

Customer : ROXBURGH ELECTRONICS LIMITED

No. SS-96-1114

Date : Jan. 31, 1996

Attention :

Your ref. No :

Your Part. No : 22 6069

SPECIFICATIONS

ALPS

MODEL RS60N11

F.E.C. No: 642-940

Sample No. : G0446326M

RECEIPT STATUS
RECEIVED
By. Date

Signature

Name

Title

ALPS ELECTRIC CO., LTD.

HEAD OFFICE
1-7, YUKIGAYA-OHTSUKA-CHO.
OHTA-KU, TOKYO 145 JAPAN

DSG'D H. Kimura

APP'D Y. Yoshitaka

ENG. DEPT. DIVISION

Sales

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RS60N119 POTENTIOMETERS.

2 CONTENTS OF THIS SPECIFICATIONS.

4S602R-001
4S0001-200
4S0001-202M
S602RN901

3. MARKING

-MARKING ON ALL UNITS
DATE CODE, RESIST. VALUE, TAPER, TRADE MARK

4. REMARKS

- NOTES

-Marking => in specifications shows standard and condition for application.

1. Environment 一般事項
 1.1 Operating temperature range 使用温度範囲 -10-60°C
 1.2 Storage temperature range 保存温度範囲 -30-70°C

1.3 Test conditions 試験条件

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and test is as follows.

Ambient temperature: 5°C to 35°C
 Relative humidity: 45% to 85%
 Air pressure: 850mbar to 1060 mbar.

If there is any doubt about the results, measurements shall be made within the following limits.

Ambient temperature: 20±2°C
 Relative humidity: 60 to 70%
 Air pressure: 850mbar to 1060mbar.

2. Appearance 外觀

The potentiometer shall be well done and not have any excessive rust, crack, split, poor plating and discolor in any portion.
 全部の仕上げは良好で機械上有害なシミ、キズ、ワレ、錆、割れ、及び腐蝕等と認めらるべきでない。

3. Electrical characteristics 電気的特性

Item	Conditions	Specifications
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3.1	Nominal total resistance and tolerance 公称全抵抗値の許容差	レバーを端子1又は、3の端子に合せ、抵抗値の端子1-3間	200 250 500 ±20%
		Measurement shall be made by the resistance between terminal 1 and 3 with lever set at terminal 1 or 3.	5 10 20 50 100 (KΩ)

3.2	Power rating 定格電力	Power rating is based on continuous full load operation at the maximum voltage between terminals 1 and 3. Power rating vs. ambient temperature shall be denoted on the following graph.	端子1と3の間に連続負荷がかかる最大電力。周囲温度に対する電力降下曲線は右図とする。																
		<table border="1"> <tr> <th>Power rating (W)</th> <th>Ambient temperature (°C)</th> </tr> <tr> <td>0.2</td> <td>0</td> </tr> <tr> <td>0.1</td> <td>20</td> </tr> <tr> <td>0.1</td> <td>40</td> </tr> <tr> <td>0.1</td> <td>60</td> </tr> <tr> <td>0.1</td> <td>80</td> </tr> <tr> <td>0.1</td> <td>100</td> </tr> </table>	Power rating (W)	Ambient temperature (°C)	0.2	0	0.1	20	0.1	40	0.1	60	0.1	80	0.1	100	<table border="1"> <tr> <th>A, B (VOL)</th> <th>C, D, K</th> </tr> <tr> <td>B</td> <td>C, D, K</td> </tr> </table>	A, B (VOL)	C, D, K
Power rating (W)	Ambient temperature (°C)																		
0.2	0																		
0.1	20																		
0.1	40																		
0.1	60																		
0.1	80																		
0.1	100																		
A, B (VOL)	C, D, K																		
B	C, D, K																		

3.3	Rated voltage 定格電圧	Rated voltage $E = \sqrt{PR}$ (V) 定格電圧	<table border="1"> <tr> <th>A, B (VOL)</th> <th>C, D, K</th> </tr> <tr> <td>B</td> <td>C, D, K</td> </tr> </table>	A, B (VOL)	C, D, K	B	C, D, K
		A, B (VOL)	C, D, K				
B	C, D, K						
When the rated voltage exceeds the maximum operating voltage, the maximum operating voltage shall be the rated voltage. 最大使用電圧が最高使用電圧を越える場合は、この最高使用電圧を定格電圧とする。	<table border="1"> <tr> <th>A, B (VOL)</th> <th>C, D, K</th> </tr> <tr> <td>A, C, 200V</td> <td>A, C, 150V</td> </tr> <tr> <td>D, C, 10V</td> <td>D, C, 10V</td> </tr> </table>	A, B (VOL)	C, D, K	A, C, 200V	A, C, 150V	D, C, 10V	D, C, 10V
A, B (VOL)	C, D, K						
A, C, 200V	A, C, 150V						
D, C, 10V	D, C, 10V						

