

Customer: ALPS ELECTRIC EUROPA GmbH

No. F3852683M

Date: Nov. 16, 1994

Attention:

Your ref. No.:

Your Part. No.: STRS60N07

SPECIFICATIONS

STÜCK ANGEBOTSMUSTER BEIGEFÜGT ALPS :

PIECES QUOTATION SAMPLE(S) ATTACHED

MODEL RS60N1211
(10KA X 2)

Spec. No. :

Sample No. : F3852683M

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 Jd. Fujita

APP'D H. Ito
ENG. DEPT. DIVISION

Sales

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RS60N1211 POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

4S602R-009
4S0001-200M
4S0001-202M
S602RG101

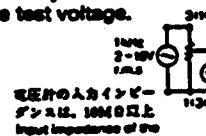
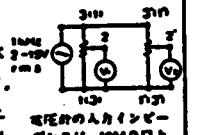
3. MARKING

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

4. REMARKS

• NOTES

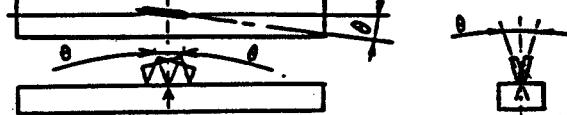
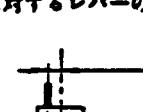
• Marking ⇒ in specifications shows standard and condition for application.

Item 項目	Conditions 条件	Specifications 規格									
3.5 Attenuation and insertion loss 最大減衰量と 押入損失	<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端に置いたとき 最大減衰量、 押入損失を測定する。</p> <p>The voltage of 2 Vr.m.s. to 15 Vr.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よい。</p> 	<p>Nominal total resistance 公称全抵抗 ($k\Omega$)</p> <table border="1"> <tr> <td>$5 \leq Ra \leq 10$</td> <td>70</td> </tr> <tr> <td>$10 < Ra \leq 50$</td> <td>80</td> </tr> <tr> <td>$50 < Ra \leq 100$</td> <td>90</td> </tr> <tr> <td>$100 < Ra \leq 500$</td> <td>100</td> </tr> </table> <p>Attenuation 過大減衰量 (dB or more) dB以上</p> <p>Insertion loss 押入損失 within 0.1 dB以内</p>	$5 \leq Ra \leq 10$	70	$10 < Ra \leq 50$	80	$50 < Ra \leq 100$	90	$100 < Ra \leq 500$	100	
$5 \leq Ra \leq 10$	70										
$10 < Ra \leq 50$	80										
$50 < Ra \leq 100$	90										
$100 < Ra \leq 500$	100										
3.6 Noise しゅう動聲音	<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. 303-1-6, Test Method B. Traveling speed: 20mm/sec 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 ($k\Omega$)</p> <table border="1"> <tr> <td>$5 \leq Ra \leq 50$</td> <td>47</td> </tr> <tr> <td>$50 < Ra \leq 500$</td> <td>85</td> </tr> </table> <p>(mVP-P) 未測</p>	$5 \leq Ra \leq 50$	47	$50 < Ra \leq 500$	85					
$5 \leq Ra \leq 50$	47										
$50 < Ra \leq 500$	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</p> <p>端子-レバー間 端子-仲間 独立した抵抗素子の端子間</p>	100MΩ 以上								
3.8 Dielectric strength 耐電圧	<p>Trip current : 2mA Measuring frequency : 50/60Hz 250V AC for 1 min. A.C. 250Vr.m.s. 1分間。 感度電流 2 mA(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 相互偏差	<p>The voltage of 2 Vr.m.s. to 15 Vr.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'). 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1k Hz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 流を用いてよい。</p> 	<p>At 50% of lever travel 移動距離の 50%の位置</p> <table border="1"> <tr> <td>-40dB - 0 dB</td> <td>± 3 dB</td> </tr> <tr> <td>dB - dB</td> <td>± dB</td> </tr> <tr> <td>dB - dB</td> <td>± dB</td> </tr> </table>	-40dB - 0 dB	± 3 dB	dB - dB	± dB	dB - dB	± dB	± dB		
-40dB - 0 dB	± 3 dB										
dB - dB	± dB										
dB - dB	± dB										

..	..	..	..	ALPS	ALPS ELECTRIC CO., LTD.	
..	..	..	..	APPD.	CHKD.	DSCD.
..	..	..	..	Sep. 11 '91	Sep. 11 '91	Sep. 9 '91
..	..	..	..	<i>Y. Nakamura</i>	<i>S. Abe</i>	<i>M. Marumura</i>
SYMB.	DATE	APPD.	CHKD.	DSCD.	TITLE SPECIFICATIONS DOCUMENT NO.	
					4S602R-003 (2/6)	

