

Customer:

ALPS EUROPE DISTRIBUTION

Attention:

Your ref. No.:

Your Part No. : SSSS91B600

No. SW065068A

Date: 2006- 07- 20

SPECIFICATION

ALPS' ;

STSSS9132

MODEL:

Spec. No. : SSSS9-S-501

Sample No.: F3291304M

RECEIPT STATUS

RECEIVED

By Date

Signature

Name

Title

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Tomita

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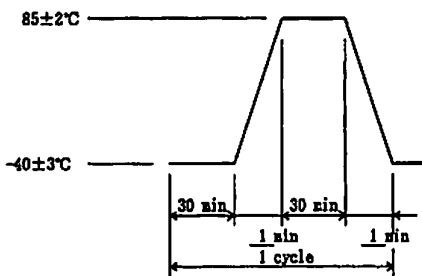
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1. General 一般事項 1.1 Application 適用範囲 This specification is applied to low current circuit (Secondary circuit) slide switch used for electronic equipment. この仕様書は主として電子機器に用いる低電流回路用(2次回路用)スライドスイッチに適用する。 1.2 Operating temperature range 使用温度範囲: -40 ~ 85°C 1.3 Storage temperature range 保存温度範囲: -40 ~ 85°C 1.4 Test conditions 試験状態 Unless otherwise specified, the atmospheric conditions for making measurements and tests are as follows. 試験及び測定は特に規定がない限り以下の標準状態のもとで行う。 Ambient temperature 温度: 5~35°C △ Relative humidity 相対湿度: 45~90% △ Air pressure 気圧: 86~106kPa (860~1060mmHg) Should any doubt arise in judgement, tests shall be conducted at the following conditions. ただし、判定に疑義を生じた場合は以下の標準状態で行う。 Ambient temperature 温度: 20±2°C Relative humidity 相対湿度: 60~70% △ Air pressure 気圧: 86~106kPa (860~1060mmHg) 2. Appearance, construction and dimensions 外觀、構造、寸法 2.1 Appearance 外觀 Switch shall have good finishing, and no rust, crack or plating failures. 各部の仕上げは良好で、機械上有害な錆、割れ、めっき不良及び剥離等があってはならない。 2.2 Construction and dimensions 構造、寸法 Refer to individual product drawing. 個別製品図による。 3. Rating 定格 △ Maximum rating 最大定格 $\frac{12}{12}$ V DC $\frac{0.1}{0.5}$ A (Resistive load) (抵抗負荷) Minimum rating 最小定格 1 V DC 10mA (Resistive load) (抵抗負荷) 4. Electrical specification 電気的性能 <table border="1" style="width: 100%;"> <thead> <tr> <th>Items 項目</th> <th>Test conditions 試験条件</th> <th>Criteria 判定基準</th> </tr> </thead> <tbody> <tr> <td>4.1 Contact resistance 接触抵抗</td> <td>Shall be measured at 1 kHz±200 Hz (20 mV MAX, 50 mA MAX) or 1 A, 5 V DC by voltage drop method. 1 kHz±200 Hz、電圧 20 mV 以下、電流 50 mA 以下による方法。 または DC 5V, 1A の電圧降下法で測定する。</td> <td>30 mΩ MAX</td> </tr> <tr> <td>4.2 Insulation resistance 絶縁抵抗</td> <td>Test voltage: 500 V DC, measured after 1 min ± 5 s Applied position: Between all terminals Between terminals and ground(frame) DC 500 V の電圧を 1分±5秒間端子相互間、端子フレーム間に印加し、測定する。</td> <td>100 MΩ MIN</td> </tr> <tr> <td>4.3 Voltage proof 耐電圧</td> <td>Test voltage: 500 V AC (50~60Hz, cut-off current 2 mA) Duration: 1 min Applied position: Between all terminals Between terminals and ground(frame) AC 500 V (50~60Hz、感度電流 2 mA) の電圧を 1分間端子相互間、端子フレーム間に印加する。</td> <td>No dielectric breakdown shall occur. 絶縁破壊のないこと。</td> </tr> <tr> <td>4.4 Changeover timing 切換タイミング</td> <td></td> <td>Refer to individual product drawing. 個別製品図による。</td> </tr> </tbody> </table> 5. Mechanical specification 機械的性能 <table border="1" style="width: 100%;"> <thead> <tr> <th>Items 項目</th> <th>Test conditions 試験条件</th> <th>Criteria 判定基準</th> </tr> </thead> <tbody> <tr> <td>5.1 Operating force 作動力</td> <td>A static load shall be applied to the root of actuator in operating direction. 