3.4	Resistance law (Taper) 抵抗変化特性	Resistance law shall be made by the resistance law method. 電圧法にて測定	Resistance law 抵抗変化特性		
		Measurement shall be made at the position of right diagram from the edge at the side of terminal 1. When based on terminal 3, from the edge at the side of terminal 3.	<table border="1"> <tr> <th>A, B, C</th> <th>D, K</th> </tr> <tr> <td>A, B, C</td> <td>D, K</td> </tr> </table>	A, B, C	D, K
A, B, C	D, K				
A, B, C	D, K				

3.5	Output voltage between terminals 1 and 2 (dB) 1-2端子間出力電圧 (dB)	20log $\frac{1-2 \text{端子間出力電圧}}{1-3 \text{端子間印加電圧}} \times 100 (\%)$
3.6	Output voltage between terminals 1 and 3 (dB) 1-3端子間印加電圧 (dB)	20log $\frac{1-3 \text{端子間出力電圧}}{1-3 \text{端子間印加電圧}} \times 100 (\%)$

SYMB.	DATE	APPD.	CHKD.	DSCD.
△	1971.10.20	Y	Y	Y

CLASS.NO.

TITLE

MASTER TYPE POTENTIOMETER(SLIDE)

Item 項目	Conditions 条件	Specifications 規格								
3.5 Attenuation and insertion loss 最大減衰量と挿入損失	<p>The attenuation and insertion loss at each end of lever travel shall be measured. しゅう動子を移動距離の各終端に置いたとき 最大減衰量、挿入損失を測定する。</p> <p>The voltage of 2 V_{r.m.s.} to 15 V_{r.m.s.} shall be applied between terminal 1 and 3 by measuring frequency at 1 kHz. The output voltage shall be measured between terminals 1 and 2 and between terminals 2 and 3. If there is not any doubt about the results, DC voltage shall be used as the test voltage. 端子1-3間に1kHzで2-15V (正弦波実効値)の電圧を加え、端子1-2間、端子2-3間の出力電圧を測定する。なお、判定に疑義が生じなければ、試験電圧として直流を用いてもよい。</p> <p>電圧計の入力インピーダンスは、10kΩ以上 Input impedance of the voltmeter: 10kΩ or more</p>	<p>Nominal total resistance 公称全抵抗値 (kΩ)</p> <table border="1"> <tr> <td>5 ≤ Ra ≤ 10</td> <td>70</td> </tr> <tr> <td>10 < Ra ≤ 50</td> <td>80</td> </tr> <tr> <td>50 < Ra ≤ 100</td> <td>90</td> </tr> <tr> <td>100 < Ra ≤ 500</td> <td>100</td> </tr> </table> <p>Attenuation 最大減衰量 (dB以上)</p>	5 ≤ Ra ≤ 10	70	10 < Ra ≤ 50	80	50 < Ra ≤ 100	90	100 < Ra ≤ 500	100
		5 ≤ Ra ≤ 10	70							
		10 < Ra ≤ 50	80							
		50 < Ra ≤ 100	90							
100 < Ra ≤ 500	100									
3.6 Noise しゅう動雑音	<p>DC 20V, when the rated voltage is 20V or less, its rated voltage shall be applied to the terminals between 1 and 3. And then the noise shall be measured by the specified speed. For other procedures, refer to IEC Pub. 393-1-B. Test Method B. Traveling speed: 20mm/sec</p> <p>端子1-3間に直流電圧20V(定格が20V以下の時は、その電圧)を加え、レバーを20mm/秒の速さで移動させ、このときに発生する雑音電圧を測定する。その他 JIS C 5261A法による。</p>	<p>Nominal total resistance 公称全抵抗値 (kΩ)</p> <table border="1"> <tr> <td>5 ≤ Ra ≤ 50</td> <td>47</td> </tr> <tr> <td>50 < Ra ≤ 500</td> <td>85</td> </tr> </table> <p>(mVP-P) 未測</p>	5 ≤ Ra ≤ 50	47	50 < Ra ≤ 500	85				
		5 ≤ Ra ≤ 50	47							
50 < Ra ≤ 500	85									
3.7 Insulation resistance 絶縁抵抗	<p>A voltage of 250V DC shall be applied for 1 min, after which measurement shall be made. D.C. 250Vの電圧を印加して測定。(1分間)</p>	<p>Between individual terminals and frame/lever Between adjacent terminals: 端子-レバー間 端子-枠間 隣接した抵抗素子の端子間</p> <p>100MΩ or more 以上</p>								
3.8 Dielectric strength 耐電圧	<p>Trip current: 2mA Measuring frequency: 50/60Hz 250V AC for 1 min. A.C. 250V_{r.m.s.} 1分間。 感度電流 2mA (周波数50/60Hz)</p>	<p>Between individual terminals and frame/lever Between adjacent terminals</p> <p>Without damage to parts, arcing or breakdown etc. 損傷、アークおよび絶縁破壊を生じないこと。</p>								
3.9 Tracking error 運動誤差	<p>The voltage of 2 V_{r.m.s.} to 15 V_{r.m.s.} shall be applied between terminals 1 and 3 and between terminals 1 to 3' by measuring frequency at 1 kHz. The output voltage shall be measured between terminals 1 and 2 and between terminals 1 and 2' (for the C and RD taper, the measurement shall be made between terminals 2 and 3 and between terminals 2 and 3') units the first of these shall be the standard one. If there is not any doubt about the results, DC voltage shall be used as the test voltage. 端子1-3間、端子1-3'間にそれぞれ1kHzで2-15V(正弦波実効値)の電圧を加え、前段を基準として端子1-2間、端子1-2'間(3端子基準の場合は、端子2-3間、端子2-3'間)の出力電圧を測定する。なお、判定に疑義が生じなければ、試験電圧として直流を用いてもよい。</p> <p>電圧計の入力インピーダンスは、10kΩ以上 Input impedance of the voltmeter: 10kΩ or more</p>	<p>At 50% of lever travel 移動距離の50%の位置</p> <table border="1"> <tr> <td>dB - dB</td> <td>± dB</td> </tr> <tr> <td>dB - dB</td> <td>± dB</td> </tr> <tr> <td>dB - dB</td> <td>± dB</td> </tr> </table>	dB - dB	± dB	dB - dB	± dB	dB - dB	± dB		
		dB - dB	± dB							
		dB - dB	± dB							
		dB - dB	± dB							

