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Tactiles

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Supplement Accessories

General Specifications

Electrical Capacity (Resistive Load)

Low/Logic Level: 50mA @ 24V DC maximum

Other Ratings

Contact Resistance: 100 milliohms maximum

Insulation Resistance: 100 megohms minimum @ 250V DC

250V AC minimum between contacts & between contacts & case for 1 minute minimum **Dielectric Strength:**

Mechanical Life: 100,000 operations minimum **Electrical Life:** 100,000 operations minimum

Nominal Operating Force: 1.57N

> **Total Travel:** .010" (.250mm)

Materials & Finishes

Actuator: Glass fiber reinforced polyamide (UL94V-0)

Case: Stainless steel

Seal: Polytetrafluoroethylene Polyphthalamide (UL94V-0) Base: Beryllium copper with silver plating

Movable Contacts: Stationary Contacts: Brass with silver plating

Terminals: Brass with silver plating

Environmental Data

-25°C through +70°C (-13°F through +158°F) **Operating Temperature Range:**

90 ~ 95% humidity for 96 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: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Processing

Reflow Soldering Recommended. See Profile A in Supplement section. **Soldering:**

Manual Soldering: See Profile A in Supplement section.

Automated cleaning. See Cleaning Specifications in Supplement section. Cleaning:

Standards & Certifications

Flammability Standards: UL94V-0 actuator & base

> The CB3 Series tactiles have not been tested for UL recognition or CSA certification. These switches are designed for use in a low-voltage, low-current, logic-level circuit. When used as intended in a logic-level circuit, the results do not produce hazardous energy.



Rockers

Keylocks Programmable Illuminated PB Pushbuttons

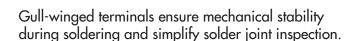
Distinctive Characteristics

Sealed construction prevents contact contamination and allows automated soldering and cleaning.

.244" (6.2mm) square body allows compact mounting.

Heat tolerant resin used for actuator and base meets UL flammability rating of 94V-0 and maintains switch reliability through vapor phase and infrared convection reflow soldering.

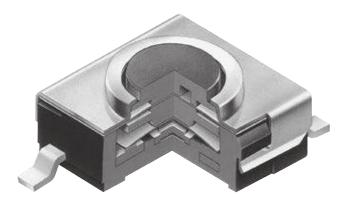
Dome contact gives crisp tactile feedback to positively indicate circuit transfer and assures high reliability and long life more than 100,000 operations.



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

Packaged in tape-reel or partitioned tray. 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 .0059" (0.15mm). (Additional coplanarity details in Terms and Acronyms in the Supplement section.)



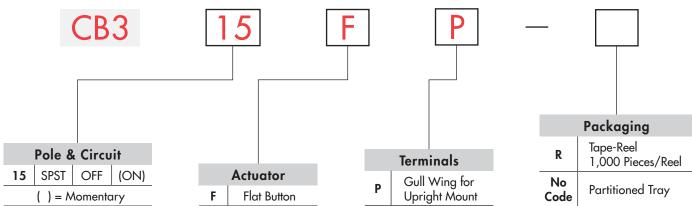
Actual Size





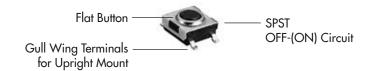
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TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

CB315FP

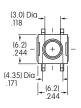


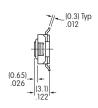
POLE & CIRCUIT										
		Actuator Position () = Momentary		Switch T	Throw & Schematic					
		Normal	Down							
Pole	Model			- SPST	1 3	Note: Terminal numbers are				
SP	CB315	OFF	(ON)		24	not actually on switch.				

TYPICAL SWITCH DIMENSIONS

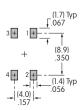
Single Pole • Single Throw











CB315FP



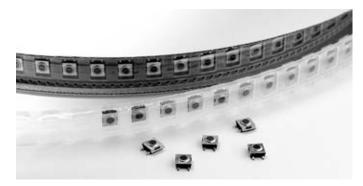
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PACKAGING



Tape-Reel (packaged to EIA-481-D standard)

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





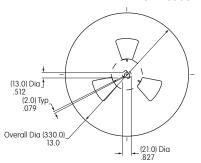
Partitioned Tray

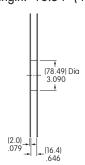
If less than 1,000 pieces are ordered, the switches are packaged in a partitioned tray. No code is required.

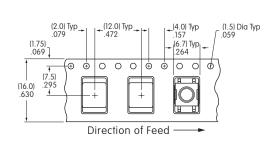


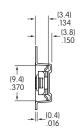
Tape-Reel Dimensions & Specifications

Each tape-reel of 1,050 pockets contains 1,000 switches Minimum Leader Length: 16.54" (420mm) Minimum Trailer Length: 7.09" (180mm)





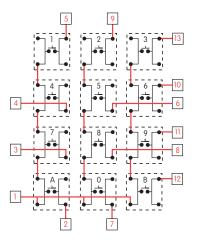




KEYBOARD MATRIX

Common Bus Matrix

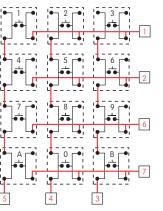
These single pole, single throw switches can be used in a keyboard matrix and, using strapped terminals, achieve a common bus electrical configuration on a single-sided PC board.



PC Terminations														
		1	2	3	4	5	6	7	8	9	10	11	12	13
	1													
	2													
S	3													
he	4													
Ç	5													
<u>-</u>	6	0												
(Switches	7													
Keys (8	0												
	9	0												
	0	0												
	Α	0												
	В	0											0	
O = ON														

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											
			2	3	4	5	6	7				
	1											
	2											
S	3											
he	4											
Switches	5											
>	6											
S	7					0						
· ·	8				0							
Keys	9			0								
X	0				0			0				
	Α					0		\bigcirc				
	В											
	O = ON											

Red = PCB Trace Black = Switch Circuit