操作部の根元に作動方向へ静荷重を加えて測定する。 </td> <td>Refer to individual product drawing. 個別製品図による。</td> </tr> <tr> <td>5.2 Robustness of terminal 端子強度</td> <td>A static load of 3 N (300 mN) shall be applied to the tip of terminal in a desired direction for 1 min. The test shall be done once per terminal. 端子先端の一方へ 3 N (300 mN) の静荷重を 1分間加える。 ただし、回数は1端子当たり1回とする。</td> <td>Shall be free from terminal looseness, damage and breakage of terminal holding portion. Terminals may be bent after test. Electrical performance requirement specified in item 4 shall be satisfied. 端子の脱落、破損及び端子保持部の破損のないこと。ただし、端子の曲がりは差し支えないものとする。また、試験後 4項の電気的性能を満足すること。</td> </tr> </tbody> </table> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th colspan="2">APPROVED</th> <th colspan="2">CHECKED</th> <th colspan="2">DESIGNED</th> </tr> </thead> <tbody> <tr> <td>3/5</td> <td>△ 1 橋本光幸</td> <td>3/5</td> <td>△ 1 橋本光幸</td> <td>3/5</td> <td>△ 1 橋本光幸</td> </tr> <tr> <td>DATE</td> <td>June 21, 2003</td> <td>DATE</td> <td>June 21, 2003</td> <td>DATE</td> <td>June 21, 2003</td> </tr> <tr> <td>APPD</td> <td>F.Y.</td> <td>CHKD</td> <td>F.Y.</td> <td>DSGD</td> <td>H.K.</td> </tr> <tr> <td>PAGE</td> <td>SYN</td> <td>PAGE</td> <td>SYN</td> <td>PAGE</td> <td>SYN</td> </tr> <tr> <td colspan="2">BACKGROUND</td> <td colspan="2">BACKGROUND</td> <td colspan="2">BACKGROUND</td> </tr> <tr> <td colspan="2">DATE</td> <td colspan="2">DATE</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">APPD</td> 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<tr></tr></tbody></table>						Items 項目	Test conditions 試験条件	Criteria 判定基準	4.1 Contact resistance 接触抵抗	Shall be measured at 1 kHz±200 Hz (20 mV MAX, 50 mA MAX) or 1 A, 5 V DC by voltage drop method. 1 kHz±200 Hz、電圧 20 mV 以下、電流 50 mA 以下による方法。 または DC 5V, 1A の電圧降下法で測定する。	30 mΩ MAX	4.2 Insulation resistance 絶縁抵抗	Test voltage: 500 V DC, measured after 1 min ± 5 s Applied position: Between all terminals Between terminals and ground(frame) DC 500 V の電圧を 1分±5秒間端子相互間、端子フレーム間に印加し、測定する。	100 MΩ MIN	4.3 Voltage proof 耐電圧	Test voltage: 500 V AC (50~60Hz, cut-off current 2 mA) Duration: 1 min Applied position: Between all terminals Between terminals and ground(frame) AC 500 V (50~60Hz、感度電流 2 mA) の電圧を 1分間端子相互間、端子フレーム間に印加する。	No dielectric breakdown shall occur. 絶縁破壊のないこと。	4.4 Changeover timing 切換タイミング		Refer to individual product drawing. 個別製品図による。	Items 項目	Test conditions 試験条件	Criteria 判定基準	5.1 Operating force 作動力	A static load shall be applied to the root of actuator in operating direction. 操作部の根元に作動方向へ静荷重を加えて測定する。 	Refer to individual product drawing. 個別製品図による。	5.2 Robustness of terminal 端子強度	A static load of 3 N (300 mN) shall be applied to the tip of terminal in a desired direction for 1 min. The test shall be done once per terminal. 端子先端の一方へ 3 N (300 mN) の静荷重を 1分間加える。 ただし、回数は1端子当たり1回とする。	Shall be free from terminal looseness, damage and breakage of terminal holding portion. Terminals may be bent after test. Electrical performance requirement specified in item 4 shall be satisfied. 端子の脱落、破損及び端子保持部の破損のないこと。ただし、端子の曲がりは差し支えないものとする。また、試験後 4項の電気的性能を満足すること。	APPROVED		CHECKED		DESIGNED		3/5	△ 1 橋本光幸	3/5	△ 1 橋本光幸	3/5	△ 1 橋本光幸	DATE	June 21, 2003	DATE	June 21, 2003	DATE	June 21, 2003	APPD	F.Y.	