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APPD.	CHKD.	DSCD.	TITLE
			SPECIFICATIONS
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DOCUMENT NO.			4S602R-001 (7/E)

5. Endurance, 耐久性能

Item	Conditions	Specifications
5.1 Endurance without load 無負荷L=0	The moving contact, without electrical load, shall be slid from one end stop to the other and returned to its original position expanded over 50% or more effective distance. The procedure constitutes 1 cycle. And the moving contact shall be subjected to 600 cycles per hour, a total of 3000 ± 200 cycles (5,000 ± 200 continuous cycles for 24 hours.) 無負荷にてL=0を600回/時の速で有効移動距離の90%以上を1日連続5000-6000回移動させよ。 合計30000	Change in total resistance is relative to the value before test: ±15% Noise: Refer to Note 1) Operating force: 10-20gf Clause (3) (4) shall be satisfied. 本抵抗値の変化は初期値の±15%以内 L=0移動量は7.0に上る。 作動力10-20gf その他は、(3項)(4項)を満足すること。
5.2 Cold	The potentiometer shall be stored at a temperature of -30±2°C for 96 hours in a thermostatic chamber. Then the potentiometer shall be taken out of the chamber and its surface moisture shall be removed. And then the potentiometer shall be subjected to standard atmospheric conditions for 1 hour, after which measurement shall be made. -30±2°Cの湿度槽中に96時間放置し、常温常温中に1時間放置し、表面水分を除去し、標準大気中に1時間測定する。 70±2°Cの水温は、取り除くものとする。	Change in total resistance is relative to the value before test: ±20% Noise: Refer to Note 1) Operating force: 10-20gf Clause (3) (4) shall be satisfied. 本抵抗値の変化は初期値の±20%以内 L=0移動量は7.0に上る。 作動力10-20gf その他は、(3項)(4項)を満足すること。
5.3 Dry heat	The potentiometer shall be stored at a temperature of 70±2°C for 240±8 hours in a thermostatic chamber. Then the potentiometer shall be maintained at standard atmospheric conditions for 1 hour, after which measurements shall be made. 70±2°Cの湿度槽中に240±8時間放置し、常温常温中に1時間放置し、表面水分を除去し、標準大気中に1時間測定する。 40±2°C相対湿度90-95%の湿度湿度槽中に96±4時間放置し、常温常温中に1時間放置し、表面水分を除去し、標準大気中に1時間測定する。 70±2°Cの水温は、取り除くものとする。	Change in total resistance is relative to the value before test: -5% Noise: Refer to Note 1) Operating force: 10-20gf Clause (3) (4) shall be satisfied. 本抵抗値の変化は初期値の+5--30%以内 L=0移動量は7.0に上る。 作動力10-20gf その他は、(3項)(4項)を満足すること。
5.4 Damp heat	The potentiometer shall be stored at a temperature of 40±2°C with relative humidity of 90% to 95% for 96±4 hours in a thermostatic chamber. And its surface moisture shall be removed. And then the potentiometer shall be subjected to standard atmospheric conditions for 1 hour, after which measurement shall be made. 40±2°C相対湿度90-95%の湿度湿度槽中に96±4時間放置し、常温常温中に1時間放置し、表面水分を除去し、標準大気中に1時間測定する。 70±2°Cの水温は、取り除くものとする。	Change in total resistance is relative to the value before test: ±20% Noise: Refer to Note 1) Operating force: 10-20gf Clause (3) (4) shall be satisfied. 本抵抗値の変化は初期値の±20%以内 L=0移動量は7.0に上る。 作動力10-20gf その他は、(3項)(4項)を満足すること。
5.5 Change of temperature 温度変化	The potentiometer shall be subjected to 5 successive change of temperature cycles, each as shown in table below. Then its surface moisture shall be removed. And then the potentiometer shall be subjected to standard atmospheric conditions for 1 hour, after which measurements shall be made. 下記条件で5回連続し、常温常温中に1時間放置し、表面水分を除去し、標準大気中に1時間測定する。 70±2°C 30 Min. 30% 2 Standard atmospheric conditions 湿度 湿度槽 10-15 Min. 10-15% 70±2°C 30 Min. 30% 1 Standard atmospheric conditions 湿度 湿度槽 10-15 Min. 10-15% Temperature 温度槽 湿度槽	Change in total resistance is relative to the value before test: ±20% Noise: Refer to Note 1) Operating force: 10-20gf Clause (3) (4) shall be satisfied. 本抵抗値の変化は初期値の±20%以内 L=0移動量は7.0に上る。 作動力10-20gf その他は、(3項)(4項)を満足すること。