CLASS.NO.	TITLE	MASTER TYPE POTENTIOMETER(SLIDE)
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4. Mechanical characteristics 機械的性能

	Item 項目	Conditions 条件	Specifications 規格
4. 1	Lever travel. レバー 移動距離		<u>60 ± 0.5 mm</u>
4. 2	Operating force 作動力	Travelling speed: 20mm/sec Operating position: Tip of the lever 移動速度は20mm/秒とする。 操作位置はレバー先端部とする。	<u>80 gf± 50 gf</u>
	Starting force 始動力	Travelling speed: 20mm/sec Operating position: Tip of the lever 移動速度は20mm/秒とする。 操作位置はレバー先端部とする。	Operating force +100gf max. 作動力+100gf以下
4. 3	Lever travel stop strength レバーの移動止強度	A static load of 10Kgf shall be applied at the point 5mm from top surface of the case for both ends in the direction of lever travel for 10sec. しゅう動距離の両末端において、棒上面より5mmの位置に10Kgfの静荷重を10秒間加える。	Without excessive play or poor contact 著しいガタ、および接触不良を生じないこと。
4. 4	Side thrust of the lever レバーの横押し強度	A static load of 2Kgf shall be applied at the point 5mm from top surface of the case in a direction perpendicular to the axial direction for 10sec., with the potentiometer mounted in assembly conditions. 本体をシャーシに固定し、棒上面より5mmの位置にレバー移動方向に対して直角方向に2Kgfの静荷重を10秒間加える。	Without deformation or breaks in the sliding part and contact part. 操作部および関連部品に変形、破損がないこと。
4. 5	Thrust and tensile lever レバーの押し引き強度	Thrust and tensile static load of 5 kgf shall be applied to the potentiometer in the lever direction for 10 sec. レバーの押し方向および引張り方向に5kgfの静荷重を10秒間加える。	Without damage such as bad Sliding and braking or play in the lever. Electrical characteristics shall be satisfied. レバーのガタ、および破損、しゅう動ムラ等がなく、電気的性能を満足すること。
4. 6	Displacement of lever レバーの横振れ	A torsion moment of 250gf·cm shall be applied at the lever in a direction perpendicular to the axial direction and then the displacement shall be measured. レバーに250gf·cmの曲げモーメントを移動方向に対して直角に加えレバー先端で測定する。	or less $2(2 \times L/25) \text{mm-P}$ 以下 L=Length of lever レバー長さ
4. 7	Lever inclination and torsion レバーの傾きおよびねじれ		θ shall be 2° or less. Return to the same position after torsion. θ は2度以下。また、ひねりを加えた時、元に戻ること。
4. 8	Distance from the center of the lever レバーのセンターズレ	After sliding lever as far as it will go in each direction, the distance from the center of the lever to the middle of the mounting screw hole shall be measured at the both ends. 取付けネジ穴中心に対するレバーのセンターからのずれを片側ごとに測定する. 	0.5mm or less on each end. 片側0.5mm以下。
4. 9	Resistance to soldering heat はんだ耐熱	Bit temperature : 350°C or less Application time of soldering iron : 5 sec or less 温度350°C以下。時間5秒以内。 ただし、端子に異常加圧のないこと。	Change in total resistance is relative to the value before test : 5% Without excessive looseness of terminals and failure contact. 全抵抗値の変化は初期値の±5%以内。 著しいガタ、接触不良を生じないこと。



ALPS ELECTRIC CO., LTD.

..	..	..	..	ALPS	ALPS ELECTRIC CO., LTD.	
..	..	..	..	APPD.	CHKD.	DSGD.
..	..	..	..	Sep. 12 '91 M. Yoshikawa	Sep. 11 '91 S. Aka	Sep. 9 '91 T. Nomura
..	..	..	..			TITLE
SYMB	DATE	APPD.	CHKD.	DSGD.	SPECIFICATIONS	
					DOCUMENT NO.	
					4S602R-003 (3/6)	

CLASS.NO.

TITLE

MASTER TYPE POTENTIOMETER(SLIDE)

