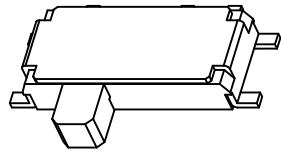
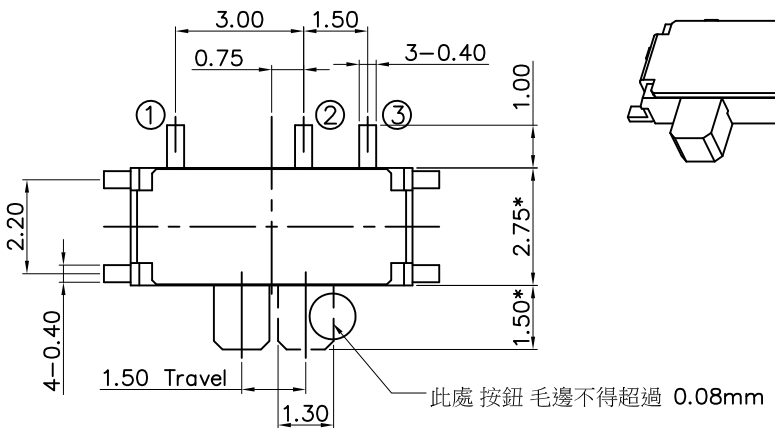


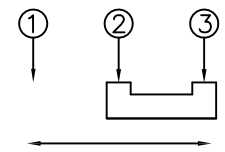
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ZONE	REV	DESCRIPTION	DATE	APPD.

RoHS
Compatible

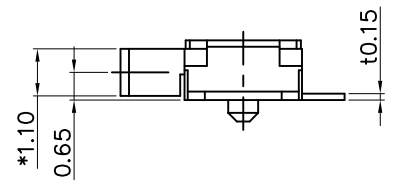
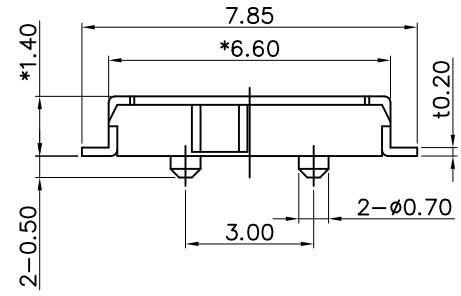
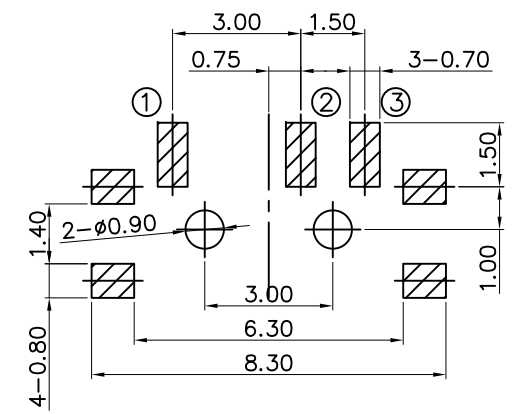
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CIRCUIT DIAGRAM



RECOMMENED P.C.B MOUNTING PATTERN DIMENSION



Specifications

1. Rating : DC 12V, 50mA.
2. Travel : 1.50±0.10mm
3. Contact resistance : 100mΩ Max.
4. Insulation resistance : 100MΩ Min.
5. Operating force : 160±100gf
6. Operating life : 10,000 cycles.
7. Mark "*" is important dimensions.

6	Clip	Phosphor Bronze	1	Ag Plated
5	Stem	PPA	1	White
4	Cover	Brass	1	Ag Plated
3	Spring	Stainless steel	1	_____
2	Terminal	Phosphor Bronze	1	Ag Plated
1	Base	LCP	1	Black
No.	Part Name	Material	Q'ty	Finishing

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Dawning Precision Co., Ltd.
TEL: 886-2-82271388 FAX: 886-2-82272198

DESIGN	Jeff	SCALE		
DRAWING	Jeff	UNIT	mm	
CHECK	John	SIZE	A4: 210*297	
APPROVAL	John	VERSION	02	