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SYMB. DATE	APPD.	CHKD.	DSCD.
APPD.	CHKD.	DSCD.	
TITLE			
SPECIFICATIONS			
DOCUMENT NO. 4S602R-001 (4/6)			

CLASS.NO. _____

TITLE
MASTER TYPE POTENTIOMETER (SLIDE)

Note 1) For noise specification after the test, refer to the list below.

注記 1) 試験後のしゅう動雑音規格は、下表による。

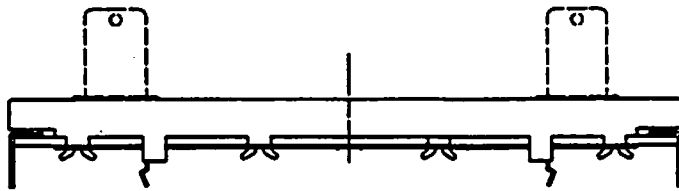
Nominal total resistance 公称全抵抗値 (KΩ) $5 \leq R_a \leq 50$	Nominal total resistance 公称全抵抗値 (KΩ) $50 < R_a \leq 500$
Less than <u>150mVP-P</u> 未満	Less than <u>300mVP-P</u> 未満

2) Measurement of the endurance characteristic shall be made after 5 cycles' slide of moving contact

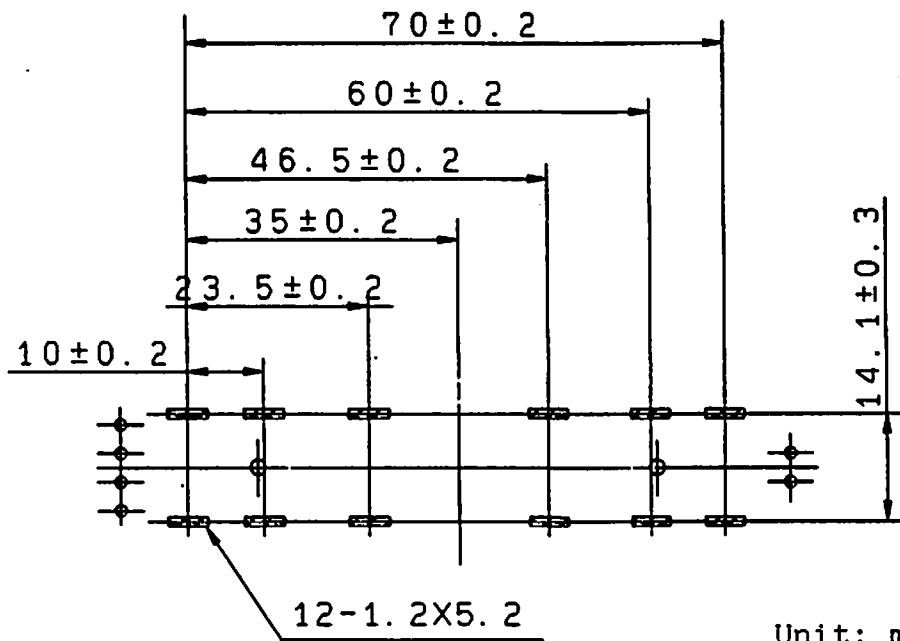
2) 耐久性能後の測定は、レバーを5サイクルしゅう動後とする。

△ 3) Prohibition of patten wiring for oblique line department.

