Rotaries

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General Specifications

Electrical Capacity (Resistive Load)

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

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

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

(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

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

Stationary Contacts: Terminals: Brass with silver or gold plating

Environmental Data

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

90 ~ 95% humidity for 240 hours @ 40°C (104°F) **Humidity:**

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)

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 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.



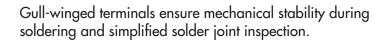
Distinctive Characteristics

.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.

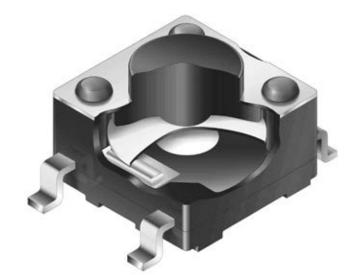
Gold plated contacts available for very low voltage/current applications offer advantages of little or no oxidization or sulfurization and stable contact resistance.



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

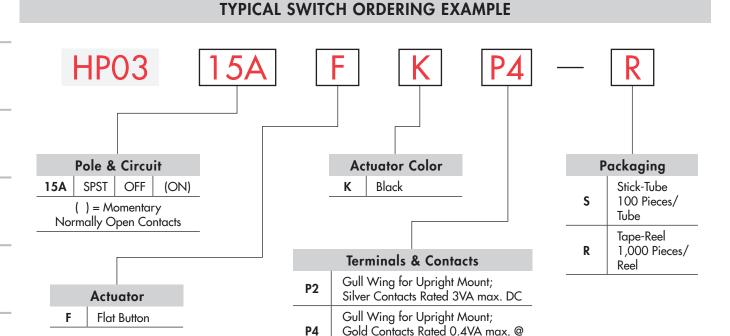




Slides

Touch

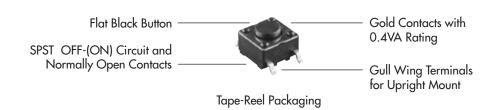
Indicators Supplement | Accessories



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

28V AC/DC max.

HP0315AFKP4-R



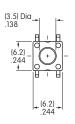
POLE & CIRCUIT												
			Actuator Position () = Momentary		hrow & Schematic							
		Normal	Down	- SPST								
Pole	Model	-			2 4	Note: Terminal numbers are						
SP	HP0315A	OFF	(ON)			not actually on the switch.						

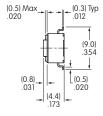
TYPICAL SWITCH DIMENSIONS

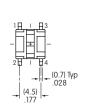
Gull-winged

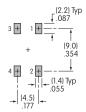


HP0315AFKP4











PACKAGING



Stick-Tube

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

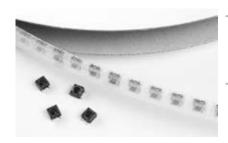




Tape-Reel

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

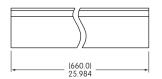
Packaging meets EIA-481-D Standard.



Stick-Tube Dimensions

Each stick-tube contains 100 switches

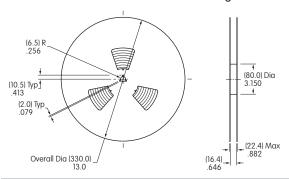


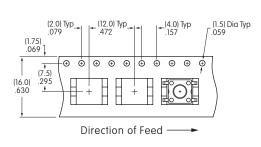


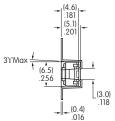
Tape-Reel Dimensions

Each tape-reel of 1,100 pockets contains 1,000 switches.

Minimum Leader Length: 15.748" (400mm). Minimum Trailer Length: 6.299" (160mm).



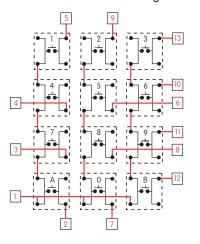


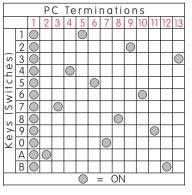


KEYBOARD MATRIX

Common Bus Matrix

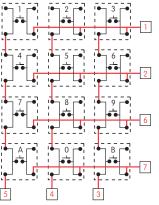
These single pole, single throw switches can be used in a keyboard matrix and, using strapped terminals, achieve a common bus electrical configuration on a single-sided PC board.





X-Y Matrix

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.



PC Terminations									
		1	2	3	4	5	6	7	
Keys (Switches)	1					0			
	2				0				
	3								
	4								
	5								
	6								
	7					\odot			
	8								
	9								
	0								
	Α								
	В								
O = ON									

Red = PCB Trace Black = Switch Circuit

X-ON Electronics

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KMR633NG LFG 5GTH9202242 6426-201-11343 MJ1226 MJTP1230BL MJTPSHW 1-1977223-0 1-1977120-4 ADTSA62NV

ADTSA62RV ADTSA63KV ADTSA644NV ADTSM24NVTR ADTSMW66NV ADTSMW67RV ATM533VTR B3F-3123 B3F-6055A

B3F-B32-01-KIT 1977177-8 1977266-1 2-1977223-4 2-1977223-7 ADTS644KV ADTSA61RV ADTSA62KV ADTSA63NV

ADTSA63RV ADTSA65NV ADTSM21NSVTR ADTSM25RVTR ADTSM32NVTR ADTSM61YVTR ADTSM63SVTR

ADTSM644KVTR ADTSMW64RV ADTSMW69NV FSMRA4JHA04 D38999/20JJ37SA TL1105B TL1105J ATM534VTR MJ1221

MJ1227 506E00201 MJTP1109A MJTPSHWA MJTPSJW69N 3FTL600RAS 3FTL640RAS