

Switch

KLS electronic
www.cnkls.com

Slide Switch Series

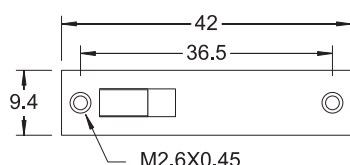
KLS7-SS77-83D01 (8P3T) Slide Switch Series

SPECIFICATIONS

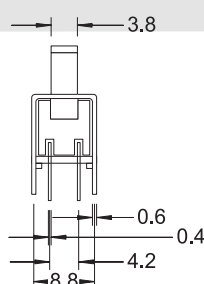
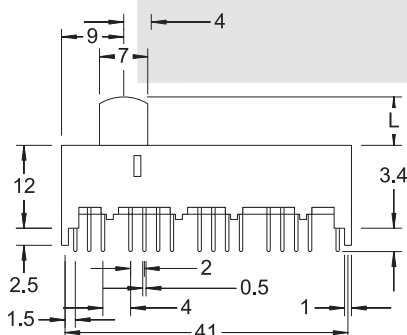
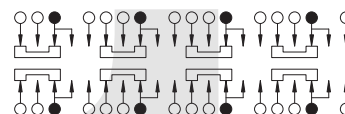
Rating: 0.5A 50VDC
Contact Resistance: 30mΩ Max
Insulation Resistance: 500VDC 100MΩ Min
Dielectric Strength: 500V AC 1 Minute
Operating Force: 100gf~800gf
Electrical Life : 10,000 cycles



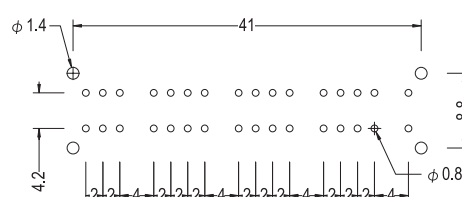
L=7 - 9



SCHEMATIC



P.C.B. HOLE DETAIL



ORDER INFORMATION

KLS7-SS77 - 8 3 D 01 - X X - X

Part Number

Slide Switch Type

Pole

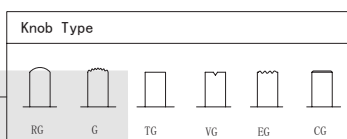
Throw

Travelling					
C	D	E	F	G	H
1.5	2.0	2.5	3.0	3.5	4.0
I	J	K	L	N	P
4.5	5.0	5.5	6.0	7.0	8.0

Operating Force

Knobe Height

Sequential No.



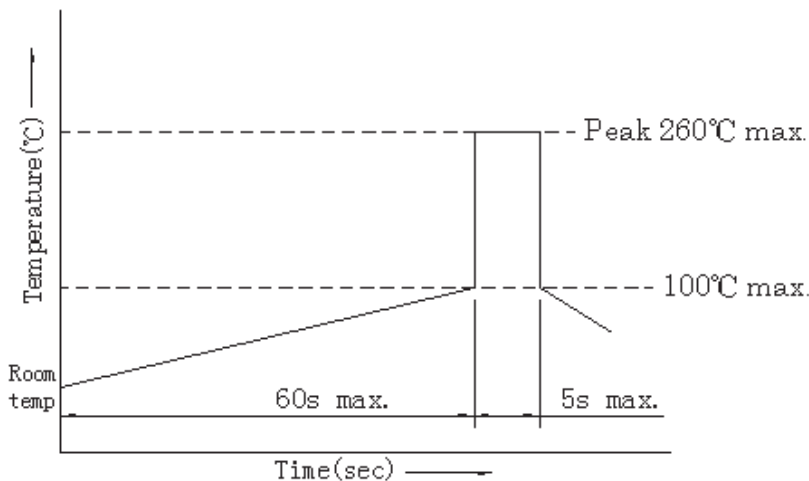
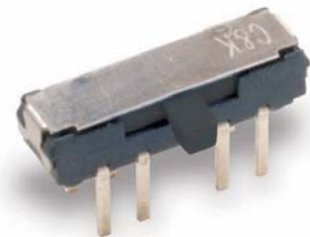
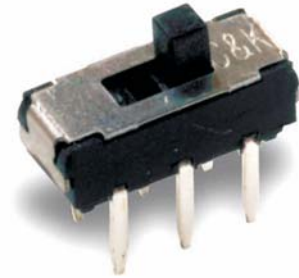
Switch

DIP Switch Series

KLS7-SS031 Series

SPECIFICATIONS

Electrical life: 10,000 cycles
Mechanical life: 10,000 cycles min
Contact Rating: 0.3Amps @6 VDC
Insulation Resistance: > 100M Ω DC250V
Withstand Voltage: AC250V 1 minute
Contact Resistance: < 70m Ω
Ambient Humidity: < 85%RH
Operating Temper : -25°C to 70°C
Operating Force: 250 150 gf
Soldering Process : Hand soldering : Use a soldering iron of 30 watts, controlled at 380°C approximately 3seconds while applying solder.
Wave soldering: When applying wave soldering, The plastic using PA6T(HTN), The peak temperature of the wave Oven should be set to 260 °C max.
Condition for soldering (Wave & Non-washable Type) Temperature Profile: (Figure 1)
Reflow soldering: When applying reflow soldering, the plastic using PA6T(HTN), the peak temperature of the reflow Oven should be set to 250 °C max.
Condition for soldering (Reflow & Non-washable Type) Temperature Profile: (Figure 2)



Items	Condition
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Continuous dipping time	5s max.
Number of soldering	2 times max.