5. Endurance 耐久性能

Item 項目	Conditions 条件	Specifications 規格
5.1 Endurance without load 無負荷しゅう 動寿命	The moving contact, without electrical load, shall be slided from one end stop to the other and returned to its original position extended over 90% or more effective distance. This procedure constitutes 1 cycle. And the moving contact shall be subjected to 600 cycles per hour, a total of 30000 ± 200 cycles (5,000 to 8,000 continuous cycles for 24 hours.) 無負荷にてレバーを 600 サイクル/時の速さで有効移動距離の 90%以上にわたり、1 日連続5000~8000サイクル、合計30000 ± 200サイクル移動させる。	Change in total resistance is relative to the value before test: ±15% Noise: Refer to Note 1) Operating force: 10~200gf Clause (3), (4) shall be satisfied. 全抵抗値の変化は 初期値の±15%以内 しゅう動聲音は 注記 1) による。 作動力 10~200gf その他は、(3項) (4項) を 満足すること。
5.2 Cold 耐寒性	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 の恒温槽中にて 96時間放置し、常温常温中に 1 時間 放置後 1 時間以内に測定する。 ただし水滴は、取り除くものとする。	Change in total resistance is relative to the value before test: ±20% Clause (3), (4) shall be satisfied. 全抵抗値の変化は 初期値の±20%以内 その他は、(3項) (4項) を 満足すること。
5.3 Dry heat 耐熱性	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 の恒温槽中にて 240 ± 8 時間 放置し、常温常温中に 1 時間放置後 1 時間以内に測定する。	Change in total resistance is relative to the value before test: +5 Noise: Refer to Note 1) Operating force: 10~200gf Clause (3), (4) shall be satisfied. 全抵抗値の変化は 初期値の +5 -- 30% 以内 しゅう動聲音は 注記 1) による。 作動力 10~200gf その他は、(3項) (4項) を 満足すること。
5.4 Damp heat 耐湿性	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% の恒温恒温槽中にて 96 ± 4 時間放置 し、常温常温中に 1 時間放置後 1 時間以内に測定する。 ただし水滴は、取り除くものとする。	Change in total resistance is relative to the value before test: +35 Noise: Refer to Note 1) Operating force: 10~200gf Clause (3), (4) shall be satisfied. 全抵抗値の変化は 初期値の +35 -- 5 % 以内 しゅう動聲音は 注記 1) による。 作動力 10~200gf その他は、(3項) (4項) を 満足すること。
5.5 Change of temperature 温度サイクル	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 サイクル試験後、常温常温中に 1 時間放置後 1 時間以内に測定する。ただし水滴は、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: 10~200gf Clause (3), (4) shall be satisfied. 全抵抗値の変化は 初期値の±20%以内 しゅう動聲音は 注記 1) による。 作動力 10~200gf その他は、(3項) (4項) を 満足すること。



ALPS ELECTRIC CO., LTD.

APPD.

CHKD.

DSGD.

TITLE

Sep. 12 '91

Sep. 11 '91

Sep. 9 '91

SPECIFICATIONS

DOCUMENT NO.

4S602R-003 (4/6)

SYMB	DATE	APPD.	CHKD.	DSGD.
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CLASS.NO.

TITLE

MASTER TYPE POTENTIOMETER(SLIDE)

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

注記 1) 試験後のしゅう動雜音規格は、下表による。

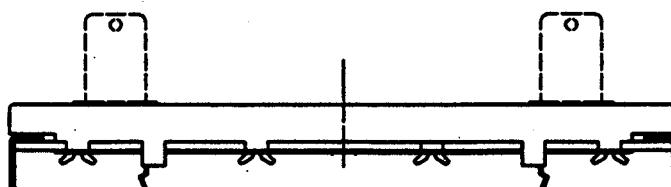
Nominal total resistance 公称全抵抗値 (KΩ) $5 \leq R_a \leq 50$	Nominal total resistance 公称全抵抗値 (KΩ) $50 < R_a \leq 500$
Less than <u>150mVP-P</u> 未満	Less than <u>300mVP-P</u> 未満

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。

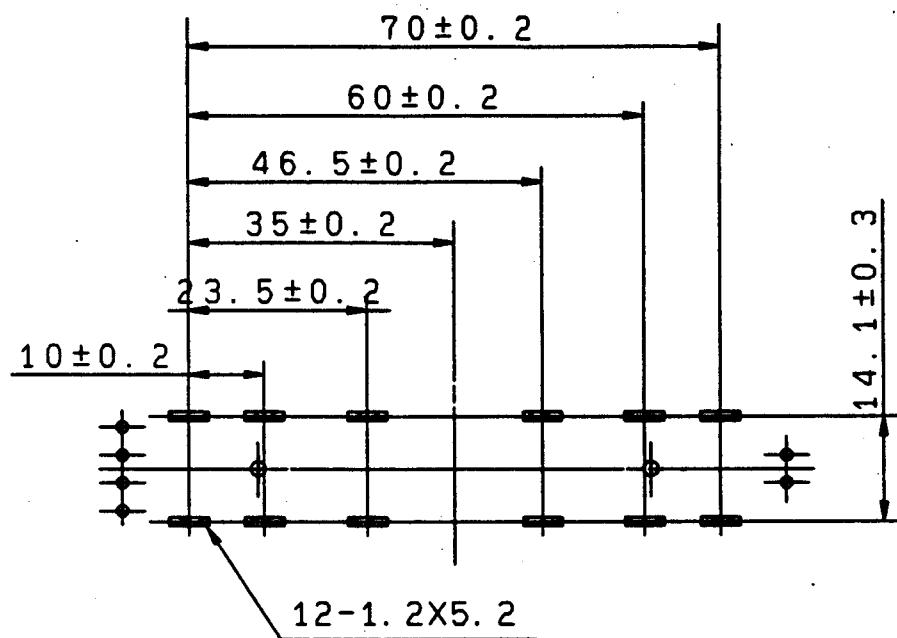
△ 3) Prohibition of pattern wiring for oblique line department.