3) 斜線部は、パターン配線を禁止します。



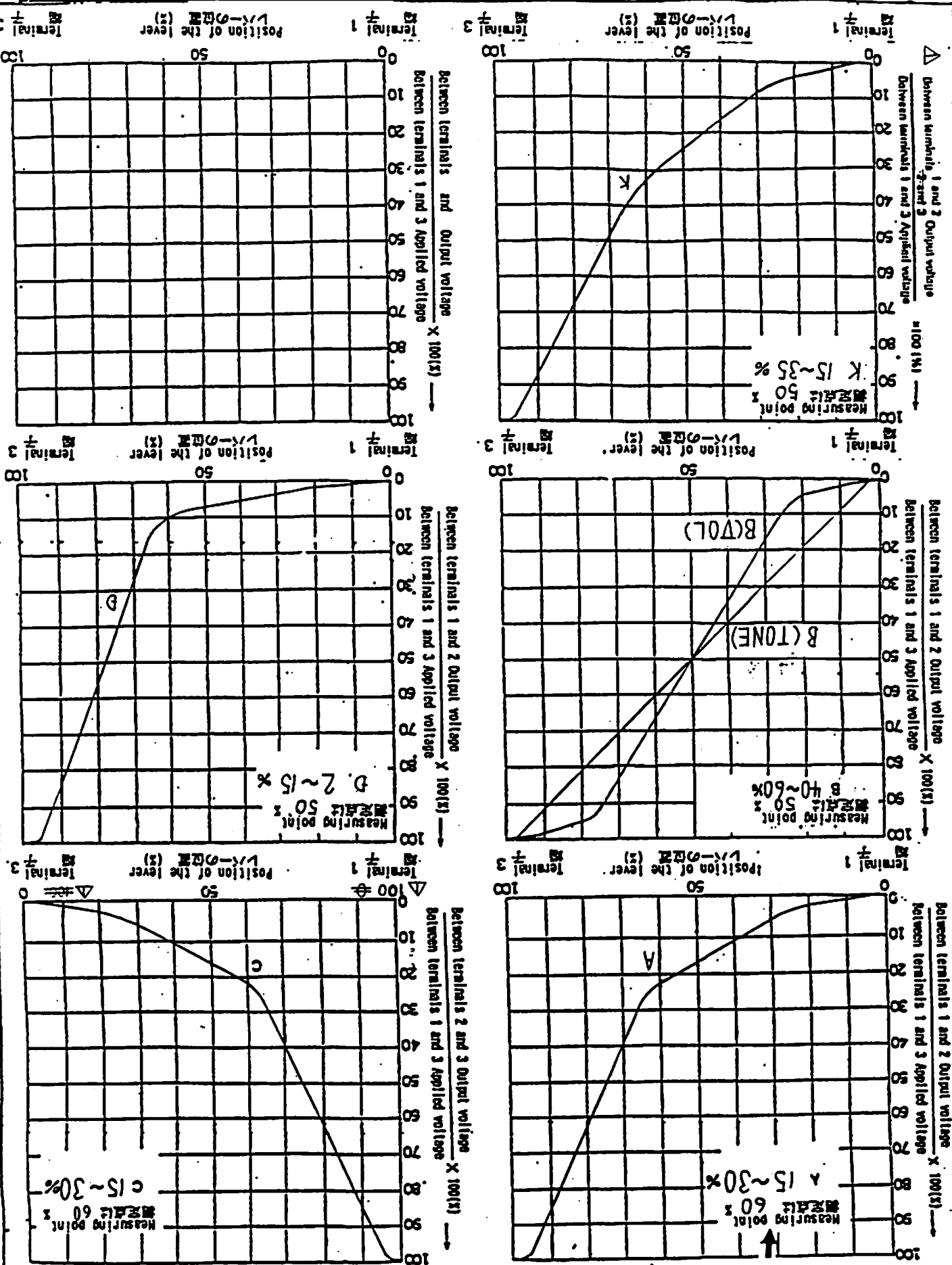
Viewed from mounting side
 挿入側より



Unit: mm

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		APPD.	CHKD.	DSGD.	TITLE		
		<i>Apr. 17 '92</i>		<i>Apr. 17 '92</i>	SPECIFICATIONS		
		DATE	APPD.	CHKD.	DOCUMENT NO.		
△ 1		<i>Feb. 10 '92</i>	<i>Y.Y</i>	<i>G.A</i>	4S602R-001 (5/6)		
SYMB.	DATE	APPD.	CHKD.	DSGD.			
				<i>G. Ahe</i>	<i>K. Harisawa</i>		

RESISTANCE LAW (TAPER) 抵抗変化特性規格



SYSA	DATE	APPD	CHSD	DSCD
3	1991.9.6	Y		
TITLE				
SPECIFICATIONS				
DOCUMENT NO. 4S602R-001				
APPD. CHSD. DSCD. 16.9.91				
M. Iwano / H. Kimura				

Terminal 1
Terminal 2
Terminal 3
Position of the lever (L/A-position) (%)

Terminal 1
Terminal 2
Terminal 3
Position of the lever (L/A-position) (%)

Terminal 1
Terminal 2
Terminal 3
Position of the lever (L/A-position) (%)

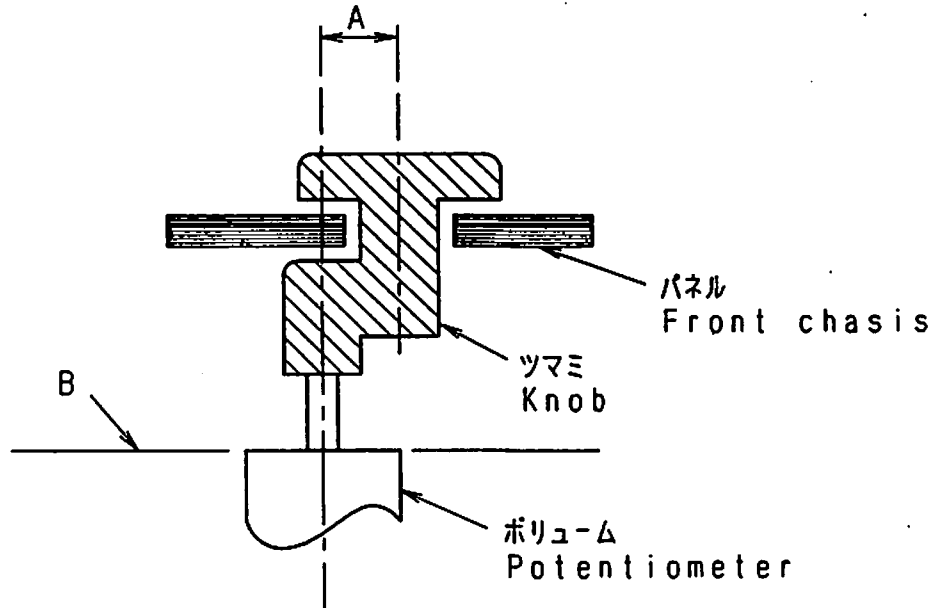
Terminal 1
Terminal 2
Terminal 3
Position of the lever (L/A-position) (%)

Terminal 1
Terminal 2
Terminal 3
Position of the lever (L/A-position) (%)

ご使用上の注意
PRECAUTION IN USE

1. 偏心ツマミをご使用になる場合
 レハ^{レバ}の中心より離れたところを作用点としてご使用になる場合、可能な限り
 下図A寸法を短くしてご使用下さい。
 If it will be used the operating point away
 from the center line of the lever, it should
 be shorter as possible.

2. レハ^{レバ}長さについて
 レハ^{レバ}長さについては、ツマミを含めて、下図B面より極力短いものを
 ご使用願います。レハ^{レバ}長さについては、作用点までの距離が短いほど
 しゅう動感感が良好となり、長いほど好ましくない感感になります。
 About the length of lever
 If conditions permit, it is advisable to use
 the shortest possible lever.
 The longer the length up to operating point,
 the more unfavorable slide feeling
 will be given.



3. レハ^{レバ}の駆動に関しては上記内容を考慮の上、セット実装を行い
 あらかじめ異常のないことをご確認願います。
 Regarding the operation of the lever, please
 consider the above mentioned, and make
 sure nothing is wrong with the operation
 under installing in your appliance
 that you plan to use our products actually.