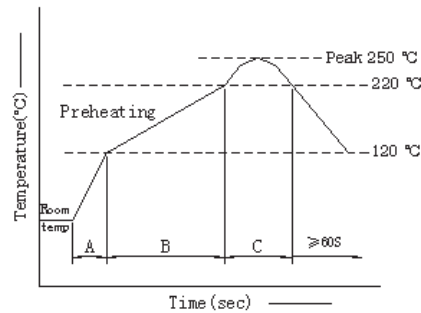
Wave soldering (Figure1)

ORDER INFORMATION

Series	Actuator direction and Case type	Actuator Length	Terminal Type	Base Mt.	Pole	Packing
SS031	(0000)=parallel (0001)=perpendicular	01=2mm; 04=1.7mm (2P2T); 03=3.0mm (2P3T); 05=1.7mm (2P3T).	P=PCB; M=SMT; C=One side 00 bend.	Y=PA66; Y6=PA6T.	12=1P2T; 22=2P2T; 13=1P3T; 23=2P3T.	(0000) T= Tape.

EXAMPLE: SS031-01P-22; SS031-01P-23; SS031B-01M-23; SS031B-01C-12;
SS031-04P-23; SS031B-04C-12; SS031B-05M-23;

Switch

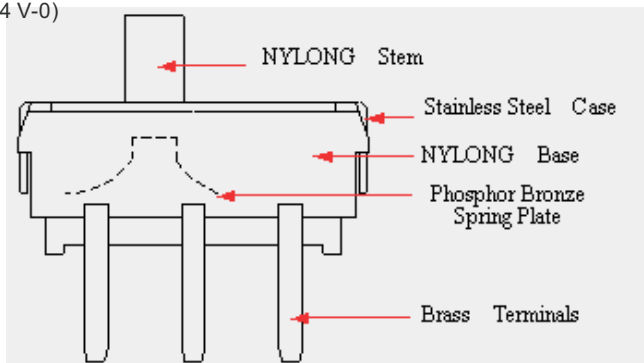


	Components size		Unit
A	Temp.rise gradient	40S	sec
B	Heating time	60-120S	sec
	Heating temperature	120-220 °C	°C
C	Time over 220 °C	60-90S	sec
	Peak temperature	250	°C
	Peak-temp.hold time	moment	sec
	Soldering	1	times

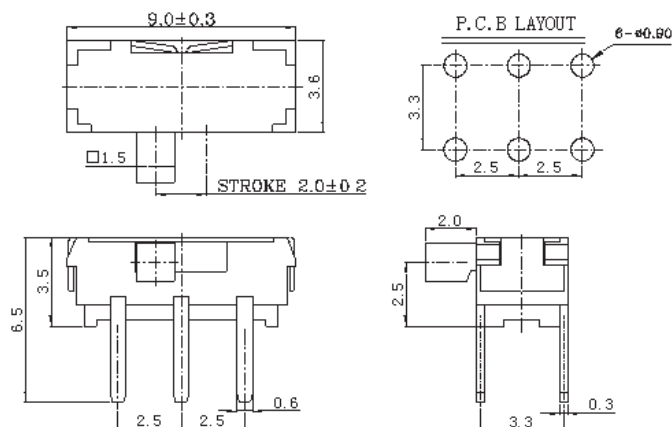
Rellow soldering (Figure 2)

MATERIALS

Stem: High Temperature NYLONG (UL94 V-0)
Case: Stainless Steel
Base: High Temperature NYLONG (UL94 V-0)
Terminals: Brass
Spring plate: Phosphor Bronze



TERMILAL OPTIONS OF SS031-01P -22 (mm)



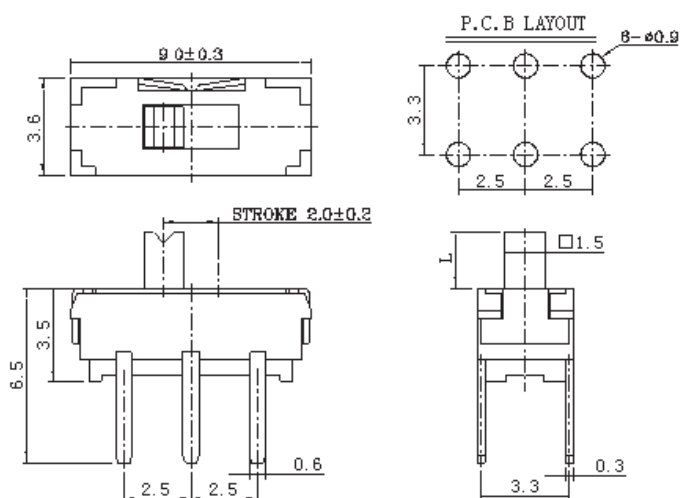
Switch

TERMINAL OPTIONS OF SS031B-□P-22 (mm)