TOLERANCE UNLESS OTHERWISE STATED(mm)	
0	±0.35
0.0	±0.30
0.00	±0.20
ANGLE	±2°

PART NAME	SLIDE SWITCH
PART NO	SS-B90AP-W-SP2-S085
DRAWING NO	
DATE	2021/03/30

SLIDE SWITCH SPECIFICATION

1. General

1.1 Appearance and dimensions : Refer to drawing spec

1.2 Operation temperature range : -20°C ~ +85°C

1.3 Preservative temperature range : -40°C ~+85°C

1.4 Switch rating : DC 12V, 50mA

1.5 Standard conditions : Unless otherwise specified, the test and measurements shall be carried out as follows :

Ambient temperature : 5 ~ 35°C

Relative humidity : 45 ~ 85%RH

Air pressure : 86 ~ 106kpa (860 ~ 1060mbar)

However, if doubt arises on the decision based on the measured value under the above-mentioned conditions, The following conditions shall be employed.

Ambient temperature : 20 ± 2°C


Relative humidity : 65 ± 5%RH

Air pressure : 86 ~ 106kpa (860 ~ 1060mbar)

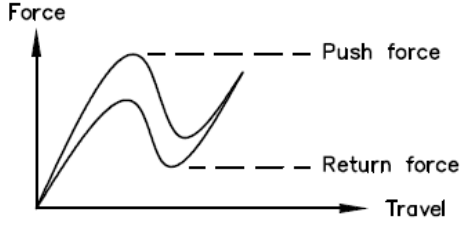
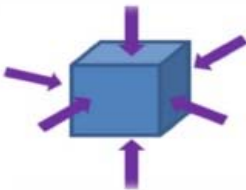
2. Performance

2.1 Electrical characteristics

No	Items	Test Conditions	Performance
2.1.1	Contact Resistance	Measurement shall be made with a 1kHz current contact resistance meter. (20mV, 5 ~ 50mA)	100mΩ Max.
2.1.2	Insulation Resistance	DC 250V (Between terminals) frame for 1 minute.	100MΩ Min.
2.1.3	Dielectric Withstanding Voltage	AC 250V (Between terminals) frame for 1 minute.	No insulation destruction

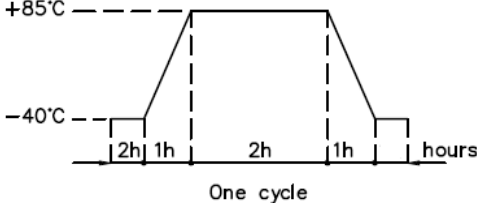
					APPROVAL	CHECK	DESIGN	TITLE	Slide Switch	
01	2020/01/11				<i>Honda</i>	<i>Jeff</i>	<i>Jeff</i>	DRAWING NO	SS-B90AP-W-SP2-S085	1/4
MARK	DATE	APPR	CHECK	DESIGN						


2.2 Mechanical characteristics

No	Items	Test Conditions	Performance
2.2.1	Operation Force	Push by recommended operating condition 	Push force (160 ± 100gf)
2.2.2	Travel	Push by recommended operating condition $F = (\text{Operation force}) \times 2$	1.5 ± 0.1mm
2.2.3	Push strength	A static load of 9.8N (1kgf) shall be applied in the direction of stem operation for a period of 60 seconds.	No damage (Electrical and Mechanical)
2.2.4	Vibration Test	(1) Amplitude : 1.5mm (2) Sweep rate : 10-55-10Hz for 1 minute. (3) Sweep method : Logarithmic frequency sweep rate. (4) Vibration direction : X.Y.Z (3 directions). (5) Time : Each direction 2 hours (Total 6 hours).	No. 2.1 and 2.2.1 to 2.2.2 shall be satisfied.
2.2.5	Shock	Peak acceleration : 500m/S ² Pulse duration : 11ms Test time-6direction,each 3 times total 18 times 	Contact resistance : 200mΩ Max. Insulation resistance : 100MΩ Min. Withstand voltage : No. destruction. No. 2.2.1 to 2.2.2 shall be satisfied.
2.2.6	Solderability	After sprayed flux Temperature : 245 ± 5°C Soldering time : 3 ± 0.5 sec	90% or more of surface area of the portion immersed in solder shall be covered by new solder
2.2.7	Soldering heat resistance	Soldering temperature : 260 ± 5°C Soldering time : 3 ± 0.5 sec	No damage (Electrical and Mechanical)