CHKD	F.Y.	DSGD	H.K.	PAGE	SYN	PAGE	SYN	PAGE	SYN	BACKGROUND		BACKGROUND		BACKGROUND		DATE		DATE		DATE		APPD		CHKD		DSGD		F.Y.		F.Y.		H.K.		June 21, 2003		June 21, 2003		June 21, 2003		APPD		CHKD		DSGD		F.Y.		F.Y.		H.K.		June 21, 2003		June 21, 2003		June 21, 2003		APPD		CHKD		DSGD		F.Y.		F.Y.		H.K.		June 21, 2003		June 21, 2003		June 21, 2003		APPD		CHKD		DSGD		F.Y.		F.Y.		H.K.		June 21, 2003		June 21, 2003		June 21, 2003		APPD		CHKD		DSGD		F.Y.		F.Y.		H.K.		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4.1 Contact resistance 接触抵抗	Shall be measured at 1 kHz±200 Hz (20 mV MAX, 50 mA MAX) or 1 A, 5 V DC by voltage drop method. 1 kHz±200 Hz、電圧 20 mV 以下、電流 50 mA 以下による方法。 または DC 5V, 1A の電圧降下法で測定する。	30 mΩ MAX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
4.2 Insulation resistance 絶縁抵抗	Test voltage: 500 V DC, measured after 1 min ± 5 s Applied position: Between all terminals Between terminals and ground(frame) DC 500 V の電圧を 1分±5秒間端子相互間、端子フレーム間に印加し、測定する。	100 MΩ MIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
4.3 Voltage proof 耐電圧	Test voltage: 500 V AC (50~60Hz, cut-off current 2 mA) Duration: 1 min Applied position: Between all terminals Between terminals and ground(frame) AC 500 V (50~60Hz、感度電流 2 mA) の電圧を 1分間端子相互間、端子フレーム間に印加する。	No dielectric breakdown shall occur. 絶縁破壊のないこと。																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
4.4 Changeover timing 切換タイミング		Refer to individual product drawing. 個別製品図による。																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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5.1 Operating force 作動力	A static load shall be applied to the root of actuator in operating direction. 操作部の根元に作動方向へ静荷重を加えて測定する。 	Refer to individual product drawing. 個別製品図による。																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
5.2 Robustness of terminal 端子強度	A static load of 3 N (300 mN) shall be applied to the tip of terminal in a desired direction for 1 min. The test shall be done once per terminal. 端子先端の一方へ 3 N (300 mN) の静荷重を 1分間加える。 ただし、回数は1端子当たり1回とする。	Shall be free from terminal looseness, damage and breakage of terminal holding portion. Terminals may be bent after test. Electrical performance requirement specified in item 4 shall be satisfied. 端子の脱落、破損及び端子保持部の破損のないこと。ただし、端子の曲がりは差し支えないものとする。また、試験後 4項の電気的性能を満足すること。																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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5.3	Robustness of actuator 操作部強度	A static load of <u>30 N (3.0 kgf)</u> shall be applied in the operating direction at the root of actuator for 15 s. 操作部の根元に作動方向に <u>30 N (3.0 kgf)</u> の静荷重を15秒間加える。 A static load of <u>10 N (1.0 kgf)</u> shall be applied in the pull direction of actuator for 15 s. 操作部の引張方向に <u>10 N (1.0 kgf)</u> の静荷重を15秒間加える。 Vertical knob type (つまみ上出しタイプ) A static load of <u>10 N (1.0 kgf)</u> shall be applied in the perpendicular direction of operation at the tip of actuator for 15 s. 操作部の先端に作動方向と直角に <u>10 N (1.0 kgf)</u> の静荷重を15秒間加える。 Horizontal knob type (つまみ横出しタイプ) A static load of <u>5 N (0.5 kgf)</u> shall be applied in the perpendicular direction of operation at the tip of actuator for 15 s. 操作部の先端に作動方向と直角に <u>5 N (0.5 kgf)</u> の静荷重を15秒間加える。	Shall be free from pronounced wobble, deformation and mechanical abnormalities. 著しいガタ及び曲がりのないこと。 また、機械的に異常のないこと。	
