# General Specifications 

Electrical Capacity (Resistive Load)<br>Low/Logic Level: 50 mA @ 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
100,000 operations minimum
100,000 operations minimum
Nominal Operating Force: $\quad 1.57 \mathrm{~N}$
Total Travel: $\quad .010^{\prime \prime}(.250 \mathrm{~mm})$

## Materials \& Finishes

Actuator: Glass fiber reinforced polyamide (UL94V-0)
Case: Stainless steel
Seal: Polytetrafluoroethylene
Base: Polyphthalamide (UL94V-0)
Movable Contacts: Beryllium copper with silver plating
Stationary Contacts: Brass with silver plating
Terminals: Brass with silver plating

## Environmental Data

Operating Temperature Range:
Humidity: $\quad 90 \sim 95 \%$ humidity for 96 hours @ $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$
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: $50 \mathrm{G}\left(490 \mathrm{~m} / \mathrm{s}^{2}\right)$ acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

## Processing

$\begin{array}{ll}\text { Soldering: Reflow Soldering Recommended. See Profile A in Supplement section. } \\ & \text { Manual Soldering: See Profile A in Supplement section. } \\ \text { Cleaning: } & \text { Automated cleaning. See Cleaning Specifications in Supplement section. }\end{array}$

## 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.

## Distinctive Characteristics

Sealed construction prevents contact contamination and allows automated soldering and cleaning.
$.244^{\prime \prime}(6.2 \mathrm{~mm})$ square body allows compact mounting.

Heat tolerant resin used for actuator and base meets UL flammability rating of $94 \mathrm{~V}-0$ 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.

Gull-winged terminals ensure mechanical stability during soldering and simplify solder joint inspection.

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 $.0059^{\prime \prime}(0.15 \mathrm{~mm})$. (Additional coplanarity details in Terms and Acronyms in the Supplement section.)


DESCRIPTION FOR TYPICAL ORDERING EXAMPLE
CB315FP


## POLE \& CIRCUIT

|  |  | Actuator Position <br> ( ) = Momentary |  | Switch Throw \& Schematic |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pole | Model | Normal | Down | SPST | Note: Terminal numbers are not actually on switch. |
| SP | CB315 | OFF | (ON) |  |  |

## TYPICAL SWITCH DIMENSIONS

## Single Pole • Single Throw



CB315FP

## PACKAGING



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.


## 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.


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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for Tactile Switches category:
Click to view products by NKK Switches manufacturer:
Other Similar products are found below :
5GTH92001 5GTH9202242 1-1977120-4 ADTSA62RV ADTSA63KV ADTSA644NV ADTSMW66NV ADTSMW67RV B3F-3123 B3F-
6055A B3F-B32-01-KIT 1977177-8 1977266-1 ADTS644KV ADTSA61RV ADTSA62KV ADTSA63NV ADTSA63RV
ADTSM21NSVTR ADTSM32NVTR ADTSM63SVTR ADTSM644KVTR ADTSMW64RV ADTSMW69NV FSMRA4JHA04
GS4.70F300QP 3ESH9R 506E00201 MJTP1164TR 3FTL600RAS 3FTL640RAS Y96K132V0FPLFS 101-TS5022T1601-EV 5GSH92001 KSJ0A231 80SH LFG EVQ-P1D05K MJTP1162TR ADTSM63KV 2-1977120-7 TSJW-5.2-260-TR KMT011MNGJLHS B3WN6002S ADTSA648RV 70-201.0 ADTSM62KSVTR ATA600VTR ADTSG66RV ADTS61NV ADTSM62KVTR ADTSM25KSVB