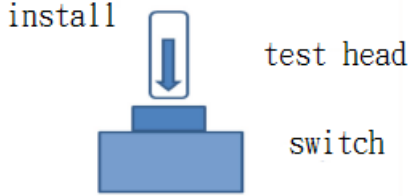
					APPROVAL	CHECK	DESIGN	TITLE	Slide Switch	
01	2020/01/11				<i>Honda</i>	<i>Jeff</i>	<i>Jeff</i>	DRAWING	SS-B90AP-W-SP2-S085	2/4
MARK	DATE	APPR	CHECK	DESIGN				NO		

2.3 Climatic characteristics

No	Items	Test Conditions	Performance
2.3.1	Cold test	(1) Temperature : $-40 \pm 2^{\circ}\text{C}$ (2) Duration of test : 96 hours (3) Take off a drop water (4) Standard conditions after test : 1 hour	Contact Resistance : 200mΩ Max. Insulation resistance : 100MΩ Min. Withstand voltage : No. destruction. No. 2.2.1 to 2.2.2 shall be satisfied.
2.3.2	Heat test	(1) Temperature : $80 \pm 2^{\circ}\text{C}$ (2) Duration of test : 96 hours (3) Standard conditions after test : 1 hour	
2.3.3	Temperature Cycle	(1) Test cycles : 5 cycles (2) Standard conditions after test : 1 hour 	
2.3.4	Humidity Test	(1) Temperature : $60 \pm 2^{\circ}\text{C}$ (2) Relative humidity : 90 ~ 95% (3) Duration of test : 96 hours (4) Take off a drop water (5) Standard conditions after test : 1 hour	

					APPROVAL	CHECK	DESIGN	TITLE	Slide Switch	
01	2020/01/11				<i>Honda</i>	<i>Jeff</i>	<i>Jeff</i>	DRAWING NO	SS-B90AP-W-SP2-S085	3/4
MARK	DATE	APPR	CHECK	DESIGN						

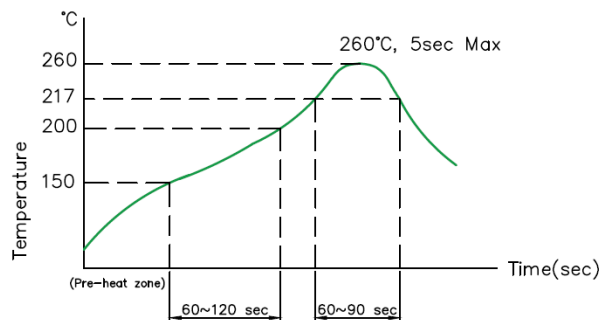
2.4 Durability characteristics

No	Items	Test Conditions	Performance
2.4.1	Endurance Test	<p>(1) Operation speed : 20~30 time/s (2) Push force : Maximum value of operation force (3) Operation number : 10,000 Cycles</p> 	<p>Contact resistance : 200mΩ Max. Bouncing : 10ms Max. Insulation resistance : 100MΩ Min. Withstand voltage : No. destruction. Variations rate of operation force shall be within ±30% to the value before testing. No. 2.2.2 shall be satisfied.</p>

3. SOLDERING

3.1 Reflow soldering conditions

ITEM	CONDITION
Preheat temperature	150°C Max (Environmental temperature of soldering surface of P.C.B)
Preheat time	60 sec Max.
Temperature of solder	260 ± 5°C Max.
Time of immersion	Within 5 sec

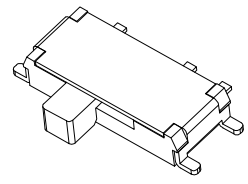


- (1) After switches were soldered, please be careful not clean switches with solvent.
- (2) In the case of using soldering iron, soldering conditions shall be 280°C Max and 3 sec Max.
- (3) Right after switches were soldered, Please be careful not to load on the knobs of switches.