5.4	Wobble of actuator 操作部の揺れ	Run-out (P-P) shall be measured by applying a static load of <u>1 N (0.1 kgf)</u> in the perpendicular direction of operation at the tip of actuator. 操作部の先端に作動方向と直角に <u>1 N (0.1 kgf)</u> の静荷重を加え、揺れ幅(最大値)を測定する。	Length of knob つまみ長さ ~ 5 mm <u>1</u> mm MAX (P-P) ~ 8 mm <u>2.5</u> mm MAX (P-P)	
5.5	Vibration 耐振性	Switch shall be secured to a testing machine by a normal mounting device and method. Switch shall be measured after following test. スイッチを正規の取付用具、取付方法で試験機に固定し、下記条件で試験を行い、試験後測定する。 (1)Vibration frequency range 振動数範囲: 10~55 Hz (2)Total amplitude 全振幅: 1.5 mm (3)Sweep ratio 掃引の割合: 10-55-10 Hz Approx. 1 min 約1分 (4)Method of changing the sweep vibration frequency: Logarithmic or linear 対数又は直線近似 掃引振動数の変化方法 (5)Direction of vibration: Three perpendicular directions including actuator 振動の方向 操作部を含む直交3方向 (6)Duration 振動時間: 2 h each (6 h in total) 各2時間(計6時間)	Contact resistance 接触抵抗 (Item 4.1): <u>30</u> mΩ MAX Insulation resistance 絶縁抵抗 (Item 4.2): <u>100</u> MΩ MIN Voltage proof 耐電圧 (Item 4.3): Apply <u>500</u> V AC for 1 min. No dielectric breakdown shall occur. 絶縁破壊のないこと。 Operating force 作動力 (Item 5.1): Within specified value. 規格値内とする。 Shall be free from mechanical abnormalities. 機械的に異常がないこと。	
5.6	Shock 耐衝撃性	Switch shall be measured after following test. 下記条件で試験を行い、試験後測定する。 (1)Mounting method 取付方法: Normal mounting method 正規の方法で取り付ける。 (2)Acceleration 加速度: <u>490 m/s² (50 g)</u> (3)Duration 作用時間: 11 ms (4)Test direction 試験方向: 6 directions 6面 (5)Number of shocks 試験回数: 3 times per direction (18 times in total) 各方向3回(計18回)	Contact resistance 接触抵抗 (Item 4.1): <u>30</u> mΩ MAX Insulation resistance 絶縁抵抗 (Item 4.2): <u>100</u> MΩ MIN Voltage proof 耐電圧 (Item 4.3): Apply <u>500</u> V AC for 1 min. No dielectric breakdown shall occur. 絶縁破壊のないこと。 Operating force 作動力 (Item 5.1): Within specified value. 規格値内とする。 Shall be free from mechanical abnormalities. 機械的に異常がないこと。	
5.7	Solderability はんだ付け性	Switch shall be checked after following test. 下記条件で試験を行い、試験後確認する。 (1)Solder はんだ: H63A (JIS Z 3282) (2)Flux フラックス: Rosin flux (JIS K 5902) having a nominal composition of 25% solids by mass of water white rosin in 2-propanol (JIS K 8839) solution. ロジン (JIS K 5902) の2-プロパノール (JIS K 8839) 溶液とし、濃度は質量比ロジン約25%とする。 (3)Soldering temperature はんだ温度: 230±5 °C Immersing time 浸漬時間: 3±0.5 s Flux immersing time shall be 5~10 s in normal room temperature. ただし、フラックス浸漬は常温で5~10秒とする。 (4)Immersion depth: Immersion depth shall be at copper plating portion for P.C.B. terminal after mounting. 浸漬深さ Thickness of P.C.B.: 1.6 mm Immersion depth shall be at wiring portion of lead wire for lead wire terminal. プリント基板用端子はプリント基板(t1.6)実装後、銅箔面まで浸漬。リード配線用端子は端子のリード線から根部を浸漬。	More than <u>95</u> % of immersed part shall be covered with solder. If frame is made of tin-plated, cutting section shall not be applied. 浸漬した部分の <u>95</u> %以上がはんだで覆われていること。 ただし、よりきつな場合は、切断面は適用しない。	

