General Specifications **Electrical Capacity (Resistive Load)** Low/Logic Level: 50mA @ 24V DC

Other Ratings

Contact Resistance: 50 milliohms maximum

Insulation Resistance: 500 megohms minimum @ 250V DC 250V AC minimum for 1 minute minimum **Dielectric Strength:**

Mechanical Life: 1,000,000 operations minimum **Electrical Life:** 1,000,000 operations minimum

Nominal Operating Force:

.030" (0.75mm) **Total Travel:**

Materials & Finishes

Polycarbonate **Actuator:**

> Case: Glass fiber reinforced polyamide

Base: Glass fiber reinforced polybutylene terephthalate (PBT)

Movable Contact: Stainless steel

Stationary Contacts: Brass with silver plating **Switch Terminals:** Brass with silver plating **Lamp Terminals:** Brass with tin plating

Environmental Data

Operating Temperature Range: -25°C through +50°C (-13°F through +122°F)

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

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

50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) Shock:

PCB Processing

Soldering: Wave Soldering: 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

The JL Series tactiles have not been tested for UL recognition or CSA certification. 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

Bright, full face illumination with choice of red, green, or amber LEDs.

Multiple LED arrays and interior reflectors enhance illumination of the large, .75" (19mm) square actuator surface.

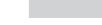
Distinctive design allows full face illumination in extra low profile of 0.31" (7.85mm) from PCB to top of switch.

Dome contact gives crisp tactile and audible feedback with short stroke and assures high reliability and long life of 1,000,000 operations.

Crimped terminals provide a spring type action to ensure secure mounting and prevent dislodging during the soldering process.

Streamlined housing dimensions provide for compact, side-by-side mounting on a standard grid.

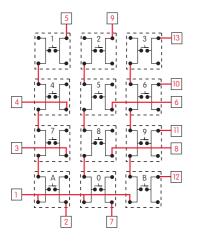
Terminal spacing conforms to standard .100" (2.54mm) PCB grid.

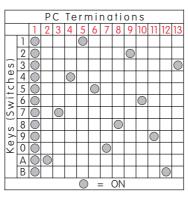


Actual Size

Common Bus Matrix

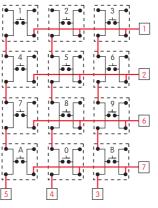
These single pole, single throw switches can be used in a keyboard matrix and, using strapped terminals, achieve a common bus electrical configuration on a single-sided PC board.





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.



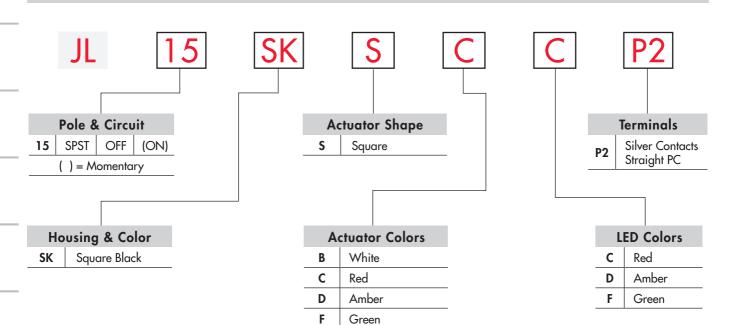
PC Terminations									
		1	2	3	4	5	6	7	
Keys (Switches)	1					\bigcirc			
	2				0				
	3								
	4								
	5				0				
	6			0					
	7					\bigcirc			
	8								
	9								
	0								
	Α					\bigcirc			
	В							\bigcirc	
O = ON									

Red = PCB Trace Black = Switch Circuit



Touch

Supplement | Acces



TYPICAL SWITCH ORDERING EXAMPLE

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

JL15SKSCCP2



POLE & CIRCUIT										
		Actuator Position () = Momentary		Switch Throw & Schematic	LED Schematic					
Pole	Model	Normal	Down	SPST 10	(+)O——————O (-)	Note: Terminal markings				
SP	JL15	OFF	(ON)	1 1 1a		"+" are shown on the switch.				

HOUSING & COLOR

ACTUATOR SHAPE & COLORS



Square Black Housing



Square Actuator

Actuator Colors Available:







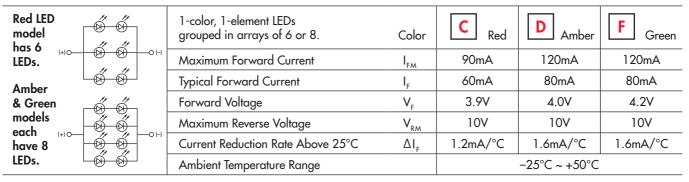






LED COLORS & SPECIFICATIONS

LEDs are an integral part of the switch. The electrical specifications shown are determined at a basic temperature of 25°C. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula in the Supplement.



TERMINALS

P2

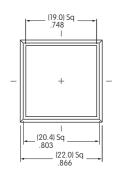
Silver Contacts Straight PC

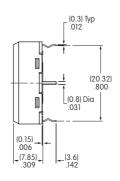
Additional details in Typical Switch Dimensions

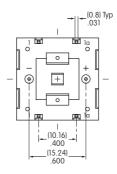


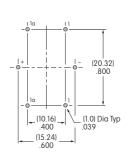
TYPICAL SWITCH DIMENSIONS

Square Actuator







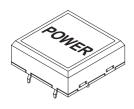


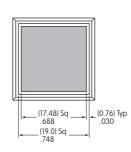


JL15SKSCCP2

LEGENDS

NKK Switches can provide custom legends for caps. Contact factory for more information.





Shaded area is printable area.

Recommended Print Methods:

Screen Print or Pad Print.

Epoxy based ink is recommended.

Additional Method

Engraving is not recommended as an additional method for legends.

Contact factory if engraving is required; it must be done before the actuator is assembled.