					APPROVAL	CHECK	DESIGN	TITLE	Slide Switch	
								DRAWING NO	SS-B90AP-W-SP2-S085	4/4
01	2020/01/11				<i>Honda</i>	<i>Jeff</i>	<i>Jeff</i>			
MARK	DATE	APPR	CHECK	DESIGN						

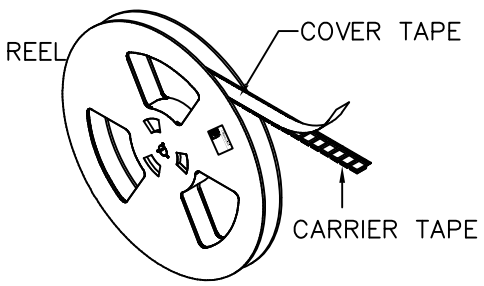
RoHS
Compatible

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2021.03.31
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PACKING QUANTITY:

1. Part conforms to EIA-481 standards.
2. Component packing : 3,000 PCS/Reel

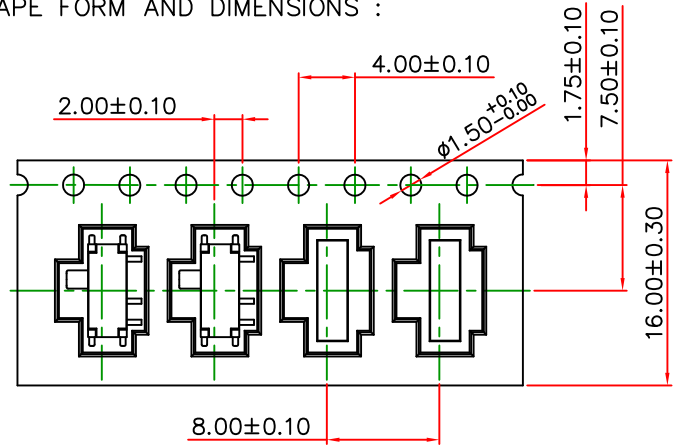


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ZONE	REV	DESCRIPTION	DATE	APPD.

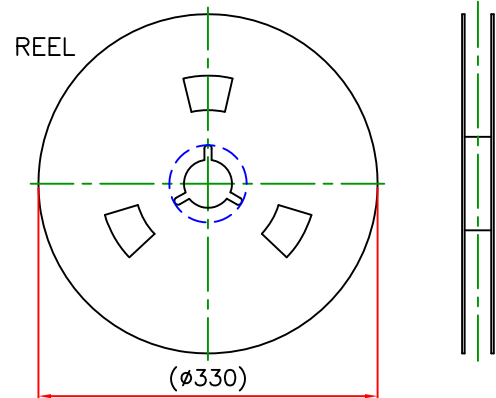
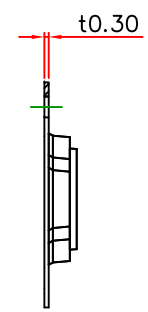
STRUCTURE AND MATERIALS :

ITEM	DESCRIPTION
COVER TAPE	Polyester
CARRIER TAPE	Polystyrene
REEL	Polystyrene

TAPE FORM AND DIMENSIONS :



REEL FORM AND DIMENSIONS :



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Dawning Precision Co., Ltd.
TEL: 886-2-82271388 FAX: 886-2-82272198

DESIGN	Jeff	SCALE		
DRAWING	Jeff	UNIT	mm	
CHECK	Jeff	SIZE	A4: 210*297	
APPROVAL	John	VERSION	01	

TOLERANCE UNLESS OTHERWISE STATED(mm)
less than 30 — ±0.2
30~50 — ±0.3
50~100 — ±0.5
ANGIE — ±2°

PART NAME	PACKING SPEC
PART NO	
DRAWING NO	SS-B90AP-W-SP2-S085
DATE	2021/03/31