# General Specifications

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

Low/Logic Level:

50mA @ 24V DC maximum for Standard Operating Force models 125mA @ 24V DC maximum for High Operating Force models

#### **Other Ratings**

<b>J</b>	Standard Operating Force	High Operating Force
Contact Resistance:	50 milliohms maximum	50 milliohms maximum
Insulation Resistance:	500 megohms minimum @ 250V DC 500 me	egohms minimum @ 250V DC
Dielectric Strength:	250V AC minimum for 1 minute minimum	250V AC minimum for 1 minute minimum
Mechanical Life:	5,000,000 operations minimum	1,000,000 operations minimum
Electrical Life:	5,000,000 operations minimum	1,000,000 operations minimum
Nominal Operating Force:	1.76N for JB15L	2.65N for JB15HL & JB15HB
Total Travel:	.010″ (.254mm)	.012″ (.300mm)

#### **Materials & Finishes**

Polyacetal for Short; Glass fiber reinforced PBT for Extended
Glass fiber reinforced polyamide (UL94V-0)
Nitrile butadiene rubber
Glass fiber reinforced PBT (UL94V-0)
Stainless steel
Brass with silver plating
Brass with silver plating

#### **Environmental Data**

Operating Temperature Range:	–25°C through +70°C (–13°F through +158°F)
Humidity: Vibration: Shock:	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 50G (490m/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
PCB Processing Soldering: Cleaning:	Wave Soldering recommended. See Profile A in Supplement section. Manual Soldering: See Profile A in Supplement section. Automated cleaning. See Cleaning specifications in Supplement section.
Standards & Certifications Flammability Standards:	UL94V-0 rated case & base The JB 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.
	Operating Temperature Range: Humidity: Vibration: Shock: PCB Processing Soldering: Cleaning: Standards & Certifications



Rotaries

Slides

Tactiles

ŧ

Touch

Supplement Accessories Indicators

Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

# Distinctive Characteristics

Choice of dimensions from PCB to top of cap adds to design flexibility.

Bright, full-face illumination with red, green, or yellow LEDs for attractive, functional panel layouts.

Higher operating force type provides more pronounced operating feel.

Dome contact gives crisp tactile feedback to positively indicate circuit transfer and assures high reliability and long life of up to 5,000,000 operations.

Rubber seal construction prevents contact contamination and allows automated soldering and cleaning.

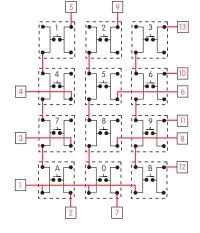
Slanted terminals provide a spring type action which ensures secure mounting and prevents dislodging during wave soldering.

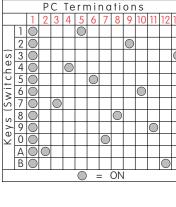
Molded-in terminals are part of the sealed construction which allows automated soldering and cleaning.

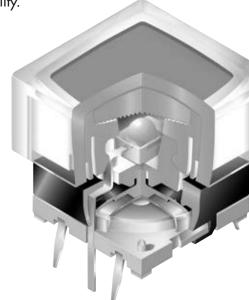
Terminal spacing conforms to standard .100" (2.54mm) PCB grid.