4. ツマミ挿入及びレハ^{レバ}操作は、ホ^ポリウムマウント基板に
 ソリ(曲がり)のない状態で行って下さい。
 Knob assembly on the lever and functioning
 the lever to be performed under the condition
 of P. C. B. without warp.

					ALPS ALPS ELECTRIC CO., LTD.				
					APPD.	CHKD.	DSGD.	TITLE	スライト ^ホ リウム 仕様書
					PDI-ENGI '95.7.24 YOSHIOKA	PDI-ENGI '95.7.24 KIMURA	PDI-ENGI '95.7.24 Y.SAITOH	SPECIFICATIONS	
ORIGINAL	91-7-3	Y·Y	K·N	S·A				DOCUMENT NO.	4S0001-200
SYMB	DATE	APPD	CHKD	DSGD					

FOLLOW THE NEXT CONDITIONS FOR SOLDERING

1. Solder

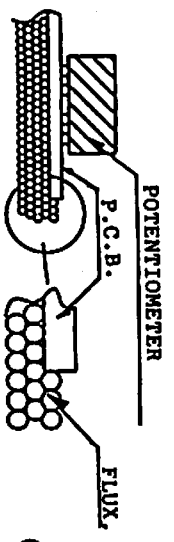
63 % Sn solder specified in JIS Z3282.

2. Board in Use

Single-face copper laid laminate board.
Plate thickness (t) = 1.6 mm

3. In the Case of Dip Soldering

- (1) State of potentiometer
Position a lever in the vicinity of center.
- (2) Specific Gravity of Flux
0.83±0.01 (foaming type)
- (3) Height of Flux face
A level of the upper face of flux for reaching the position at a half of the plate thickness of printed board. (FIG.1)
Further, no flow of flux invading on the surface of printed board on the side of installing potentiometer is allowed.



(FIG. 1)

(4) Preheat Condition

100°C MAX., within 1 minute
(Temperature on the side of installing printed board is designated.)

(5) Soldering Condition

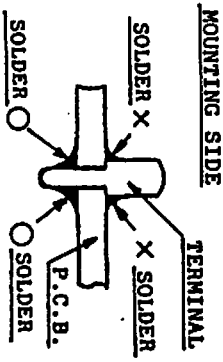
Solder temperature; 260°C MAX.
Soldering period ; within 5 seconds
Time of soldering ; only one time is permitted

4. In the Case of Manual Soldering

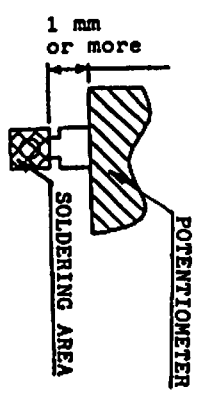
Solder temperature : 300°C MAX.
Soldering period ; within 3 seconds
Time of soldering ; only one time is permitted

5. Matters to Be Noted

- (1) Do not add any stress on terminals in the case of soldering.
For instance, forced movement of potentiometer with terminals being heated may probably deteriorate the electric features due to generation of looseness in connection between resistant board and terminals.
- (2) Use caution to soldering process so as to prevent solder from rising up to the surface of printed board on the side of installing potentiometer, because defective contact may take place in terminal connecting part due to soldering heat (FIG. 2)
- (3) In the case of lead wiring, solder it so that a gap of 1 mm or more may be reserved between the potentiometer body and soldering part. (FIG. 3)
- (4) The grade of influence of soldering exerted on the potentiometer depends upon the size of a printed board, installing position of the potentiometer, and the size of a solder bath etc. Therefore, make sure, in advance, of no abnormal state under the conditions of soldering to be carried out at present.