3) 斜線部は、バターン配線を禁止します。



Viewed from mounting side

挿入側より



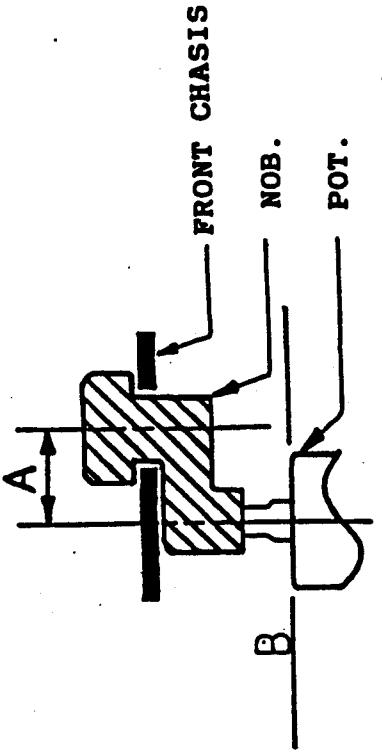
Unit: mm

..	..	..	..	..	ALPS ELECTRIC CO., LTD.		
..	..	..	..	..	APPD.	CHKD.	DSGD.
..	..	..	..	..	Apr. 17 '92	Apr. 17 '92	TITLE
..	..	..	..	..			SPECIFICATIONS
SYMB.	DATE	APPD.	CHKD.	DSGD.	S. Abe		DOCUMENT NO.
△ 1	Feb. 17 '94	Y.Y	b.a	Mar. 8			4S602R-003 (5/6)

A 6
5
4
3
2
1
PRECAUTION IN USE

1. If it will be used the operating point away from the center line of the lever, it should be shorter as possible.

2. 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.

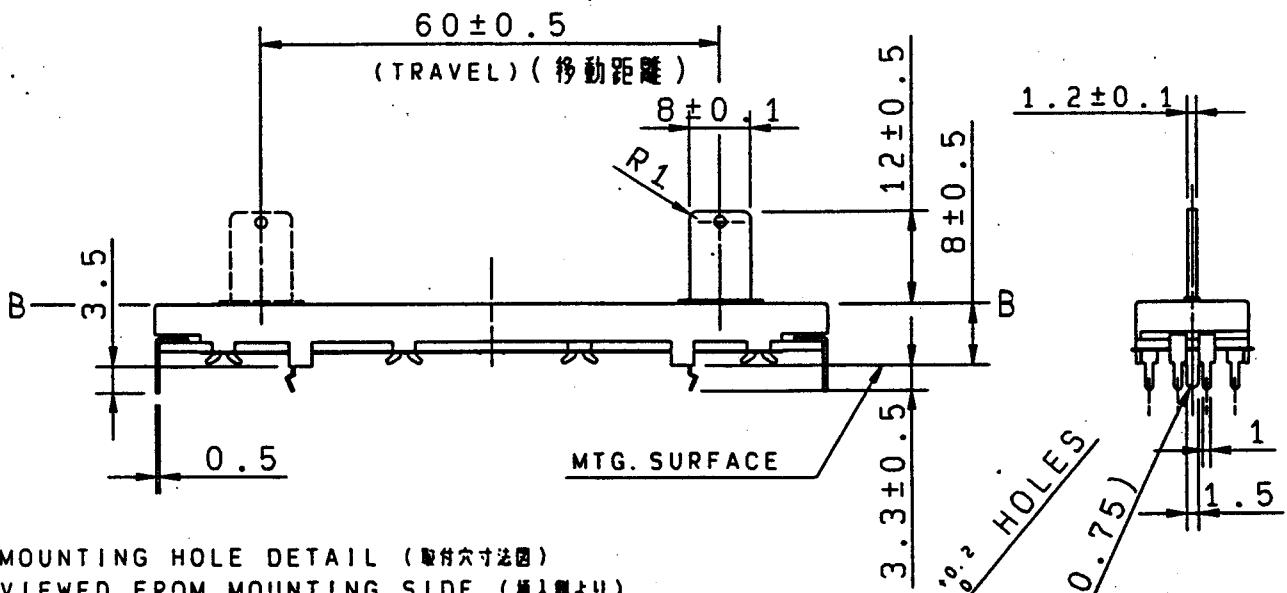
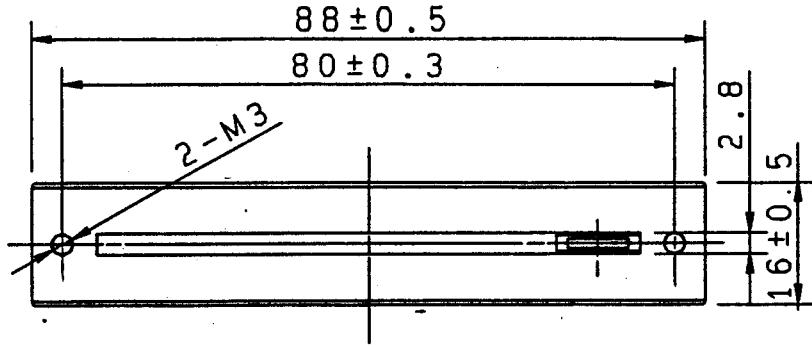


