

Distinctive Characteristics

.244" (6.2mm) square body allows compact mounting.

Heat resistant resin body meets lead-free solder processing requirements and UL flammability rating of 94V-0.

Stick-tube packaging allows rapid automated placement of devices.

Gold plated contacts available for very low voltage/current applications offer advantages of little or no oxidization or sulfurization and stable contact resistance.

Crimped terminals provide a spring type action which ensures secure mounting and prevents dislodging during automated soldering.



Insert molded terminals lock out flux, solvents, and other contaminants and allow automated soldering.

Actual Size





General Specifications

Electrical Capacity (Resistive Load)

Power Level (code P2): 3VA maximum @ 28V DC maximum

(Applicable Range 10mA ~ 125mA @ 0.1V ~ 28V)

Logic Level (code P4): 0.4VA maximum @ 28V AC/DC maximum

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Note: See Supplement for further explanation of operating range.

Other Ratings

Contact Resistance: 100 milliohms maximum

Insulation Resistance: 100 megohms minimum @ 100V DC

Dielectric Strength: 250V AC minimum for 1 minute minimum between contacts & between contacts & case

Mechanical Life: 500,000 operations minimum 500,000 operations minimum

Nominal Operating Force: 1.60N

Total Travel: .008" (0.2mm)

Materials & Finishes

Actuator: Glass fiber reinforced polyamide (UL94V-0)

Case: Stainless steel

Base: Glass fiber reinforced polyamide (UL94V-0) **Movable Contacts:** Stainless steel with silver or gold plating

Stationary Contacts: Brass with silver or gold plating

Terminals: Brass with silver or gold plating

Environmental Data

Operating Temperature Range: -20°C through +70°C (-4°F through +158°F)

Humidity: 90 ~ 95% humidity for 240 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: 100G (981m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

PCB Processing

Soldering: Wave Soldering Recommended. See Profile A in Supplement section.

Manual Soldering: See Profile A in Supplement section.

Cleaning: These devices are not process sealed. Hand clean locally using alcohol based solution.

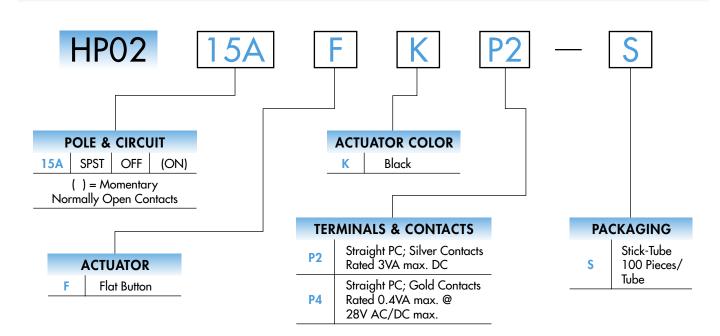
Standards & Certifications

Flammability Standards: UL94V-0 actuator and base

UL RecognitionThese switches are designed for use in a low-voltage, low-current circuit. **& CSA Certification:**When used as intended, the results do not produce hazardous energy.



TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

HP0215AFKP2-S

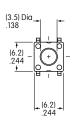


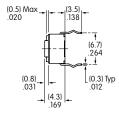
	POLE & CIRCUIT										
			Actuator Position () = Momentary		Throw & Schematic						
		Normal	Down								
Pole	Model	-		- SPST	13	Note: Terminal numbers are					
SP	HP0215A	OFF	(ON)		24	not actually on the switch.					

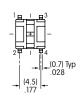
TYPICAL SWITCH DIMENSIONS

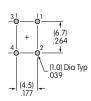
Straight PC











HP0215AFKP2



PACKAGING



Stick-Tube

Switches must be ordered in 100-piece increments.



Stick-Tube Dimensions

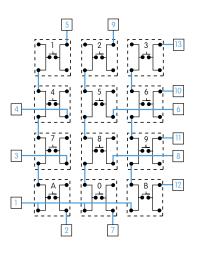
Each stick-tube contains 100 switches.





KEYBOARD MATRIX

Common Bus Matrix

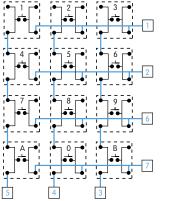


	PC Terminations													
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s)	3	0												0
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=	6	0									0			
S	7	0		0										
Keys (Switches)	8	0							0					
	9	0										0		
	0	0						0						
	Α	0	0											
	В	0											0	
	O = ON													

Blue = PCB Trace, Black = Switch Circuit

These single pole, single throw switches can be used in a keyboard matrix and, using strapped terminals, achieve a common bus electrical configuration on a single-sided PC board.

X-Y Matrix



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Switches	7					0	0	Г
	8				0		0	Г
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S V	0				0			(
	Α					0		\overline{C}
	В			0				C
		($\overline{\mathbb{C}}$	=	С	N		•

Blue = PCB Trace, Black = Switch Circuit

These single pole, single throw switches can be arranged on a single-sided PC board matrix with strapped terminals to achieve an X-Y type electrical interconnection.