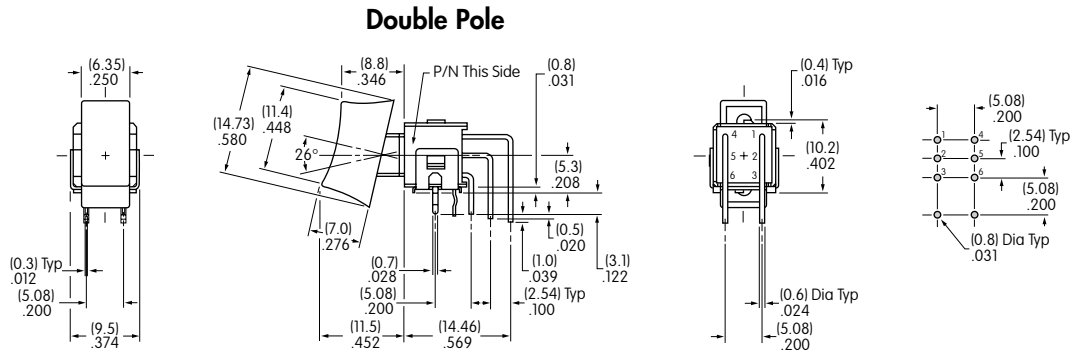
V Terminals

V1 Terminals

Vertical PC



A22K1V-DA



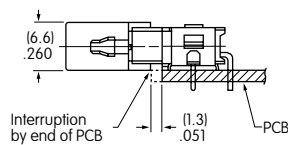
ROCKER MOUNTING PRECAUTION

Rocker switches with vertical and right angle terminals must be mounted so that extension of the PC board beyond the top of the switch housing does not interrupt rocker movement, in turn causing incomplete switching operation.

The MAXIMUM limit of the PC board extension is 1.3mm (.051"), as illustrated below.

This precaution does not apply to the double pole switch with right angle terminals due to the extra width of the switch allowing the rocker to clear the PC board.

End View of Rocker
Right Angle Mounting PC
Single Pole Only



Side View of Rocker
Vertical Mounting PC
Single and Double Pole

