### Series HP03

# General Specifications

#### **Electrical Capacity (Resistive Load)**

3VA maximum @ 28V DC maximum
(Applicable Range 10mA ~ 125mA @ 0.1V ~ 28V)
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**

	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**

Glass fiber reinforced polyamide (UL94V-0)
Stainless steel
Glass fiber reinforced polyamide (UL94V-0)
Stainless steel with silver or gold plating
Brass with silver or gold plating
Brass with silver or gold plating

### **Environmental Data**

2	Operating Temperature Range: Humidity:	–20°C through +70°C (–4°F through +158°F) 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 <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
	Processing	
2	Soldering:	Reflow Soldering Recommended. See Profile A in Supplement section. Manual Soldering: See Profile A in Supplement section.
<u></u>	Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.

### **Standards & Certifications**

Flammability Standards: UL94V-0 actuator and base These switches are designed for use in a low-voltage, low-current circuit. When used as intended, the results do not produce hazardous energy.

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Touch

J16

### Series HP03

Toggles

Rockers

Programmable Illuminated PB Pushbuttons

Keylocks

Rotaries

Slides

**I**actiles

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Touch

## 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.

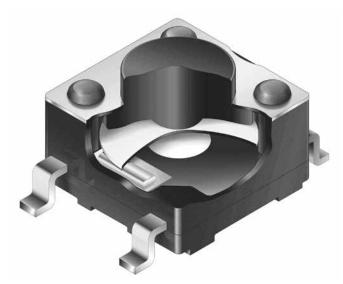
Gold plated contacts available for very low voltage/current applications offer advantages of little or no oxidization or sulfurization and stable contact resistance.

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-D 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.)

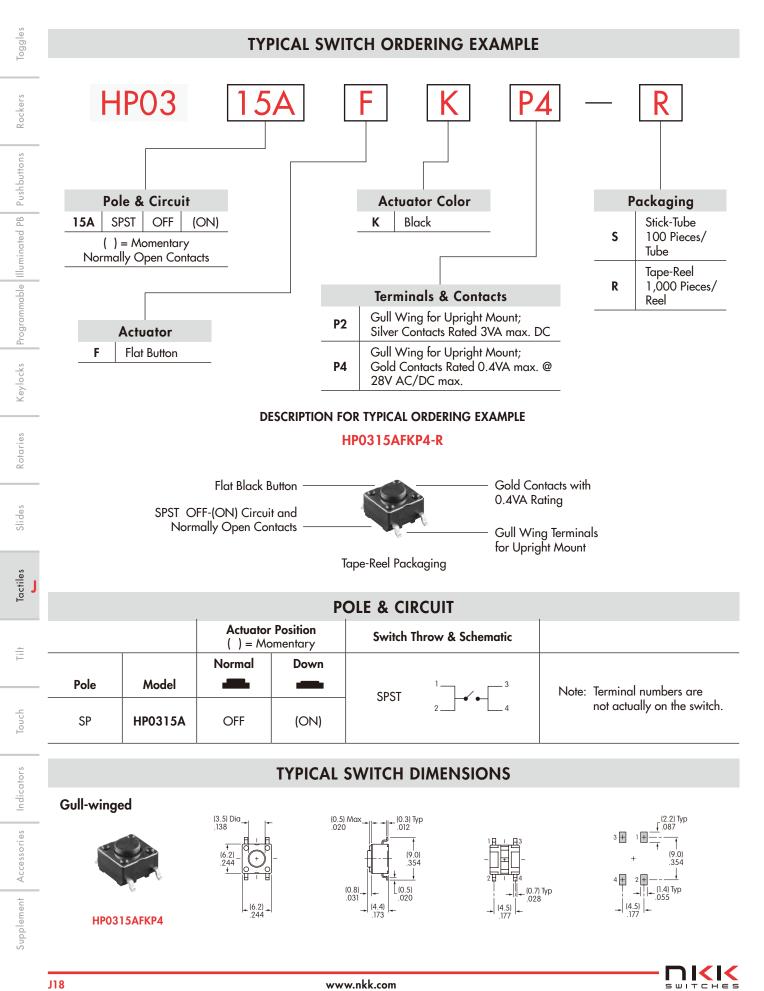


Actual Size



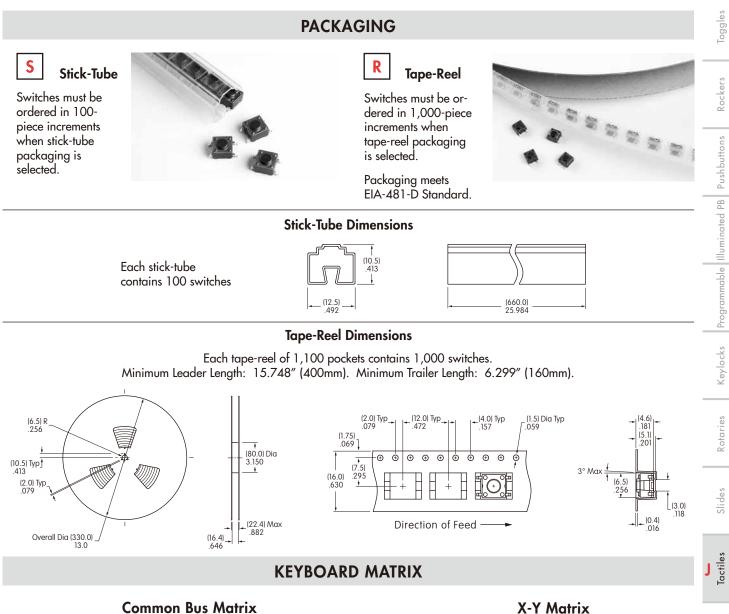
Supplement

### **Series HP03**



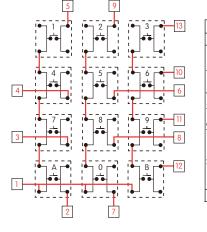
### **6mm SMT Tactiles**

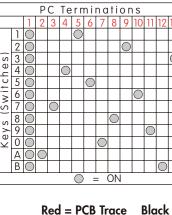
### Series HP03



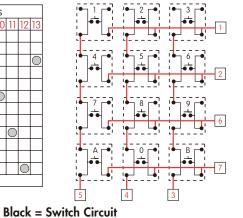
#### **Common Bus Matrix**

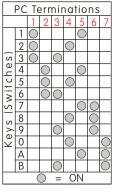
These single pole, single throw switches can be used in a keyboard matrix and, using strapped terminals, achieve a common bus electrical configuration on a single-sided PC board.





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.





Supplement

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Touch

Indicators

Accessories