3. Regarding the operation of the lever, please consider the above mentioned, and make sure nothing is wrong with the operation under installing in your appliance that you plan to use our products actually.

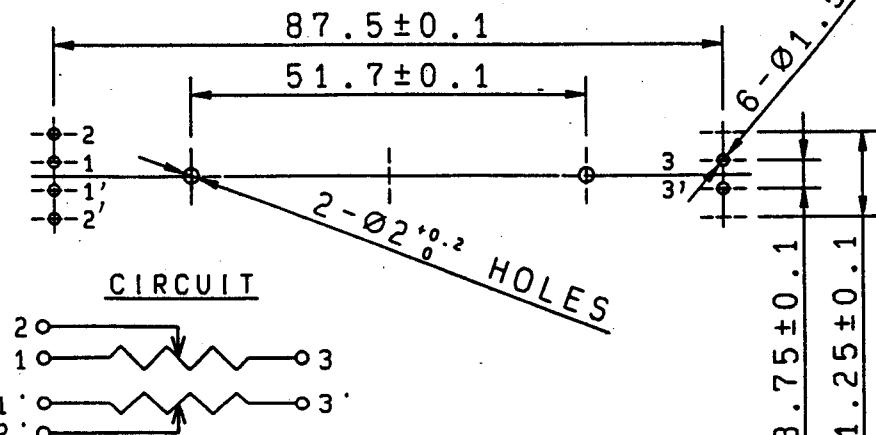
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APPD.	CHKD.	DSGD.	MM	SLIDE POTENTIOMETER
Aug. 10 '91	Aug. 9 '91	Aug. 9 '91		DOCUMENT NO.
				4S00001-200M
				Y. Yamada S. Oba
SIGN	DATE	APPR. CHAS.	DESA.	R



MOUNTING HOLE DETAIL (取付穴寸法図)
VIEWED FROM MOUNTING SIDE (導入側より)



NOTE 1. MOUNTING SCREW THREAD LENGTH IS
CHASSIS THICKNESS + 3mm MAX.

