

ITEM	DESC	Q'TY	MATERIALS	TREATMENT	REMARK
1	COVER	1	STAINLESS STEEL	—	—
2	STEM	1	HIGH - TEMP THERMOPLASTIC NYLON UL94V - 0	MOLDED BLACK	—
3	CONTACT	1	PHOSPHOR BRONZE	WITH SILVER PLATING	—
4	BASE	1	HIGH-TEMP THERMOPLASITC LCP	MOLED BLACK	—
5	TERMINAL	1	BRASS	WITH SILVER PLATING	—

L S S □ □ □ □ □ - □ □ - □ □ - □ □ - □ □

Package Style :
 □ = Bag
 B = Tube(Only for LSS)
 T/R = Tape & Reel

V = RoHS & Lead Free Solderable
 Q= Halogen Free

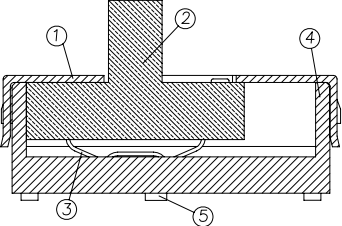
Stem direction:
 □ = LSS(A) Stem in the Right
 LSS(A)M Stem in the Left
 C= LSS(A) Stem in the Left
 LSS(A)M Stem in the Right

□ = Without Pilot (Except LSSM Type)
 P=Base with Post
 Stem Length(Except LSSAM/LSSA Type)
 □ = 2.0mm 40=4.0mm 32=3.2mm

Terminal Length :
 (Only for Through Hole)
 □ = 3.0mm L = 2.50mm M= 2.20mm
 N= 1.80mm R= 1.20mm P= 1.0mm
 S= 0.9mm Q= 1.5mm

Poles-Positions :
 12 = 1P2T
 22 = 2P2T

Slide direction
 □ = Horizontal slide
 M= Horizontal S.M.T. (Only for 1P2T)
 AM=Vertical S.M.T.
 A = Vertical Through Hole



Slide Switch

D	新增推鈕 40 產品	邱明義
C	新增 PIN 腳 1.5mm	邱明義
B	業聯 06042	邱明義
A	DWG.REL	邱明義
REV.	ECO. NO.	APPD.

G	修改與目錄一致	邱明義	TITLE:	APPD. :
F	新增正向推鈕產品	邱明義	SLIDE SWITCH	CHKD. :
E	工變 08149	邱明義	PRROD. NO. : LSS□□□□-□-□-□	PR. : 張慧玲
			FILE NO. : E-V-CS04	REV : G SHEET : 1 of 1

LSS□-V SPECIFICATION

FILE No. : E-V-AS04
 REV. : B1
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1. Style:

This specification describes "DUAL IN-LINE PACKAGE SWITCHES" mainly used as signal switch of electric devices with the general requirements of mechanical and electrical characteristics.

1.1 Operating Temperature Range : -10°C ~ +60°C

1.2 Storage Temperature Range : -20°C ~ +75°C

1.3 The shelf life of product is within 6 months.


2. Current Range:

2.1 Non-Switching : 100mA, 50V DC

2.2 Switching : 0.1A, 12V DC

3. Type of Actuation: Actuated by sliding

4. Test Sequence :

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
ELECTRIC PERFORMANCE	1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product.
	2	Contact Resistance	①To be measured between the two terminals associated with each switch pole. ②Measurements shall be made with a 1kHz shall current contact resistance meter.	60mΩ max. (initial)
	3	Insulation Resistance	500V DC, 1 minute ± 5 sec.	100MΩ min.
	4	withstand -ing Voltage	500V AC (50Hz or 60 Hz) shall be applied between all the adjacent terminals and between the terminal and the frame for 1 minute.	No dielectric breakdown shall be occurred
	5	Capacitance	1 MHz ± 10 kHz	5 pF max.
MECHANICAL PERFORMANCE	6	Operation Force	Applied in the direction of operation. 	200±150gf