#### **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.







Actual Size



PC Terminations

2 3

Keys ( 0 6 8

A B

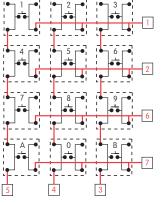
Switches

Rotaries

Slides

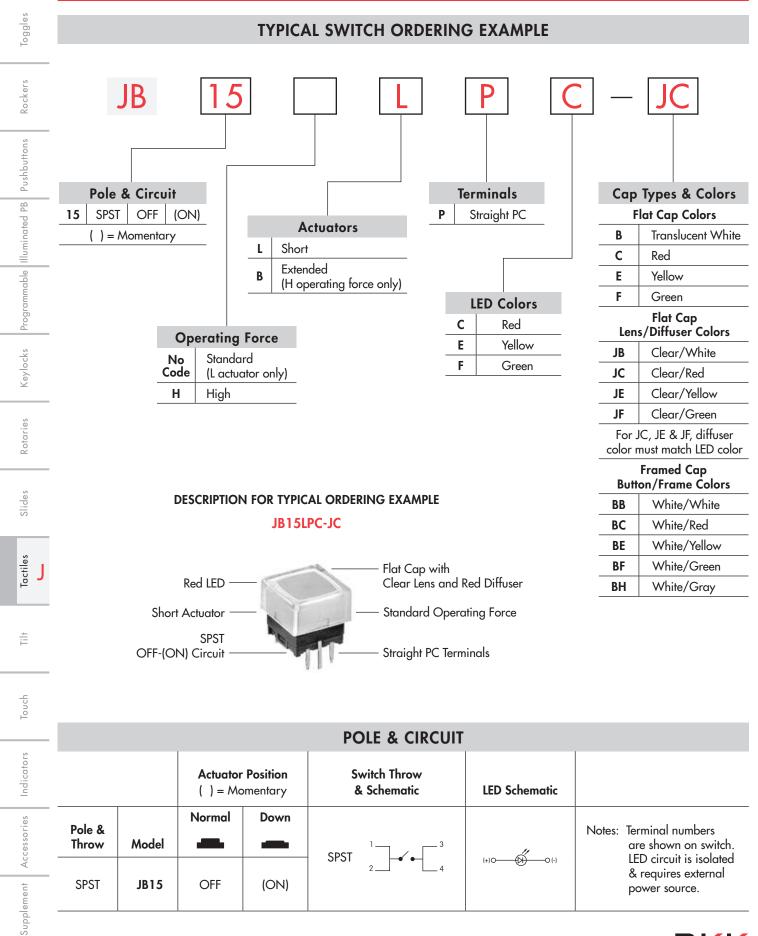
### X-Y Matrix

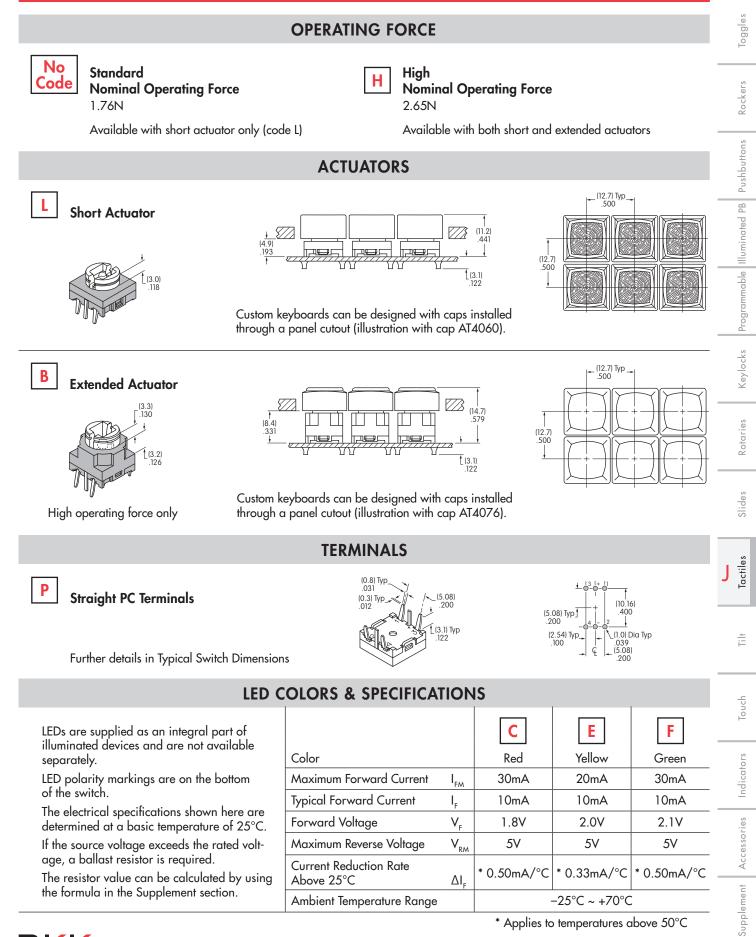
These single pole, single throw switches can be arranged on a single-sided PC board matrix with strapped terminals to achieve an X-Y type electrical interconnection.