2. Within 30mm from B included knob's height.

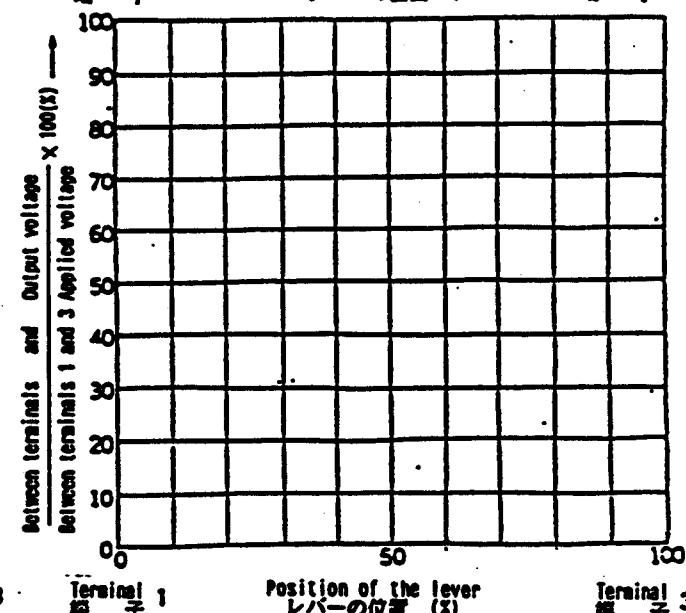
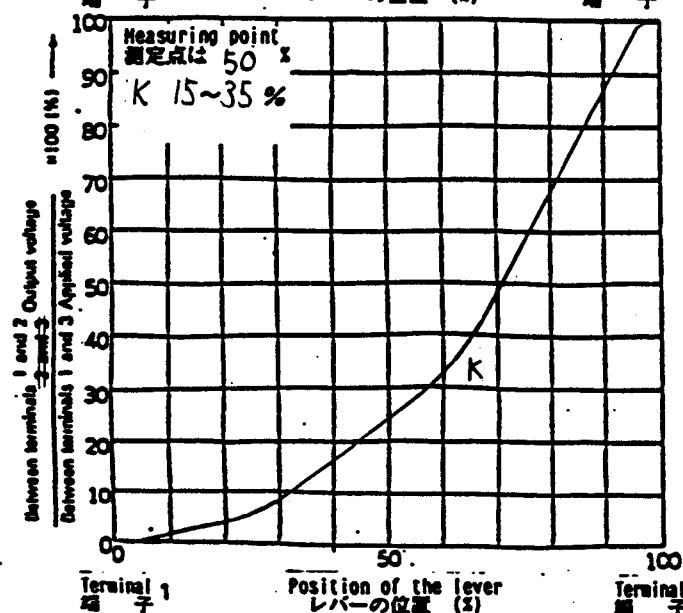
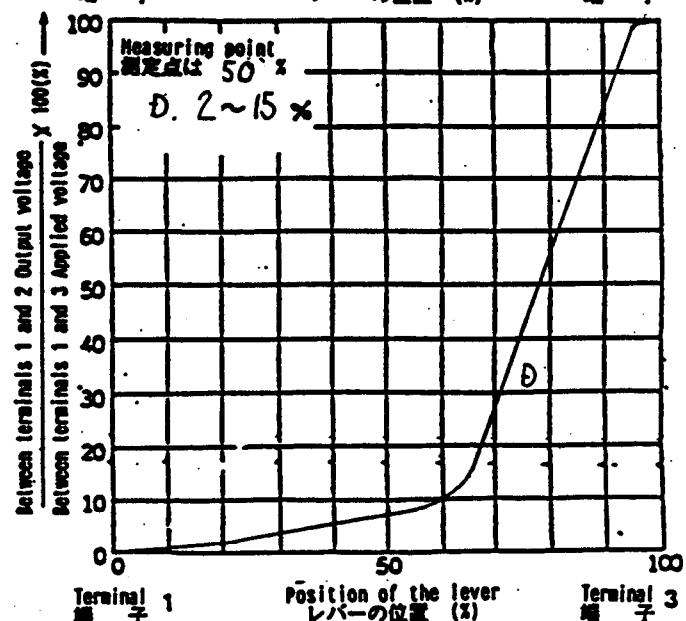
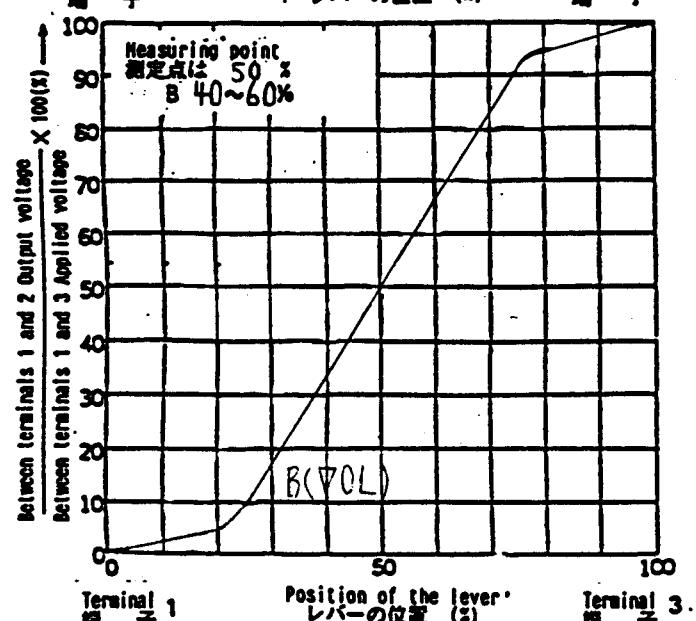
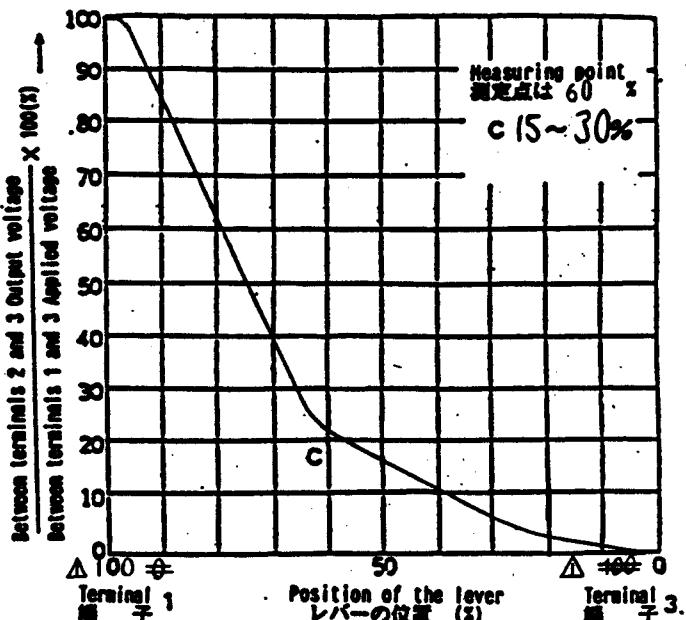
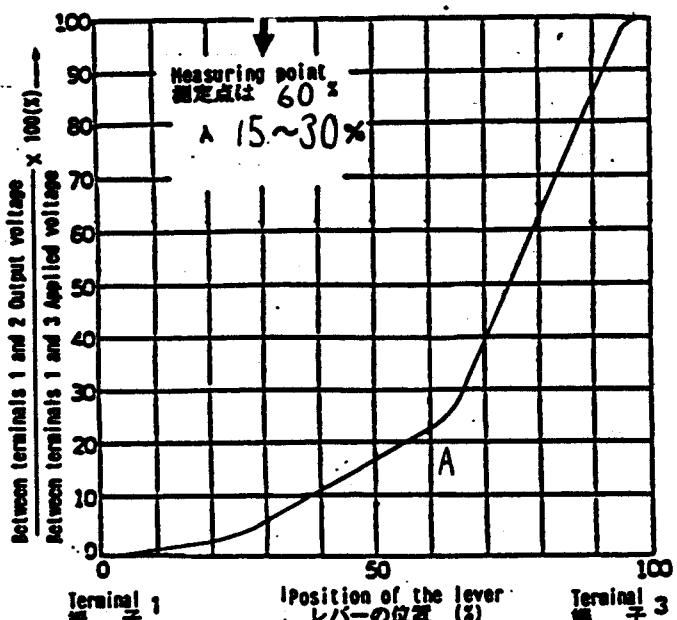
注記 1. 取付ネジの首下長さはシャーシ板厚 + 3mm 以下とする。
2. レバーの長さは、ツマミも含めて30mm以内にてご使用願います。