LSS□-V SPECIFICATION

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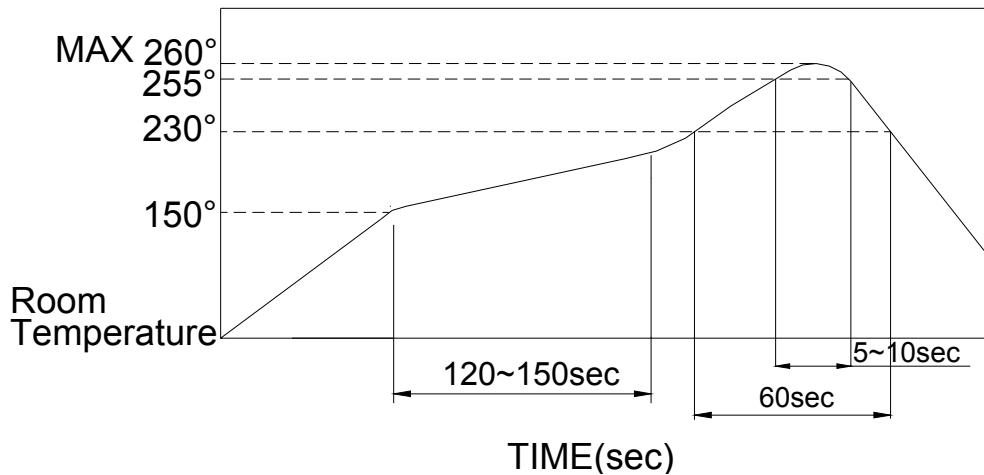
MECHANICAL PERFORMANCE	7	Stop Strength	(a)The static load of 2 kg shall be applied in the operating direction of the control unit for 15 seconds. (b)The static load of 1 kg shall be applied in the right angle of the operating direction unit for 15 seconds.	There shall be no sign of electrical function out of order or damage.	
	8	Soldering Heat Resistance	1.Soldering Temperature :	As shown in item 2~6	
			<table border="1"> <thead> <tr> <th>TEMP</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>260°C±5°C</td> <td>3±1 sec.</td> </tr> </tbody> </table>		TEMP
TEMP	TIME				
260°C±5°C	3±1 sec.				
2.Duration of Solder Immersion: 5±1 sec. 3.Frequency of Soldering Process: 2 times max.					
9	Solderability	①THROUGH HOLE TYPE Soldering Temperature:245±3°C Lead-Free solder : M705E JIS Z 3282 Class A (Tin 96.5% , Silver 3% , Copper 0.5%) (Flux: 5-10 seconds. (Duration of solder Immersion: 5±1 sec. (SMT TYPE SEE PAGE 3/4	No anti-soldering and the coverage of dipping into solder must more than 75% was requested.		
DURABILITY	10	Operation Life	Measurements shall be made following the test set forth below: 1)25 mA, 24V DC resistive load 2)Rate of Operation: 15~20 cycles/ minute 3)Cycle of Operation: 10,000 cycles.	1)As shown in item 3,4 2)Contact Resistance: 120mΩ max. (final-after test)	
WEATHER-PROOF	11	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made : ①Temperature : -20°C±2°C ②Time: 96 hours	1. As shown in item 2~5 2. Operating Force: Within ±30% of item 6	
	12	Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made : 1)Temperature : 85°C±2°C 2)Time: 96 hours	1.As shown in item 3~6 2. Contact Resistance: 120mΩ max.	

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WEATHER-PROOF	13	Resistance Humidity	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made : 1)Temperature : $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 2)Relative Humidity :90~95% 3)Time: 96 hours	1.As shown in item 4,6 2.Contact Resistance: 120mΩ max. 3.Insulation Resistance : 10MΩ min.
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5. SOLDERING CONDITIONS:



- The condition mentioned above is the temperature on the Cu foil of the P.C.B surface.

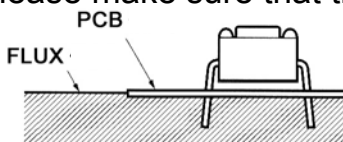
There are cases where board's temperature greatly differs from switch's surface temperature depending on board's material, size, thickness, etc. Care, therefore, should be used not to allow switch's surface temperature to exceed 260°C .

Manual Soldering

Soldering Temperature	Max, 350°C
Continuous Soldering Time	Max, 5 seconds

Precautions in Handling

1. Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.
2. Don't clean the switch body except with top tape sealed type, which can only spray of cleaning method from top of s/w.
3. Please make sure that there is no flux rose over the surface of the PCB



■ Notes on storage conditions:

Do not store in the following environment or it may affect product's function and solderability:

1. temperature of -10 (max) ~ +40 (min) °C & humidity at 85% (min)
2. environment with corrosive gas
3. storage over 6 months
4. place of direct sunlight

Store with proper packaging conditions and to avoid loading heavy force

We suggest to use the products within 3 months or at least 6 months.

After opening the package, the rest products must be stored in the appropriate moisture-proof & airtight environment