SS031B-□P-22

PART NO.	L	External Form
SS031B-01P-22	2.0	
SS031B-04P-22	1.7	

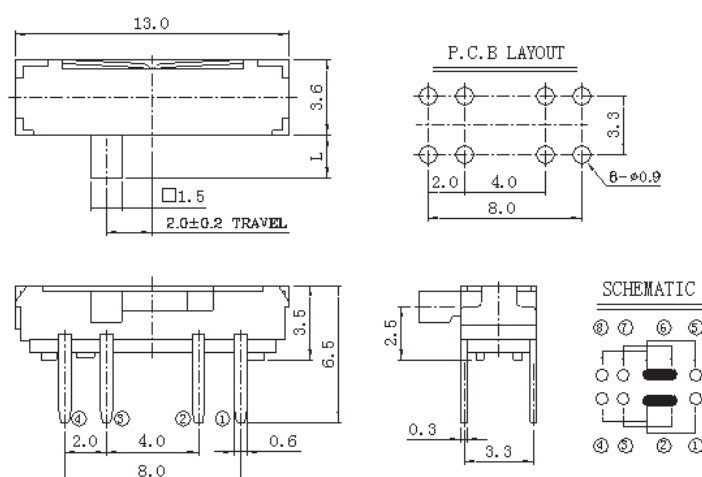


TERMINAL OPTIONS OF SS031-□P-23 (mm)



SS031-□P-23

PART NO.	L
SS031-01P-23	2.0
SS031-04P-23	3.0

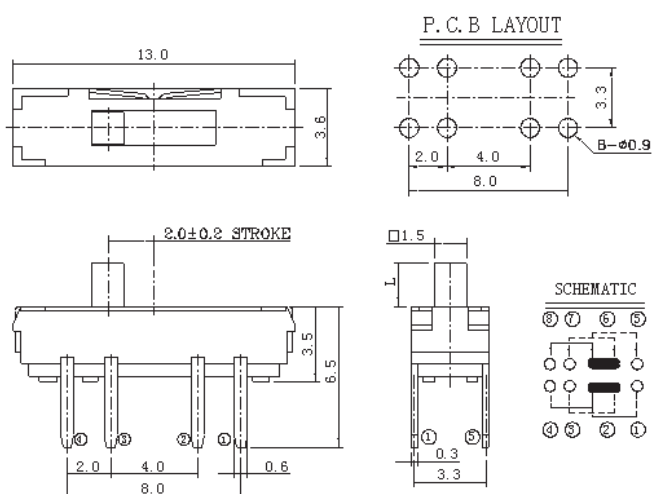


TERMINAL OPTIONS OF SS031B-□P-23 (mm)



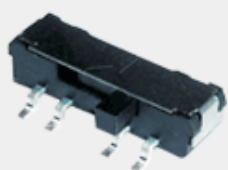
SS031B-□P-23

PART NO.	L
SS031B-01P-23	2.0
SS031B-05P-23	1.7



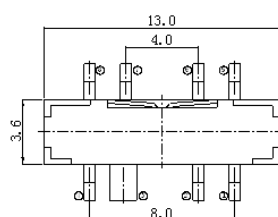
Switch

TERMILAL OPTIONS OF SS031- □ M -23 (mm)

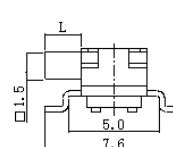
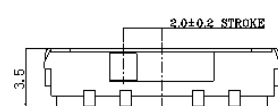
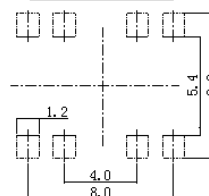


SS031-□M-23

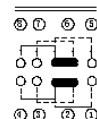
PART NO.	L
SS031-01M-23	2.0
SS031-04M-23	3.0



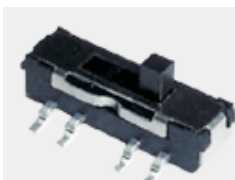
P. C. B LAYOUT



SCHEMATIC

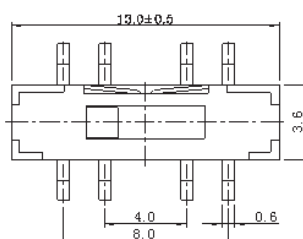


TERMILAL OPTIONS OF SS031B- □M -23 (mm)

