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
Dielectric Strength:	250V AC minimum for 1 minute minimum
Mechanical Life:	500,000 operations minimum
Electrical Life:	500,000 operations minimum
Nominal Operating Force:	3.0N for flush actuator
	2.0N for sculptured actuator
Total Travel:	Flush Actuators .016" (0.4mm); Sculptured Actuator: .031" (0.8mm)

Materials & Finishes

Actuator:	Polyamide for spot illuminated; polycarbonate for full face
Case:	Glass fiber reinforced polyamide
Seal:	Nitrile butadiene rubber
Base:	Glass fiber reinforced polyester
Movable Contact:	Phosphor bronze with silver plating
Stationary Contacts:	Brass with silver plating
Terminals:	Brass with silver plating

Slides **Environmental Data Operating Temperature Range:** -25°C through +70°C (-13°F through +158°F) 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 J 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) Shock: **PCB** Processing ÷ Soldering: 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. **Cleaning:** Switches should not be operated or have any pressure on the actuators during cleaning. Touch

of the 2-layered actuator, which may compromise the aesthetics.

Standards & Certifications

The JF 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.

Full face illuminated models suitable only for bottom board spray wash to avoid contamination

Distinctive Characteristics

Extremely low profile of .224" (5.7mm) from PCB to top of switch.

Red, green, or yellow LED with spot or full face illumination.

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

Minimal operating force and short stroke permit light touch operation.

Dome contact gives crisp tactile and audible feedback to positively indicate circuit transfer and assures high reliability and long life.

Space saving body dimensions provide for compact, side-by-side mounting on a standard grid.

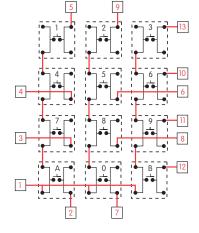
Crimped terminals ensure secure mounting and prevent dislodging during wave soldering.

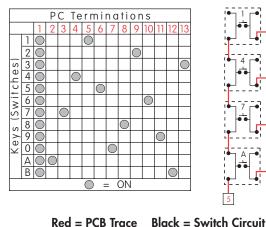
Terminal spacing conforms to standard .100" (2.54mm) PCB grid.

Matching indicator available and shown at the end of Section M.

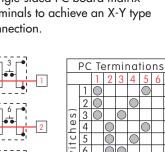
Common Bus Matrix

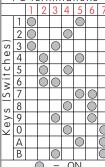
These single pole, single throw switches can be used in a keyboard matrix and, using strapped terminals, achieve a common bus electrical configuration on a single-sided PC board.





electrical interconnection.