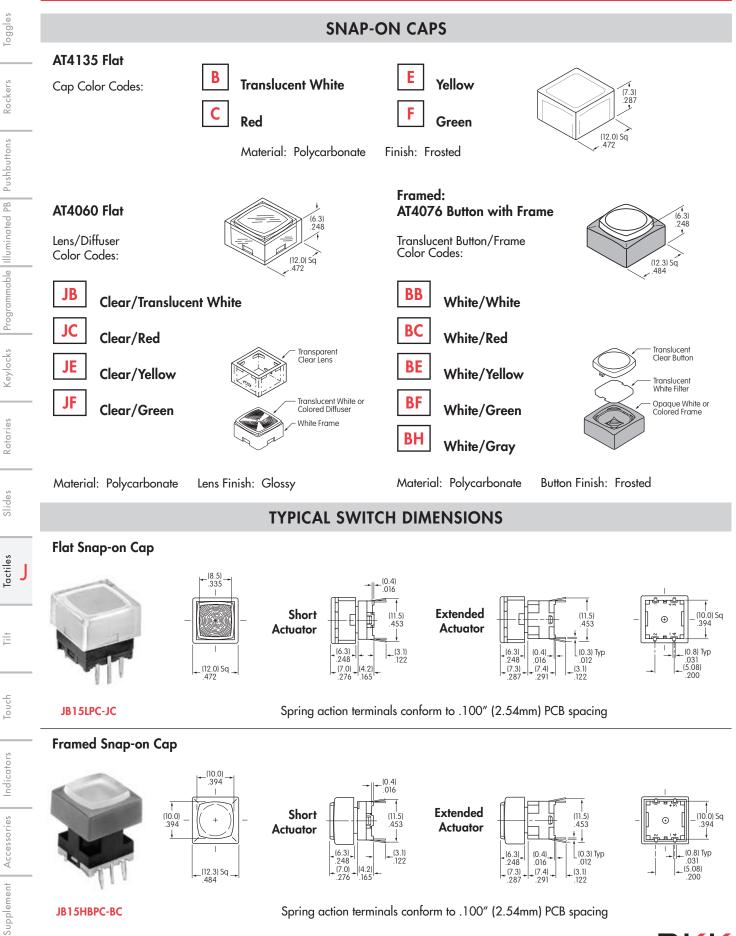




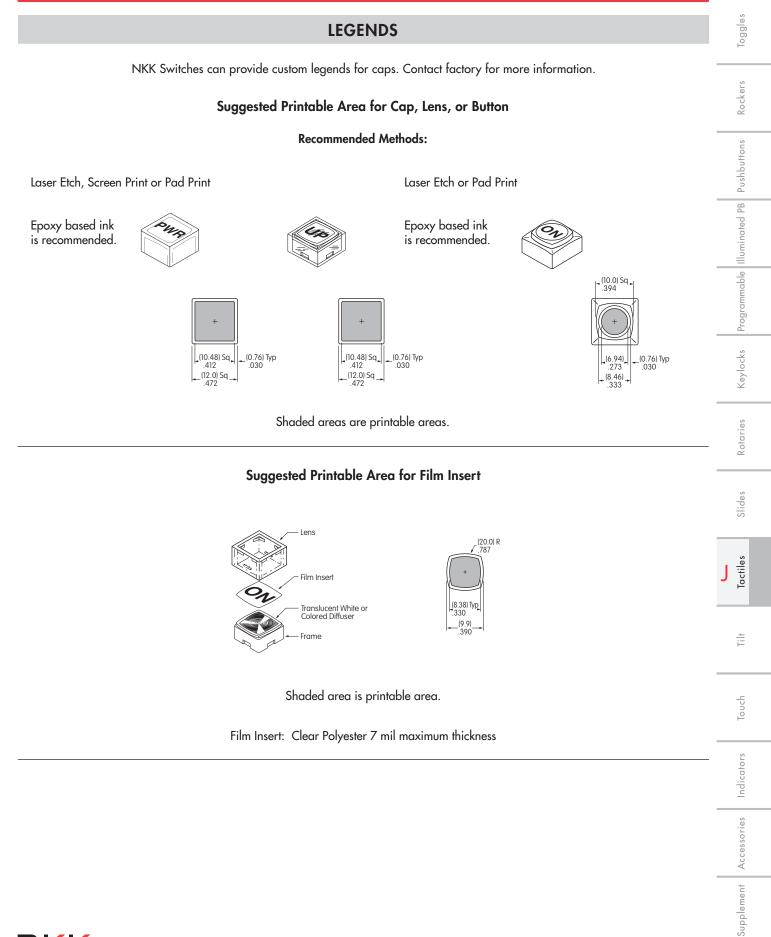




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