## **Series HP03**

Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

# General Specifications

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

Power Level (silver):	3VA maximum @ 28V DC maximum	
	(Applicable Range 10mA ~ 125mA @ 0.1V ~ 28V)	
Logic Level (gold):	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**

<b>Contact Resistance:</b>	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

Tactiles	Environmental Data Operating Temperature Range: Humidity: Vibration: Shock:	-20°C through +70°C (-4°F through +158°F) 90 ~ 95% humidity for 240 hours @ 40°C (104°F) 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 100G (981m/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Touch	Processing Soldering:	Reflow Soldering Recommended. See Profile A in Supplement section. Manual Soldering: See Profile A in Supplement section.
Indicators	Cleaning: Standards & Certifications	These devices are not process sealed. Hand clean locally using alcohol based solution.
Accessories	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.
Supplement		

### **Standards & Certifications**

# 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.)







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Indicators



## Series HP03



## **6mm SMT Tactiles**

# Series HP03