Actual Size







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

> Indicators Supplement Accessories



Keylocks Programmable Illuminated PB Pushbuttons

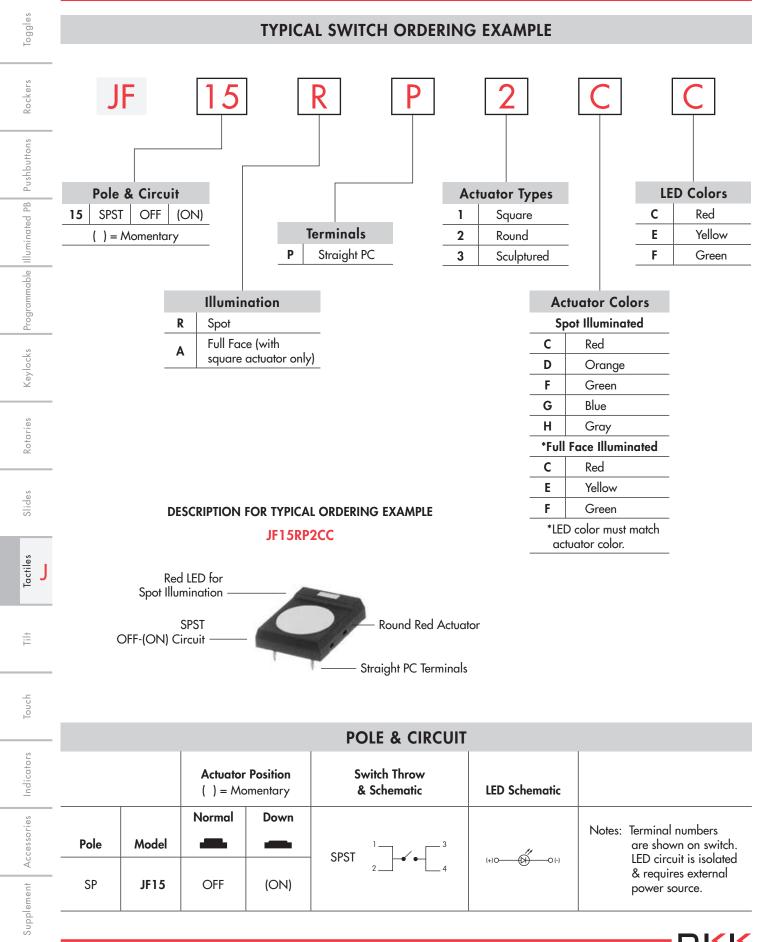
Rotaries

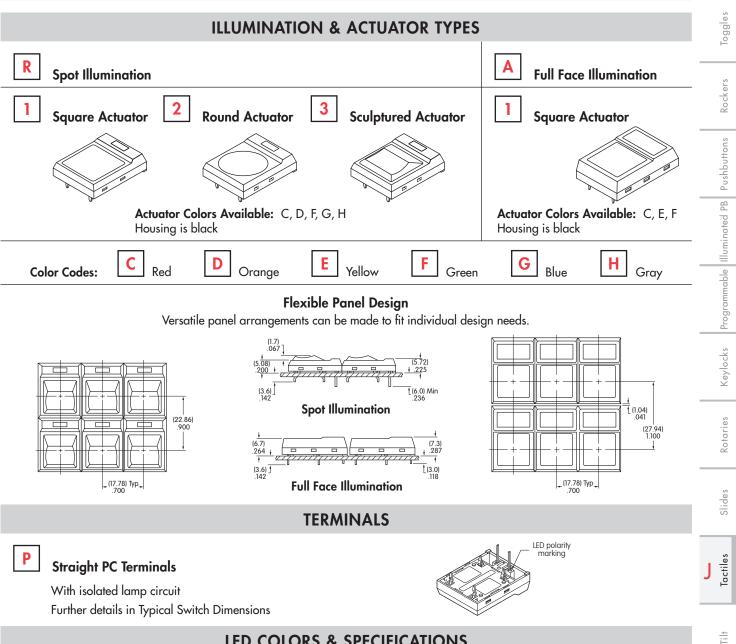
Slides

Tactiles

÷

Touch





LED COLORS & SPECIFICATIONS

LEDs are supplied as 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 section.

