# General Specifications 

## Electrical Capacity (Resistive Load)

$\begin{aligned} & \text { Power Level (silver): } \text { 3VA maximum @ 28V DC maximum } \\ & \text { (Applicable Range } 10 \mathrm{~mA} \sim 125 \mathrm{~mA} @ 0.1 \mathrm{~V} \sim 28 \mathrm{~V} \text { ) } \\ & \text { Logic Level (gold): } 0.4 \mathrm{VA} \text { maximum @ } 28 \mathrm{~V} \text { AC/DC maximum }\end{aligned}$
(Applicable Range $0.1 \mathrm{~mA} \sim 0.1 \mathrm{~A} @ 20 \mathrm{mV} \sim 28 \mathrm{~V}$ )
Note: See Supplement for further explanation of operating range.

Other Ratings

| Contact Resistance: | 100 milliohms maximum |
| ---: | :--- |
| Insulation Resistance: | 100 megohms minimum @ 100 V DC |
| Dielectric Strength: | 250 V AC minimum for 1 minute minimum between contacts \& between contacts \& case |
| Mechanical Life: | 500,000 operations minimum |
| Electrical Life: | 500,000 operations minimum |
| inal Operating Force: | 1.60 N |
| Total Travel: | $.008^{\prime \prime}(0.2 \mathrm{~mm})$ |

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

These switches are designed for use in a low-voltage, low-current circuit. When used as intended, the results do not produce hazardous energy.
Environmental Data

## Processing

$\begin{array}{ll}\text { Soldering: } & \text { Reflow Soldering Recommended. See Profile A in Supplement section. } \\ \text { Manual Soldering: See Profile A in Supplement section. } \\ \text { Cleaning: } & \text { These devices are not process sealed. Hand clean locally using alcohol based solution. }\end{array}$

Flammability Standards:
UL94V-0 actuator and base
Operating Temperature Range:
Humidity:
Vibration: $\quad 10 \sim 55 \mathrm{~Hz}$ with peak-to-peak amplitude of 1.5 mm traversing the frequency range \& returning in 1 minute; 3 right angled directions for 2 hours
Shock: $\quad 100 \mathrm{G}\left(981 \mathrm{~m} / \mathrm{s}^{2}\right)$ acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

## Standards \& Certifications

## Distinctive Characteristics

$.244^{\prime \prime}(6.2 \mathrm{~mm})$ square body allows compact mounting.

Heat resistant resin body meets lead-free solder processing requirements and UL flammability rating of $94 \mathrm{~V}-0$.

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-D Standard.
Coplanarity: all considered surfaces must lie between two parallel planes that are a maximum distance apart of $.0039^{\prime \prime}(0.10 \mathrm{~mm})$. (Additional coplanarity details in Terms and Acronyms in the Supplement section.)



## TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE
HP0315AFKP4-R


## POLE \& CIRCUIT

|  |  | Actuator Position ( ) = Momentary |  | Switch Throw \& Schematic |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pole | Model | Normal $\square$ | Down $\square$ | -3 | Note: Terminal numbers are |
| SP | HP0315A | OFF | (ON) |  |  |

## Gull-winged




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## PACKAGING



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


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

Packaging meets EIA-481-D Standard.


## Stick-Tube Dimensions



## Tape-Reel Dimensions

Each tape-reel of 1,100 pockets contains 1,000 switches.
Minimum Leader Length: $15.748^{\prime \prime}$ ( 400 mm ). Minimum Trailer Length: $6.299^{\prime \prime}$ ( 160 mm ).


## 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.



Red $=$ PCB Trace Black $=$ Switch Circuit

## X-Y Matrix

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.


## X-ON Electronics

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