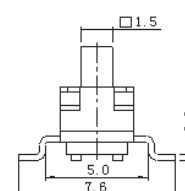
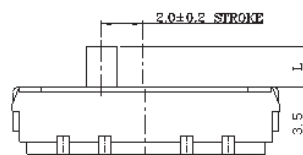
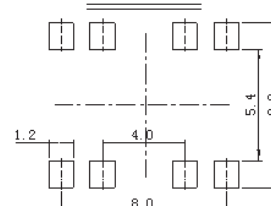


SS031B-□M-23

PART NO.	L
SS031B-01M-23	2.0
SS031B-05M-23	1.7



P. C. B LAYOUT

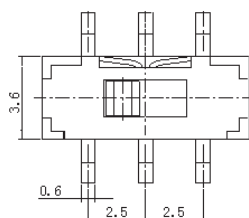


TERMILAL OPTIONS OF SS031B- □M -22 (mm)

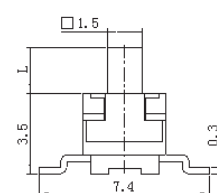
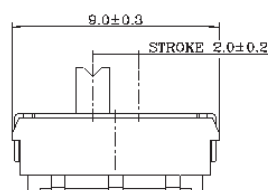
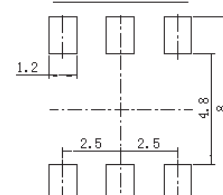


SS031B-□M-22

PART NO.	L	External Form
SS031B-01M-22	2.0	
SS031B-04M-22	1.7	



P. C. B LAYOUT



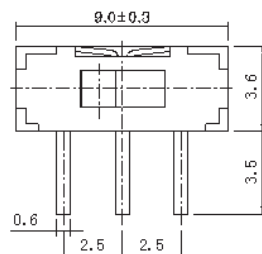
Switch

TERMINAL OPTIONS OF SS031B-□C-12 (mm)

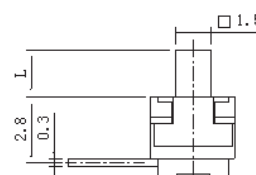
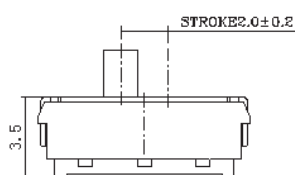


SS031B-□C-12

PART NO.	L	External Form
SS031B-01C-12	2.0	
SS031B-04C-12	1.7	

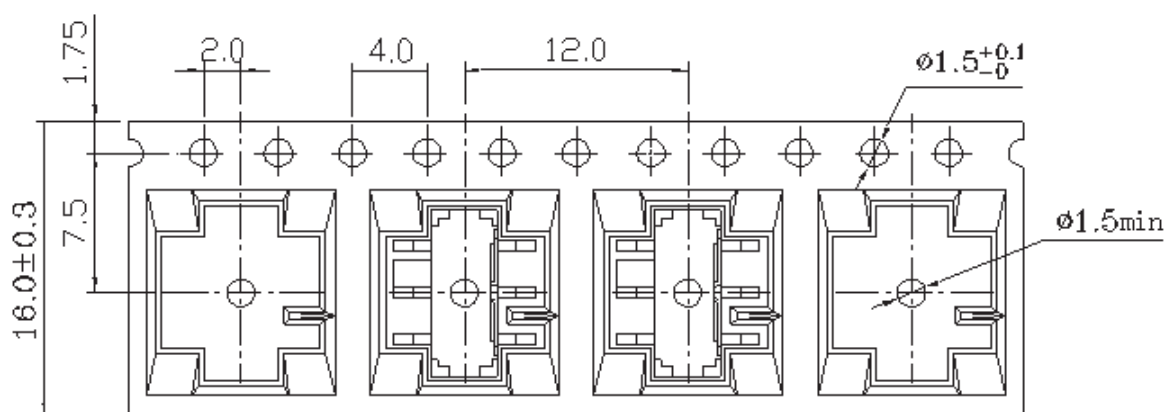


P.C.B LAYOUT



PACKING EXPLANATION :

- 24,000 PCS for one big box(500 PCS for one bag, 8 bags for one small carton,6small cartons for one big box.)
- Taping packaging: SS031-01M-22: 1,200 switches shall be packed in a reel;Ten(10)reels at maximum shall be Packed in a package.Tape form and dimensions (Figure 1)