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

PART NO.	NAME	MATERIAL NAME / CODE	FINISH
①-12L アリナ 2連			
		ALPS	ALPS ELECTRIC CO., LTD.
		DSGD. 七ヶ日 S. ABE	SCALE 1 : 1
		90-07-20	S 602 RG1 O1
		CHKD. Y. Nakamura 90-10-17	FIGURE 60mm SLIDE POTENTIOMETER DUAL UNIT 2連スライドпотенциメータ
		APPD M. Itoh 90-10-19	UNIT mm
SYMB	DATE	APPD CHKD DSGD	R S 60 N 1
			90.3.13

N R

RESISTANCE LAW (TAPER) 抵抗変化特性規格



△ 3	Y.Y	APPD.	CHKD.	DSGD.	TITLE
5/23	DATE	Sep. 6 '91	Sep. 6 '91	Sep. 6 '91	SPECIFICATIONS
					DOCUMENT NO.
					4S602R-003 (6/6)

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 : 860mbar 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 : 860mbar to 1060 mbar.

試験及び測定は特に規定がない限り温度5~35°C、
相対湿度45~85%、気圧860~1060mbarの標準状態
のもとで行う。

ただし、判定に疑難を生じた場合は 温度20±2°C、
相対湿度65±5%、気圧860~1060mbarにて行う。

2. Appearance 外観

The potentiometer shall be well done and not have any excessive rust, crack, split, poor plating and discolor in any portion. 各部の仕上げは良好で機械上有害なサビ、キズ、ワレ、
メッキ不良及び剥離などがあってはならない。

