

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:	1.96N for sculptured actuator 2.0N for piano actuator 3.0N for square & round flush actuators
Total Travel:	Flush Actuators .016" (0.4mm) Sculptured & Piano Actuators .031" (0.8mm)

Materials & Finishes

Actuator:	Polyamide
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

Environmental Data

Operating Temperature Range:	-25°C through +85°C (-13°F through +185°F)
Humidity:	90 ~ 95% humidity for 96 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
Shock:	50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

PCB Processing

Soldering:	Wave Soldering Recommended. See Profile A in Supplement section. Manual Soldering: See Profile A in Supplement section.
Cleaning:	Automated cleaning. See Cleaning specifications in Supplement section.

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.

Distinctive Characteristics

Extremely low profile of 5mm from PCB to top of switch.

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

Minimal operating force and short stroke permit light touch operation.

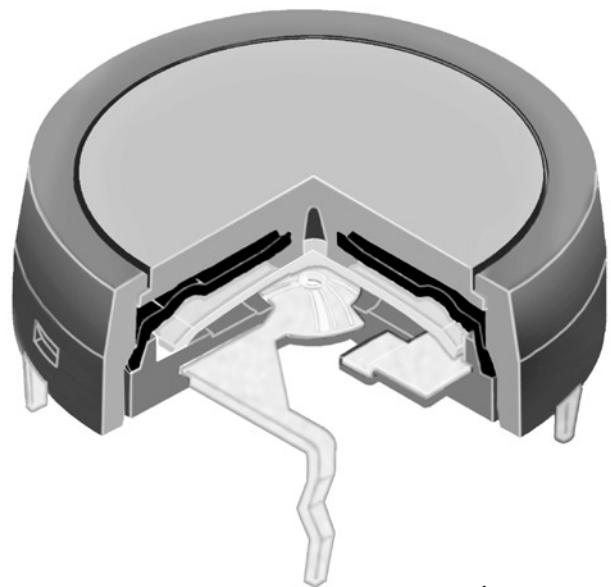
Dome contact gives crisp tactile and audible feedback to positively indicate circuit transfer and assures high reliability and long life.

Wide choice of body shapes and colors.

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

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

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

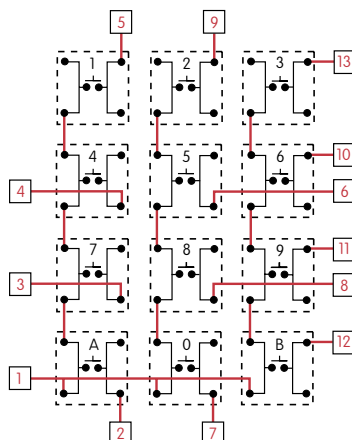


Actual Size



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.

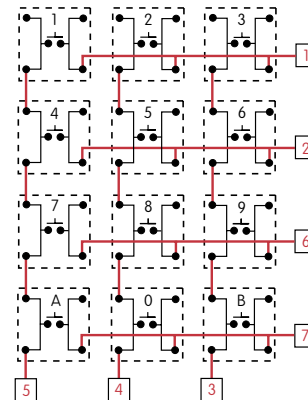


PC Terminations													
	1	2	3	4	5	6	7	8	9	10	11	12	13
Keys (Switches)													
1	●												
2		●											
3			●										
4				●									
5					●								
6						●							
7							●						
8								●					
9									●				
10										●			
A											●		
B												●	

● = 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							
	1	2	3	4	5	6	7
Keys (Switches)							
1	●						
2		●					
3			●				
4				●			
5					●		
6						●	
7							●
8							
9							
10							
A							
B							

● = ON

Red = PCB Trace Black = Switch Circuit

TYPICAL SWITCH ORDERING EXAMPLE

JF

15

S

P

2

C

Pole & Circuit

15	SPST	OFF	(ON)
() = Momentary			

Terminals

P	Straight PC
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Actuator Colors

C	Red
D	Orange
F	Green
G	Blue
H	Gray

Housing Shapes

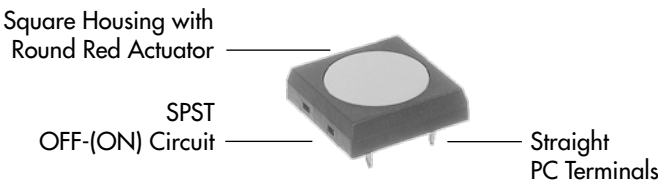
C	Round (with round actuator only)
S	Square

Actuator Types

1	Square
2	Round
3	Sculptured
4	Piano

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

JF15SP2C



POLE & CIRCUIT

		Actuator Position () = Momentary		Switch Throw & Schematic	Note: Terminal numbers are shown on the switch.
Pole	Model	Normal 	Down 	SPST 	
SP	JF15	OFF	(ON)		