DIP Switch Series

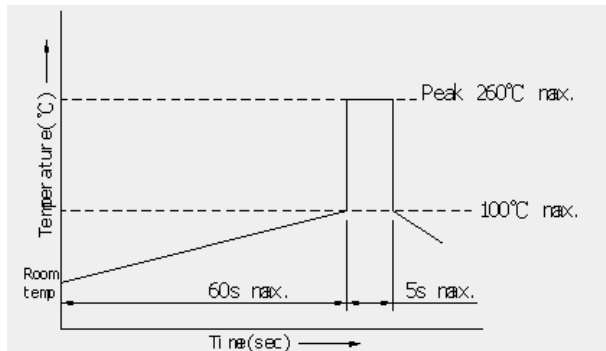
KLS7-SS031FB Series

SPECIFICATIONS

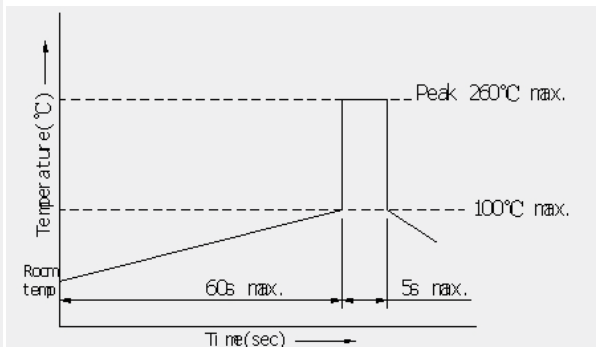
Electrical life:10,000cycles
Mechanical life:10,000 cycles min
Contact Rating:0.1Amps @50VDC
Insulation Resistance: > 100M Ω DC100V
Withstand Voltage:AC100V 1 minute
Contact Resistance: < 100m Ω
Ambient Humidity: < 85%RH
Operating Temper : -25°C to70°C
Operating Force:250 150 gf
Soldering Process :Hand soldering : Use a soldering iron of 30 watts,
Controlled at 360°C approximately 3seconds while applying solder.
Wave soldering: When applying wave soldering,The plastic using PA6T(HTN),
The peak temperature of the wave Oven should be set to 260 °C max.
Condition for soldering (Wave & Non-washable Type) Temperature Profile: (Figure 1)
Reflow soldering:When applying reflow soldering, the plastic using PA6T(HTN),
the peak temperature of the reflow Oven should be set to 250 °C max.
Condition for soldering (Reflow & Non-washable Type) Temperature Profile: (Figure 2)



VII



Items	Condition
Preheating temperature	Ambient temperature of the soldered surface of PC board, 100°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Continuous dipping time	5s max.
Number of soldering	2 times max.



Items	Condition
Preheating temperature	Ambient temperature of the soldered surface of PC board, 100°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Continuous dipping time	5s max.
Number of soldering	2 times max.

ORDER INFORMATION

HOW TO ORDER

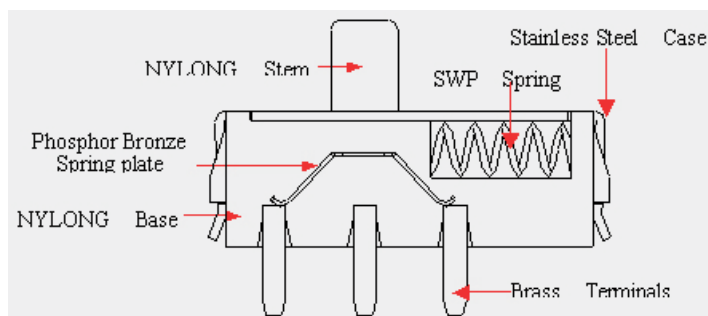
Series	Actuator Length	Terminal Type	Case Type	Pole
<div>□</div> SS031FB SS031FBR	<div>□</div> 01=2.0mm;	<div>□</div> P1=2.0mm P2=3.2mm M=SMT	<div>□</div> (none) =No grounding B=Case grounding	<div>□</div> 12=1P2T,

EXAMPLE:SS031FB-01P1-12;SS031FB-01M-12; SS031FB-01MB-12; SS031FBR-01M-12;

Switch

MATERIALS

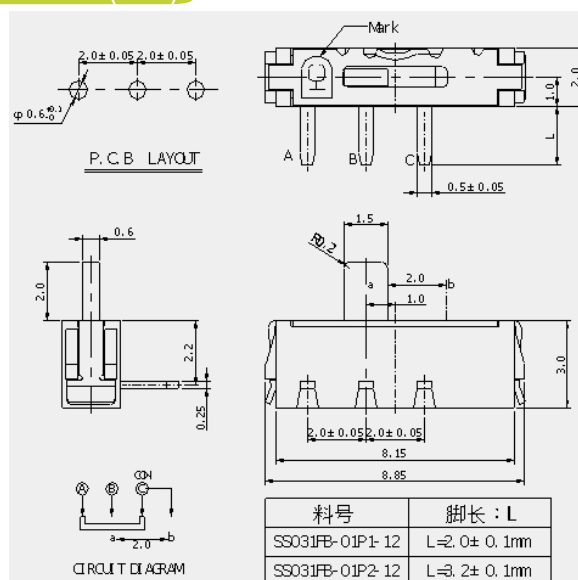
Case: Stainless Steel
Base: High Temperature NYLONG (UL94 V-0)
Stem: High Temperature NYLONG (UL94 V-0)
Terminals: Brass
Spring plate: Phosphor Bronze
Spring: SWP