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Items 項目		Test conditions 試験条件		Criteria 判定基準
7.2	Dry heat 耐熱性	After testing at 85±2°C for 500 h, the switch shall be allowed to stand under normal room temperature and humidity conditions for 1 h, and then measurement shall be made within 1 h. 85±2°Cにて500時間試験後、常温常湿中に1時間放置し1時間以内に測定する。		Contact resistance 接触抵抗 (Item 4.1): 60 mΩ MAX Insulation resistance 絶縁抵抗 (Item 4.2): 10 MΩ MIN Voltage proof 耐電圧 (Item 4.3): Apply 250 V AC for 1 min. No dielectric breakdown shall occur. 絶縁破壊のないこと。 Operating force 作動力 (Item 5.1): Within ±1% of specified value. 規格値の ±1% 以内。 No abnormalities shall be recognized in appearance and construction. 外観、構造に異常がないこと。
7.3	Damp heat 耐湿性	After testing at 60±2°C and 90~95%RH for 500 h, the switch shall be allowed to stand under normal room temperature and humidity conditions for 1 h, and then measurement shall be made within 1 h. Water drops shall be removed. 60±2°C、相対湿度90~95%にて500時間試験後、常温常湿中に1時間放置し1時間以内に測定する。ただし、水滴は取り除く。		Contact resistance 接触抵抗 (Item 4.1): 60 mΩ MAX Insulation resistance 絶縁抵抗 (Item 4.2): 10 MΩ MIN Voltage proof 耐電圧 (Item 4.3): Apply 250 V AC for 1 min. No dielectric breakdown shall occur. 絶縁破壊のないこと。 Operating force 作動力 (Item 5.1): Within ±1% of specified value. 規格値の ±1% 以内。 No abnormalities shall be recognized in appearance and construction. 外観、構造に異常がないこと。
7.4	Salt mist 塩水噴霧	Switch shall be checked after following test. 下記条件で試験を行い、試験後確認する。 (1) Temperature 温度: 35±2°C (2) Salt solution 塩水濃度: 5±1% (Solids by mass) (質量比) (3) Duration 試験時間: 24 ±1 h After the test, salt deposit shall be removed in running water. 試験後試料に付着した塩堆積物を流水で落とす。		No remarkable corrosion shall be recognized in metal part. 金属上有著な腐食のきびがないこと。
7.5	Change of temperature 温度サイクル	After 25 cycles of following conditions, the switch shall be allowed to stand under normal room temperature and humidity conditions for 1 h, and measurement shall be made within 1 h after that. Water drops shall be removed. 下記条件で25サイクル試験後、常温常湿中に1時間放置し1時間以内に測定する。 ただし、水滴は取り除く。 		Contact resistance 接触抵抗 (Item 4.1): 60 mΩ MAX Insulation resistance 絶縁抵抗 (Item 4.2): 10 MΩ MIN Voltage proof 耐電圧 (Item 4.3): Apply 250 V AC for 1 min. No dielectric breakdown shall occur. 絶縁破壊のないこと。 Operating force 作動力 (Item 5.1): Within ±1% of specified value. 規格値の ±1% 以内。 No abnormalities shall be recognized in appearance and construction. 外観、構造に異常がないこと。
7.6	Damp heat with load (Resistance to silver migration) 耐湿負荷 (耐銀マイグレーション特性)	DC voltage 1.5 times as much as rated voltage shall be applied continuously between adjacent terminals at 60±2°C and 90~95%RH. After 500 h testing, switch shall be allowed to stand under normal room temperature and humidity conditions for 1 h, and measurement shall be made within 1 h after that. Water drops shall be removed. 60±2°C、相対湿度90~95%にて隣接端子間に定格電圧の1.5倍の直流電圧を連続印加し、500時間試験後、常温常湿中に1時間放置し1時間以内に測定する。 ただし、水滴は取り除く。		Insulation resistance 絶縁抵抗 (50V DC): 10 MΩ MIN Voltage proof 耐電圧: Apply 100V AC for 1 min. No dielectric breakdown shall occur. AC 100V、1分間印加。 絶縁破壊のないこと。