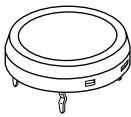
HOUSING SHAPES & ACTUATOR TYPES

C

Round Housing

2

Round Actuator

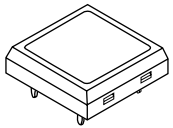


S

Square Housing

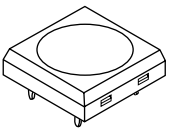
1

Square Actuator



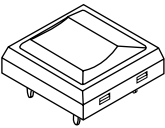
2

Round Actuator



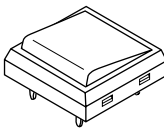
3

Sculptured Actuator



4

Piano Actuator



Actuator Colors Available:

C

Red

D

Orange

F

Green

G

Blue

H

Gray

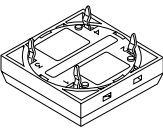
Housing is Black

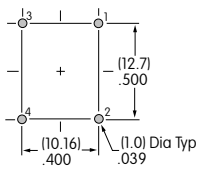
TERMINALS & PANEL DESIGN

P

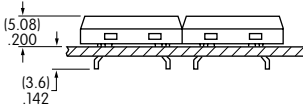
Straight PC

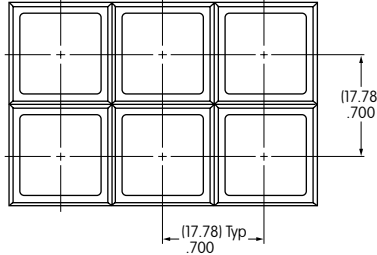
Additional details in Typical Switch Dimensions



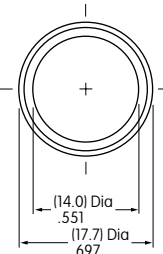


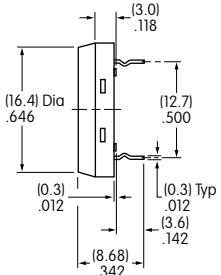
Versatile panel arrangements can be made to fit individual design needs.

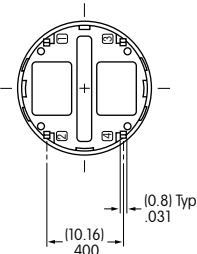




TYPICAL SWITCH DIMENSIONS







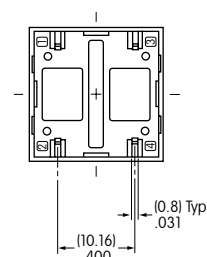
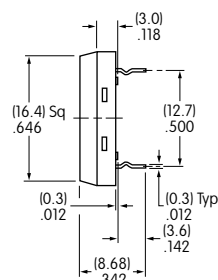
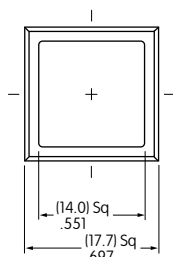
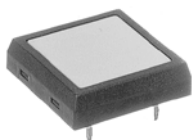
Round Actuator



JF15CP2C

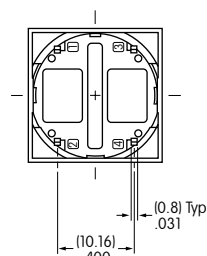
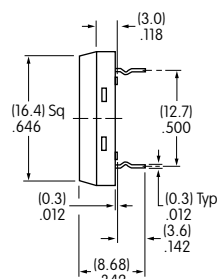
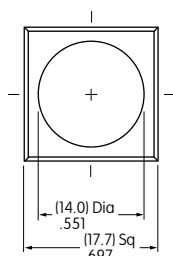
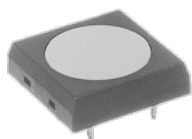
TYPICAL SWITCH DIMENSIONS

Square Actuator



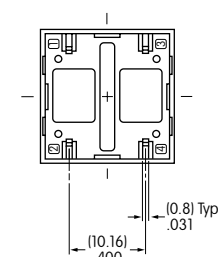
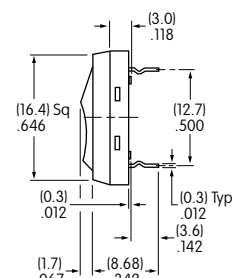
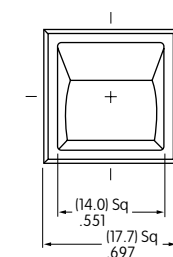
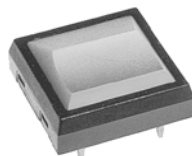
JF15SP1C