DIMENSION DRAWING of SS031FB-01P*-12 (mm)



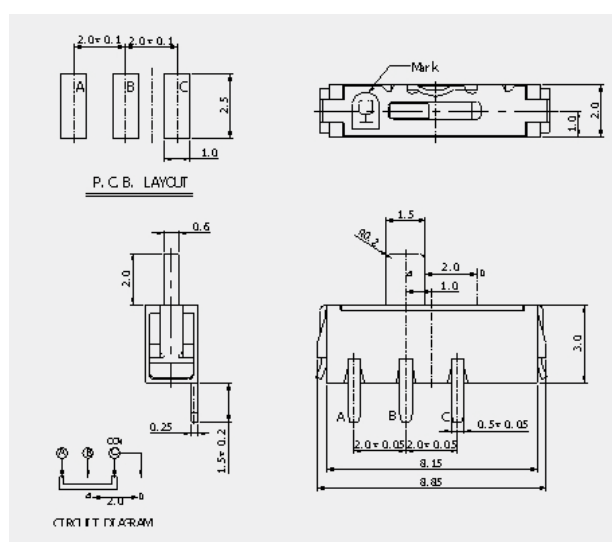
SS031FB-01P*-12



DIMENSION DRAWING of SS031FB-01M-12 (mm)

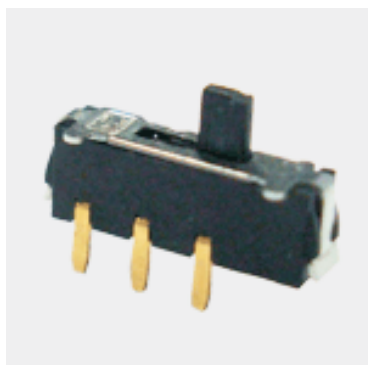


SS031FB-01M-12

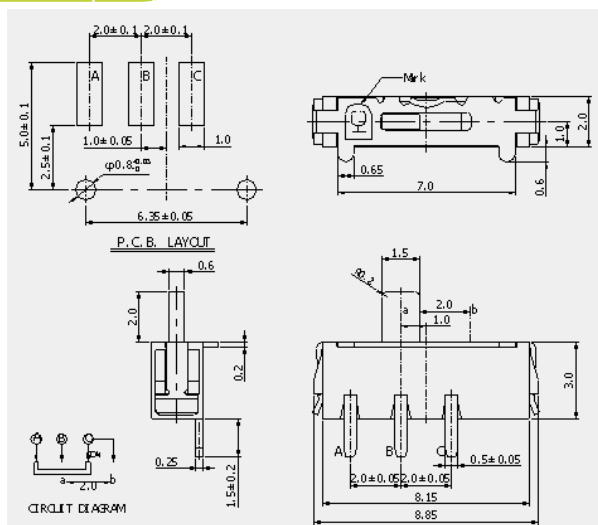


Switch

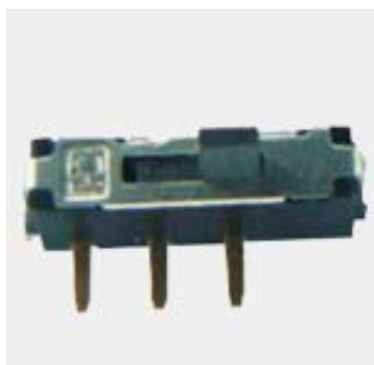
DIMENSION DRAWING of SS031FB-01MB-12 (mm)



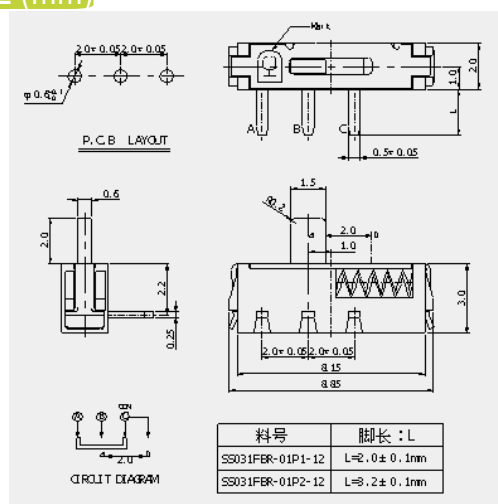
SS031FB-01MB-12



DIMENSION DRAWING of SS031FBR-01P*-12 (mm)