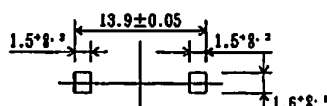
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△ シュウドウシの接点圧力は、0.35N以上とする。

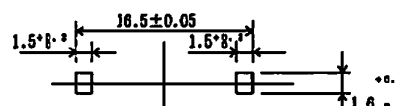
Precaution in use ご使用上の注意

- Note that if the load is applied to the terminals during soldering they might suffer deformation and defects in electrical performance.
端子をはんだ付けされる場合、端子に荷重が加わりますと条件によりガタ、変形及び電気的特性劣化のおそれがありますのでご注意ください。
- Use of water-soluble soldering flux shall be avoided because it may cause corrosion of the switch.
はんだ付けの際、水溶性フラックスはスイッチを腐食させるおそれがありますので使用はお避け下さい。
- Refer to following dimensions for P.C.B. mounting holes when snap-in type is used.
(Refer to each product drawing for the dimensions of terminal holes.)
スナッピンタイプの枠を使用される場合の基板取付穴は下記寸法を参考にして下さい。(各端子の寸法は製品図を参考にして下さい。)

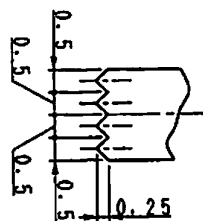
2-position type (2接点タイプ)



3-position type (3接点タイプ)



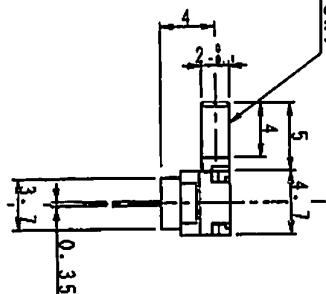
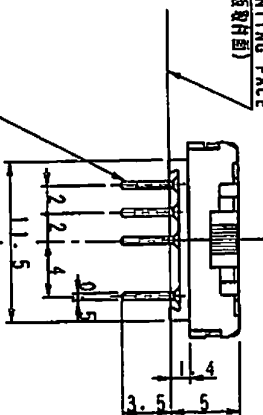
- Caution in automatic soldering (Applied only to horizontal knob type)
Please care ingress of flux from knob portion, although protected against that from terminals.
Please consult us when a specific knob is used, which may cause ingress of flux.
オートディップに関して(つまみ突出しタイプのみに適用)
端子部のフラックス浸入はありませんが、つまみ部は低い位置にありますので、フラックスの飛散、流入等にご注意下さい。
つまみ形状が特殊な場合は、フラックス浸入が考えられますので、別途ご相談下さい。
- Designing printed pattern and parts layout shall be considered because the characteristics may change due to warp of P.C.B.
基板のソリによって特性が変化する場合がありますので、パターン設計・レイアウトについては十分考慮願います。
- When soldering, slide should be at the P position in product drawing.
はんだ付けの際、スライドのつまみを製品図と同一位置に移動させてはんだ付け下さい。
- Unstable contact may occur if the switch is used lower than DC 1V or 10mA. Please consult us for special applications.
電圧DC1V以下または電流10mA以下で使用しますと、接触不安定となることがあります。このような用途に使用される場合は別途ご相談下さい。
- This switch is designed and manufactured to be used for general electronic equipment such as audio-visual equipment, home electronics, information and communication related equipment. If you intend to use the switch for sophisticated equipment requiring more safety and reliability, such as life support, space and aviation, disaster prevention or security related equipment, please feel free to contact us about suitability.
本製品はオーディオ機器、映像機器、家電機器、情報機器、通信機器などの一般電子機器用に設計・製造したものです。生命維持装置、宇宙・航空機器、防災・防犯機器などの高度の安全性や信頼性が求められる用途に使用される場合は、貴社にて適合性の確認を頂くか、当社へご相談下さい。
- In case of storing this switch for a long period (longer than six months after delivery), it must be sealed in a plastic bag and stored in a cool and dark place in order to prevent the solderability of the terminal surface from deteriorating due to film to be formed on it.
長期保管の場合(納入後6ヶ月程度以上)は、端子表面の皮膜形成によるはんだ付け性の劣化等を防ぐため、製品をビニル袋等で密封し、直射日光の当たらない冷暗所に保管してください。



背	段
BACK	GROUND

ASI 単位化

TERMINA
(タンス番号)



(A方向より見る)

CIRCUIT DIAGRAM
(回路圖)

The diagram shows a horizontal bar with four numbered points (1, 2, 3, 4) connected to it. Point 1 is on the left, point 2 is on the left side of the bar, point 3 is on the right side of the bar, and point 4 is on the right. Arrows indicate the direction of flow from 1 to 2, 2 to 3, and 3 to 4.

2. OPERATING FORCE: B-A.C 341.5N ~~508.534N~~
(努力) A.C-B 211N ~~204.10201N~~ Δ

MEASURE AT THE BOTTOM OF KNOB
(測ツテニ點に對ス)

NOTES 1. CONTACTS OF CHANGEVER TIMING: NOT SPECIFIED
(注記) (仕様の明瞭タイミング: 規定なし)

[illegible]