Round Actuator



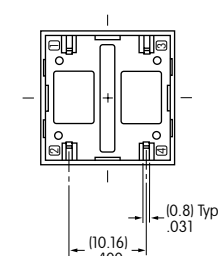
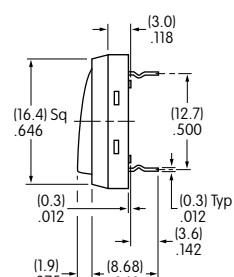
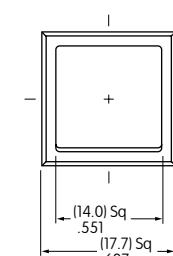
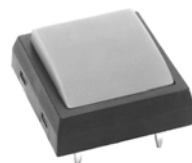
JF15SP2C

Sculptured Actuator



JF15SP3C

Piano Actuator

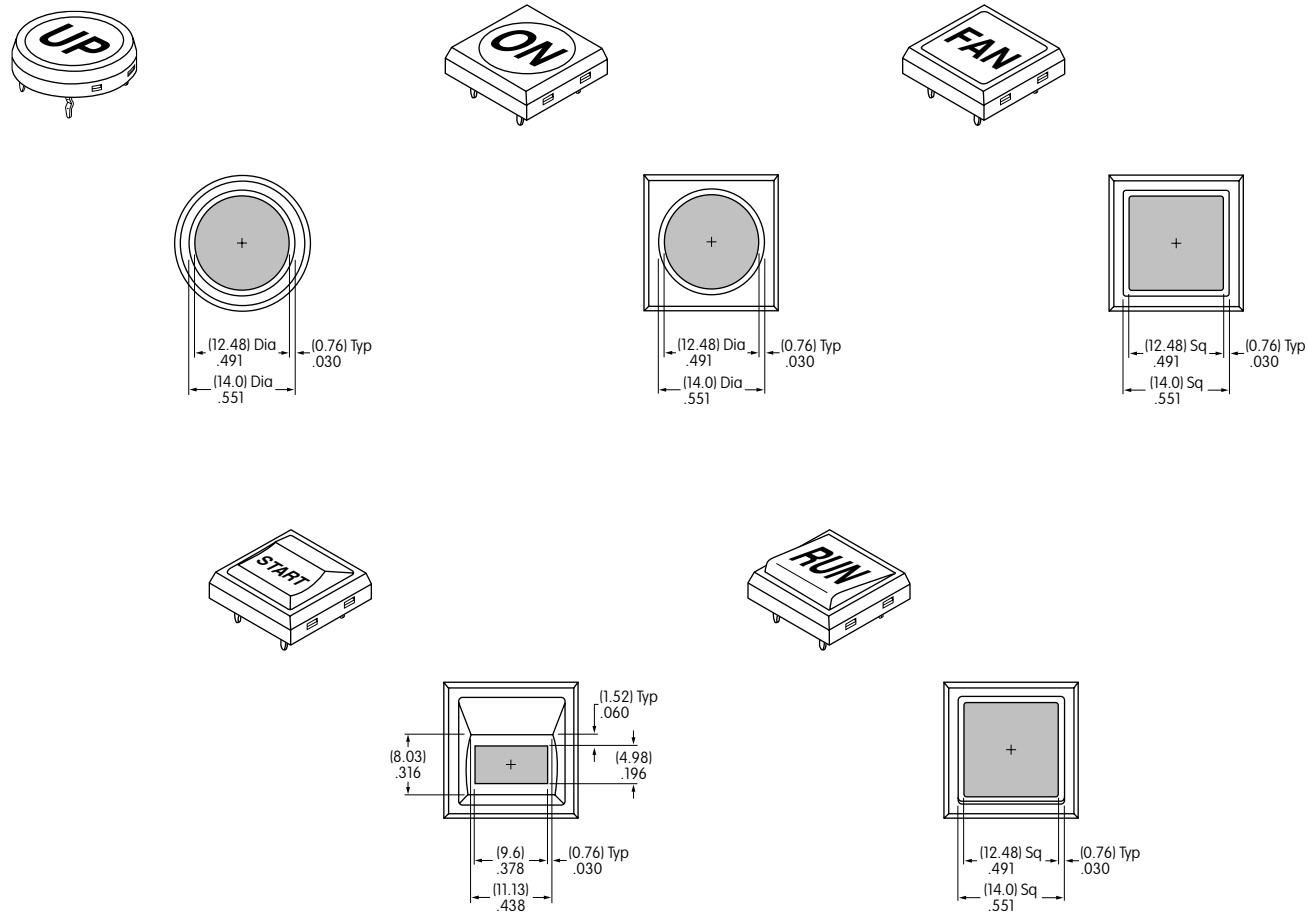


JF15SP4C

LEGENDS

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

Shaded Areas are Printable Areas



Recommended Print Methods: Screen Print or Pad Print. Epoxy based ink is recommended.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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