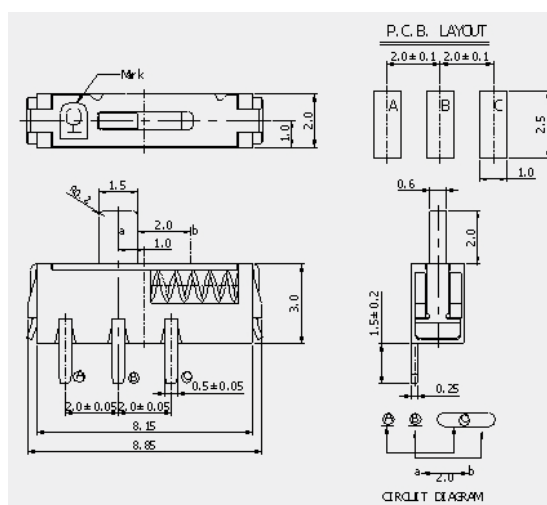
SS031FBR-01P*-12



DIMENSION DRAWING of SS031FBR-01M-12 (mm)



SS031FBR-01M-12



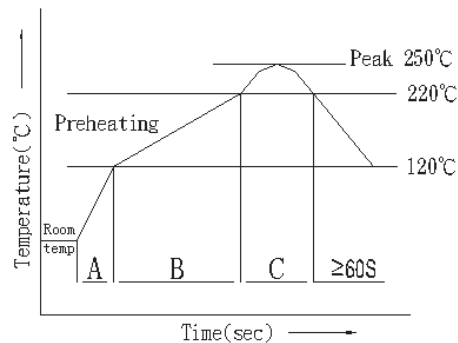
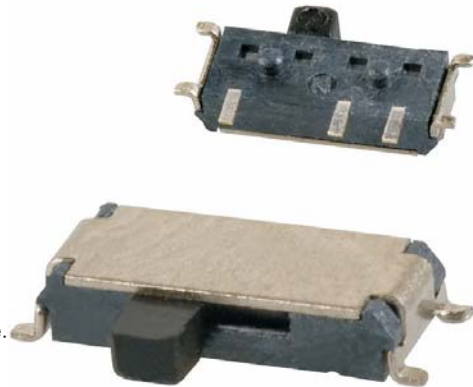
Switch

DIP Switch Series

KLS7-SS038 Series

SPECIFICATIONS

Electrical life:10,000cycles
Mechanical life:10,000 cycles min
Contact Rating:0.3Amps @4 VDC
Insulation Resistance: > 100M Ω DC100V
Withstand Voltage:AC100V 1 minute
Contact Resistance: < 100m Ω
Ambient Humidity: < 85%RH
Operating Temper : -25°C to80°C
Operating Force:200 100 gf
Soldering Process :Hand soldering : Use a soldering iron of 30 watts, controlled at 380°C approximately 3seconds while applying solder.
Reflow soldering:When applying reflow soldering, the peak temperature of the reflow Oven should be set to 250 C max.
Condition for soldering (Reflow & Non-washable Type) Temperature Profile.



	Components size		Unit
A	Temp.rise gradient	40S	sec
B	Heating time	60-120S	sec
	Heating temperature	120-220°C	°C
C	Time over 220°C	60-90S	sec
	Peak temperature	250	°C
	Peak-temp.hold time	moment	sec
	Soldering	1	times

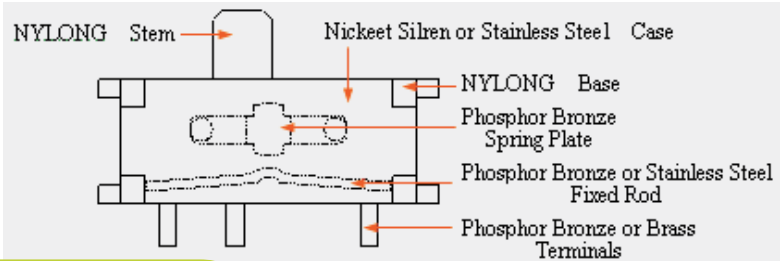
ORDER INFORMATION

Series	Actuator direction and Case type	Actuator Length	Terminal Type	Base Mtl.	Pole	Packing
SS038	(none)=level B=UP	01=1.5mm; 02=2.3mm; 03=1.0mm; 04=1.9mm;	M M1 see chart	none=PA46; Y6=PA6T;	12=1P2T; 22=2P2T;	(none) T= Tape
EXAMPLE: SS038-01M-12-T; SS038-01MY6-12-T; SS038-01M1-12-T; SS038-01M1Y6-12-T; SS038-02M-12-T; SS038-02MY6-12-T; SS038B-03MY6-22-T; SS038-04MY6-22-T;						