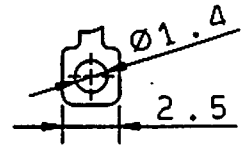
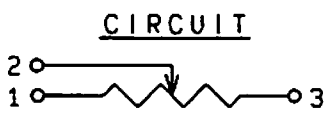
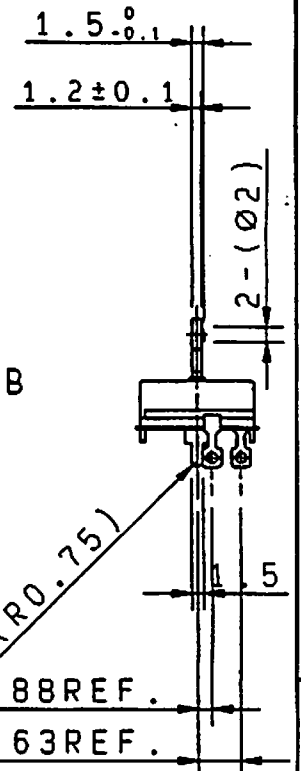
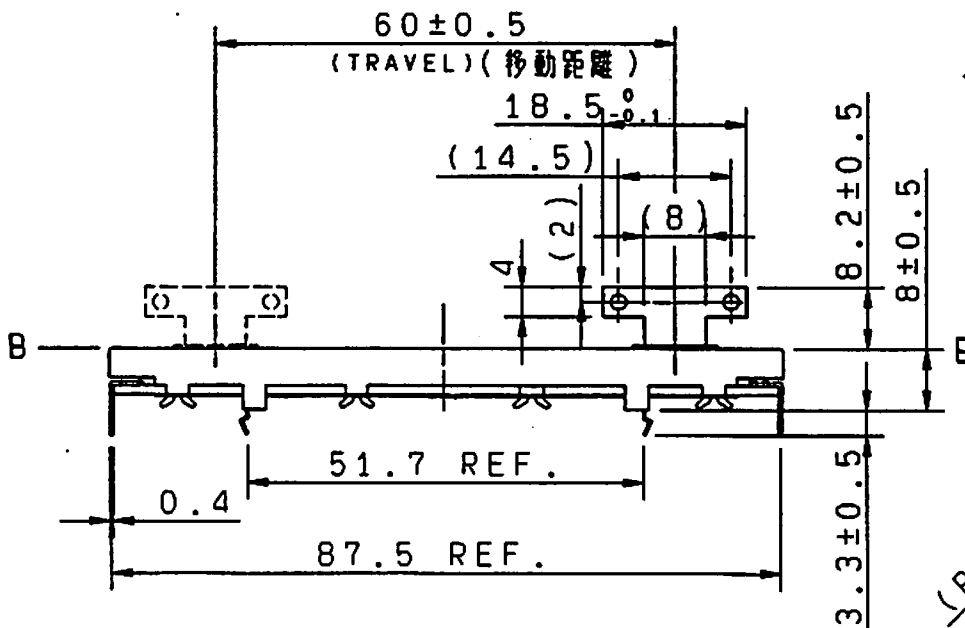
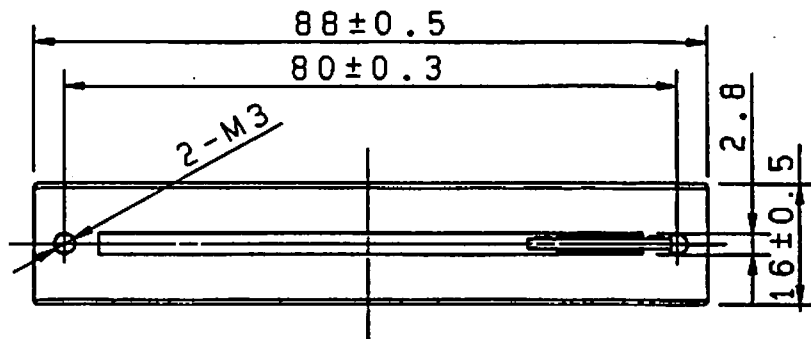
(FIG. 2)



(FIG. 3)

SYNG	DATE	APPR	CHKD	DSGD	APPD.	CHGD.	DSGD.	TITLE
					Sep. 9 '91	Sep. 9 '91	Sep. 6 '91	SLIDE POTENTIOMETER
								DOCUMENT NO
								450001 - 202M

ALPS ELECTRIC CO., LTD.



TERMINAL DETAIL
(端子寸法図)

指定なき部分の許容差 TOLERANCES UNLESS OTHERWISE SPEC	
$L \leq 10$	± 0.3
$10 < L \leq 100$	± 0.5
$100 < L$	± 0.8
角度 ANGULAR DIMENSION	$\pm 5^\circ$

- NOTE 1. MOUNTING SCREW THREAD LENGTH IS CHASSIS THICKNESS+3mm MAX.
2. Within 30mm from B included knob's height.
- 注記 1. 取付ネジの首下長さはシャーシ板厚+3mm以下とする。
2. レバーの長さは、ツマミも含めて30mm以内にてご使用願います。

PART NO.	NAME	MATERIAL NAME / CODE	FINISH
		ALPS ALPS ELECTRIC CO., LTD.	
		DSGD.セツキ3 K. NARISAWA 91-01-22	SCALE 1 : 1
		CHKO. Y. Watanabe '91-01-23	FIGURE 60mm SLIDE POTENTIOMETER SINGLE UNIT 82274F013-6
ORIGINAL	90-10-30	S. A Y. M. K. N	UNIT mm
SYMB	DATE	APPD G. Ahe '91-01-23	RS60N1

◎-8.2L
リード
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[RK09K1110B1V](#)