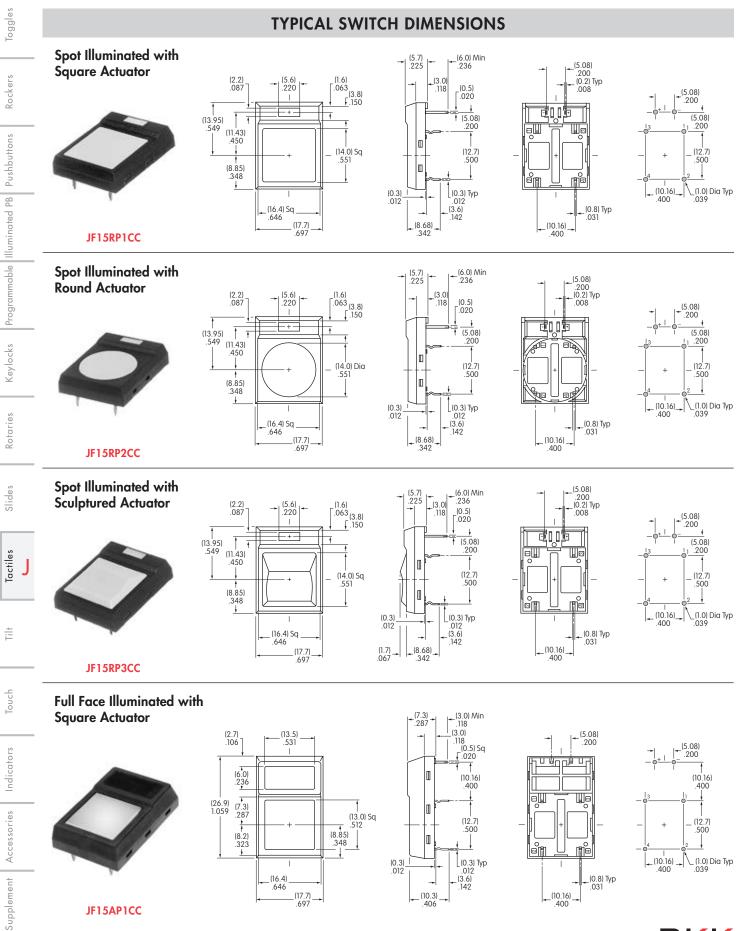
		Spot Illumination			Full Face Illumination			
Color		Red C	Yellow E	Green F	Red C	Yellow E	Green F	
Maximum Forward Current	I _{FM}	40mA	40mA	40mA	30mA	30mA	30mA	
Typical Forward Current	I _F	30mA	30mA	30mA	20mA	20mA	20mA	
Forward Voltage	V _F	1.7V	2.2V	2.2V	1.77V	2.1V	2.3V	
Maximum Reverse Voltage	V_{RM}	4V	4V	4V	4V	4V	4V	
Current Reduction Rate Above 25°C	$\Delta I_{\rm F}$	0.67mA/°C	0.67mA/°C	0.67mA/°C	0.4mA/°C	0.4mA/°C	0.4mA/°C	
Ambient Temperature Range		−25° ~ +70°C			−25° ~ +70°C			

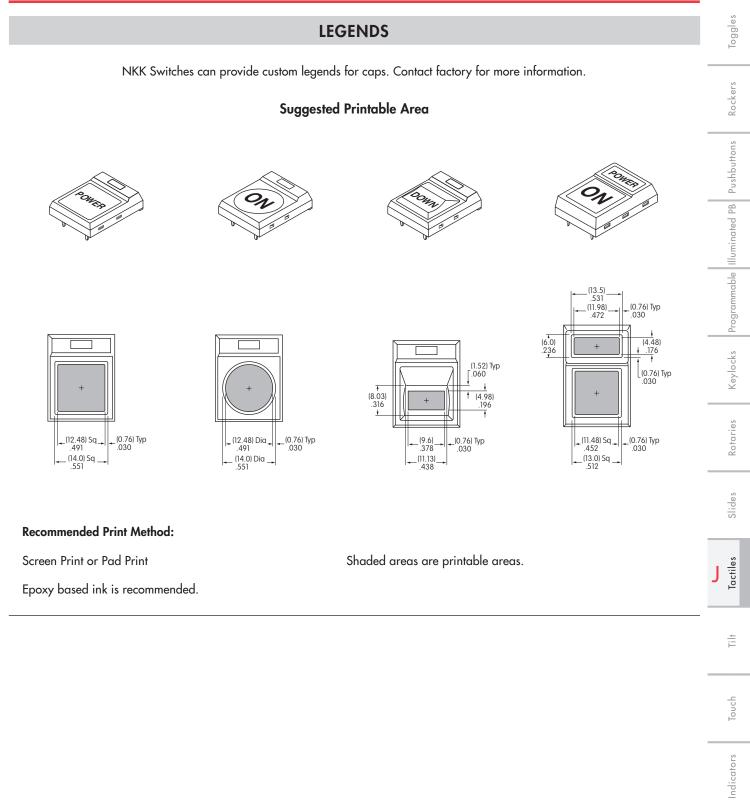


Touch

Indicators

Supplement Accessories





Supplement Accessories

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