

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 and tape-reel packaging allow rapid automated placement of devices.

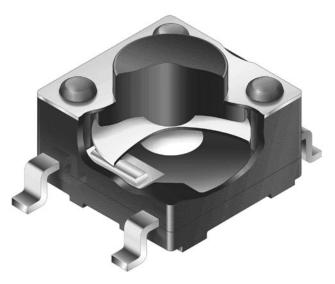
Gold plated contacts available for very low voltage/current applications offer advantages of little or no oxidization or sulfurization and stable contact resistance.

Gull-winged terminals ensure mechanical stability during soldering and simplified solder joint inspection.

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

Tape-reel packaging meets EIA-481-2 Standard.

Coplanarity: all considered surfaces must lie between two parallel planes that are a maximum distance apart of .0039" (0.10mm). (Additional coplanarity details in Terms and Acronyms in the Supplement section.)









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
Electrical Life:	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/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Processing

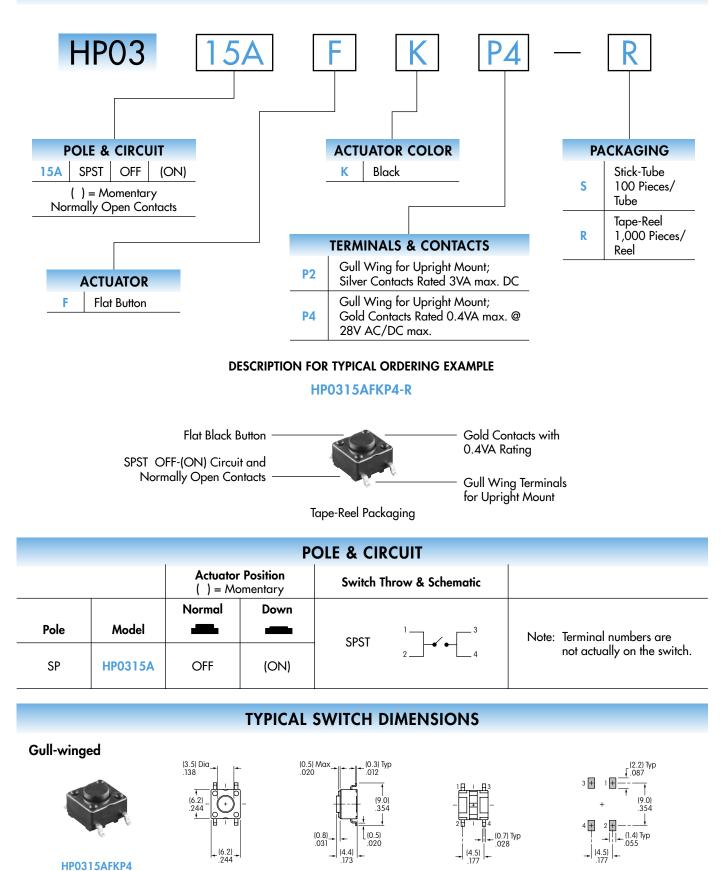
Soldering:	Reflow Soldering Recommended. See Profile A in Supplement section.
	Manual Soldering: See Profile A in Supplement section.
Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards:UL94V-0 actuator and baseUL 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





PACKAGING

S Stick-Tube

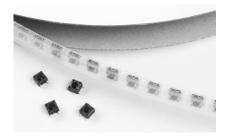
Switches must be ordered in 100piece increments when stick-tube packaging is selected.





Switches must be ordered in 1,000-piece increments when tape-reel packaging is selected.

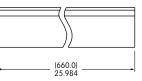
Packaging meets EIA-481-2 Standard.



Stick-Tube Dimensions

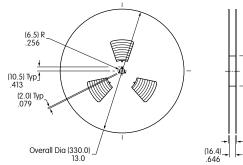
Each stick-tube contains 100 switches

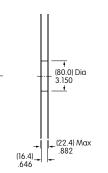


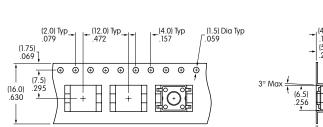


Tape-Reel Dimensions

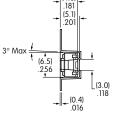
Each tape-reel of 1,100 pockets contains 1,000 switches. Minimum Leader Length: 15.748" (400mm). Minimum Trailer Length: 6.299" (160mm).







Direction of Feed



KEYBOARD MATRIX

2 3 ches 4 5 ≥ 8 Kevs 9 0 AO В 2

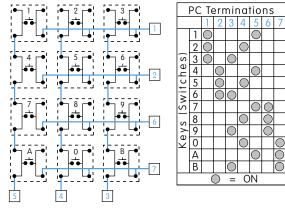
PC Terminations = ON \bigcirc

Blue = PCB Trace, Black = Switch Circuit

Common Bus Matrix

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



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.