3. Electrical characteristics 電気的性能

Item 項目	Conditions 条件	Specifications 規格				
		5	10	20	50	100
3. 1 Nominal total resistance and tolerance 公称全抵抗値 および許容差	Measurement shall be made by the resistance between terminal 1 and 3 with lever setted at terminal 1 or 3. レバーを端子1又は、3の終端におき、抵抗器の端子1-3間の抵抗値を測定する。	200	250	500	120%	(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の間に連続負荷することができる最大電力。周囲温度に対する電力経減曲線は右図とする。					
3. 3 Rated voltage 定格電圧	Rated voltage $E = \sqrt{PR}$ (V) P: Power rating 定格電力 (W) R: Nominal total resistance 公称全抵抗値 (Ω) When the rated voltage exceeds the maximum operating voltage, the maximum operating voltage shall be the rated voltage. ただし、定格電圧が最高使用電圧を超える場合は、この最高使用電圧を定格電圧とする。	Maximum operating voltage 最高使用電圧		DC 10V AC150V		
3. 4 Resistance law (Taper) 抵抗変化特性	Measurement shall be made by the resistance law method. 電圧法にて測定 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. $\frac{\text{Output voltage between terminals 1 and 2}}{\text{Applied voltage between terminals 1 and 3}} \times 100\% \quad 6/6$ $\frac{1-2端子間出力電圧}{1-3端子間印加電圧} \times 100\% \quad 6/6$ $\frac{\text{Output voltage between terminals 1 and 2}}{\text{Applied voltage between terminals 1 and 3}} \text{ (dB)} \quad 5/5$ $20 \log \frac{1-2端子間出力電圧}{1-3端子間印加電圧} \text{ (dB)}$	Resistance law (Taper) 抵抗変化特性 A, B, C D, K,	Refer to page 5/5 5/5ページ参照			

..	..	..	..	..	ALPS	ALPS ELECTRIC CO., LTD.		
..	..	..	..	..	APPD.	CHKD.	DSGD.	TITLE
..	..	..	..	..	Sep. 12 '91	Sep. 11 '91	Sep. 9 '91	SPECIFICATIONS
..	..	..	..	..				DOCUMENT NO.
△1 May 89	Y.Y	Y. Sato						4S602R-003 (1/6)
SYMB DATE APPD. CHKD. DSGD.								

ALPS ELECTRIC EUROPA GmbH**Subject:Engineering change notice for marking method.**

Dear Sirs.

I would like to submit an Engineering change notice for the marking method of potentiometer.

1. Contents of Engineering change

Please see attached sheet.

After this change, we are still marked "Customer parts number" on each Package.

2. Reason

Reduce manufacturing lead time.

-Marking process is an additional process for standard manufacturing processes. And also inspection.

Standardization

-ALPS standard marking is the same as this engineering change notice.

3. Date of this Engineering change.

This engineering change applies from Aug 1995.

4. Applicable part number.

Please see attached sheet.

Sincerely yours,



Shouzou Shirai

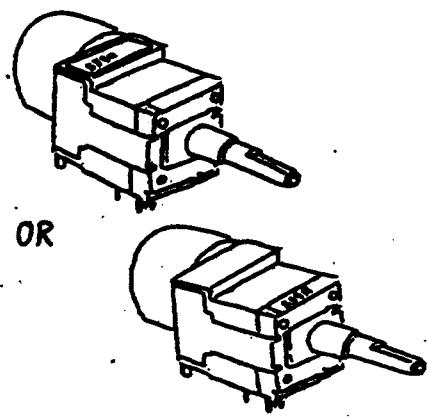
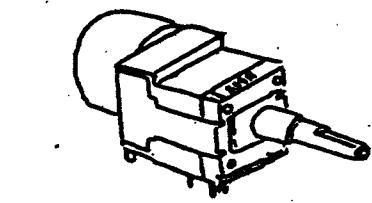
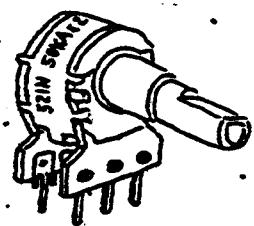
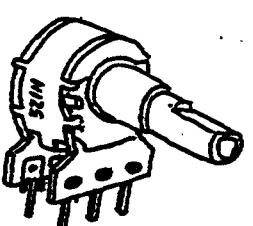
Manager

Production department 1

Mechatronic devices division 2

ALPS ELECTRIC CO., LTD.

Contents of Engineering change.

Current	After Engineering change
Potentiometer marked "Total resistance", "Resistance taper" and "Date code"	Potentiometer marked "Date code" only.  OR 
	

B6523

ALPS ELECTRIC EUROPA GmbH 御中該当品リスト
<Applicable products>

御社部品番号 [Your Part Number]	当社製品番号 [Our Model Number]
STRS60N07	RS60N121100CA
STRSAON05	RSAON111100BA

ALPS ELECTRIC EUROPA GmbHSubject:Engineering change notice for marking method.

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Shouzou Shirai

Manager

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Mechatronic devices division 2

ALPS ELECTRIC CO., LTD.

Contents of Engineering change.

Current	After Engineering change
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