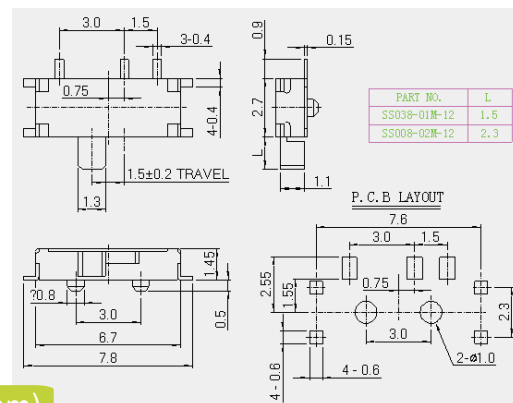
Switch

MATERIALS

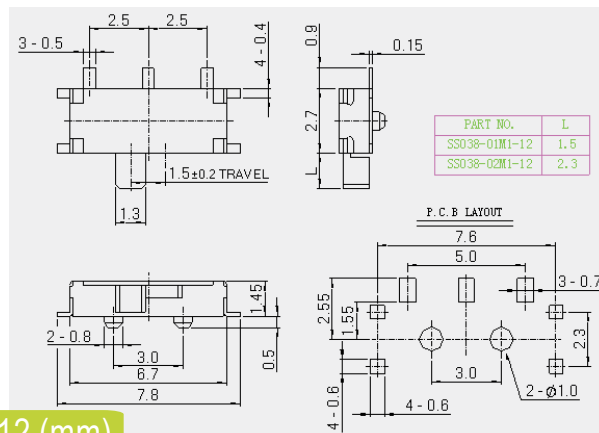
Stem: High Temperature NYLONG (UL94 V-0)
Base: High Temperature NYLONG (UL94 V-0)
Case: Nickeet Silren or Stainless Steel
Terminals: Phosphor Bronze or Brass
Spring plate: Phosphor Bronze
Fixed Rod: Phosphor Bronze or Stainless Steel



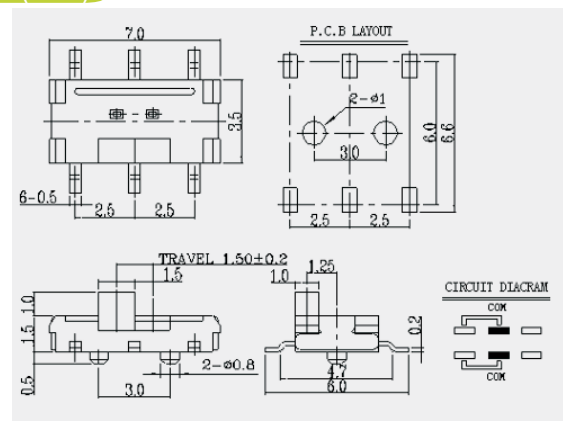
DIMENSION DRAWING of SS038-□M-12 (mm)



DIMENSION DRAWING of SS038-□M1-12 (mm)

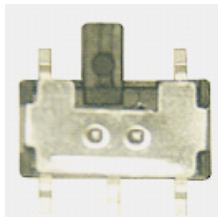


DIMENSION DRAWING of SS038-□M 1-12 (mm)

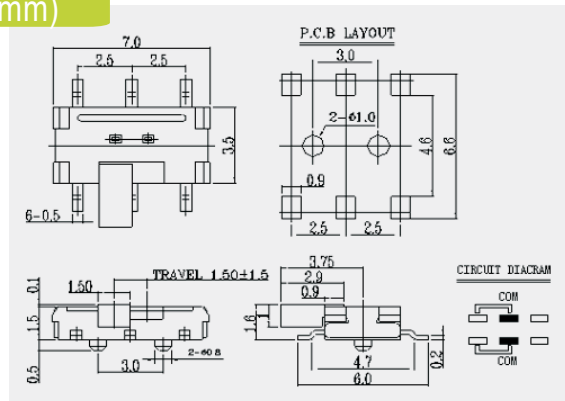


Switch

DIMENSION DRAWING of SS038-04M-22 (mm)



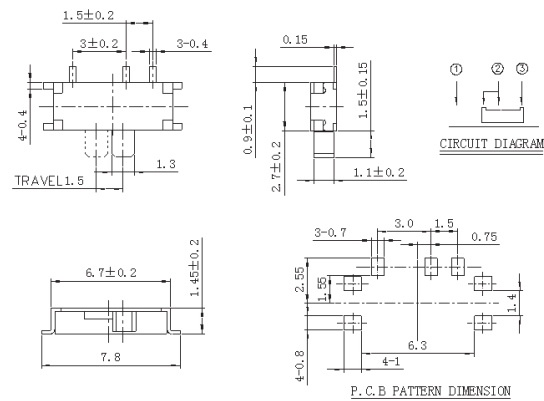
SS038-04M-22



DIMENSION DRAWING of SS038-01MBY7-12 (mm)



SS038-01MBY7-12



PACKING EXPLANATION :

60,000 PCS for one big box
(1,000 PCS for one bag, 10 bags for one small carton,
6small cartons for one big box.)

Taping packaging :

1. SS038-01/02M: 3,000 switches shall be packed in a reel;
Ten(10)reels at maximum shall be packed in a package.
Tape form and dimensions (Figure 1)
2. SS038B-03M-22: 1,500 switches shall be packed in a reel ;
Ten(10)reels at maximum shall be packed in a package.
Tape form and dimensions (Figure 2)
3. SS038-04M-22: 1,500 switches shall be packed in a reel;
Ten(10)reels at maximum shall be packed in a package.
Tape form and dimensions (Figure 3)

