

Customer: AEE-DS

No. SS-95-0634

Date: Jul. 31, 1995

Attention:

Your ref. No:

Your Part. No: ALPS-ALLTRONIC

104543

SPECIFICATIONS

ALPS:

MODEL RS6011266
(100kA X 2)

Spec. No. :

Sample No. : F4517756M

RECEIPT STATUS

RECEIVED

By. Date

Signature

Name

Title

ALPS ELECTRIC CO., LTD.

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DSG'D

H. Kimura

APP'D

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Sales

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RS6011266 POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

4S6028-411M
4S0008-45M
4S0001-200, 4S0001-201
S6028P623A

3. MARKING

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

4. REMARKS

· NOTES

· Marking $\Rightarrow$ in specifications shows standard and condition for application.

PRELIMINARY copy.

MECHANICAL

- 1. Travel : Specified in particular Figure.
- 2. Operating force : 30 - 250 gf (Note 1)
- 3. Starting force : Operating force + 100 gf max. (Note 1)

(Note 1) Measuring temperature : 5°C - 35°C

Measuring point :

- ➔ : 5 mm from lever end (Lever length > 6 mm)
- : 1 mm from lever end (Lever length ≤ 6 mm)
- Sliding speed : 20 mm per sec.

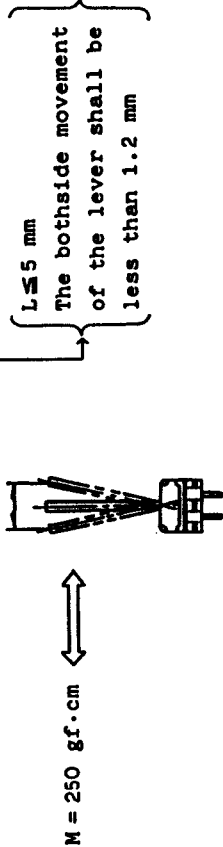
4. Stop strength :

- ➔ 5 kgf at a position 5 mm from mounting surface.
(Lever length > 6 mm)
- 5 kgf at a position 2 mm from mounting surface.
(Lever length ≤ 6 mm)

5. Lever lateral play :

When an alternating bending moment of 250 gf.cm is applied perpendicular to the direction of lever travel, the bothside movement of the lever shall be less than 2 (2 X L / 20) mm
L: Lever length on the measurement point from mtg. surface.
(Note 2) Exempt warping of insulated lever.

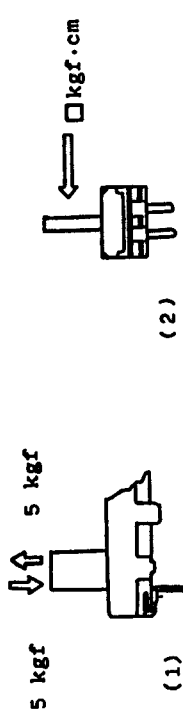
Lever lateral play



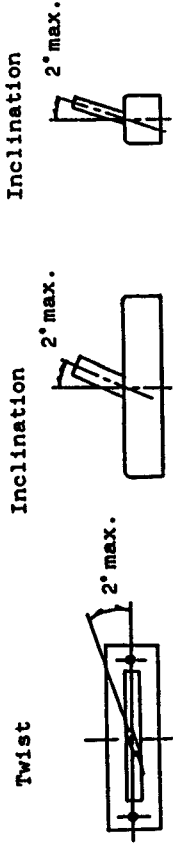
6. Lever strength :

- (1) To be resistant with 5 kgf static force of pull or push applied to lever in thrust direction for 10 seconds without damage.

- (2) To be resistant with following static force applied to lever in vertical direction to lever driving for 10 seconds without damage.
- ① 2 kgf.cm over : in case of pot., mounted to chassis with screws.
- ② 0.5 kgf.cm over : in case of pot., mounted to P.C.B. only with terminals.
- ③ 2 kgf.cm over : in case of pot., mounted to P.C.B. with both terminals and mounting plate.



7. Lever inclination and twist :



8. Resistance to soldering heat : 3 sec. max. at 300°C

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

レバー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.

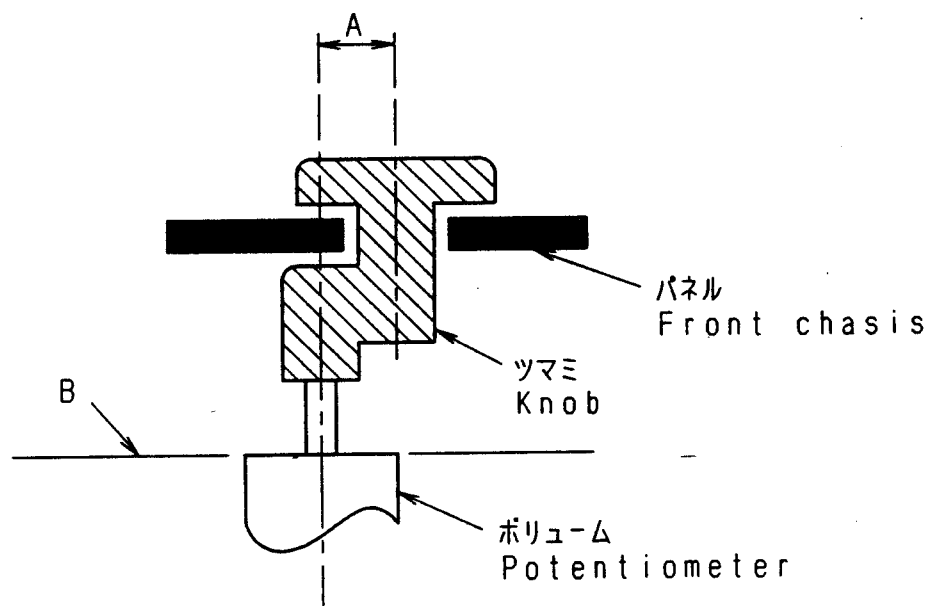
2. レバー長さについて

レバー長さについては、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。レバー長さについては、作用点までの距離が短いほどしゅう動感覚が良好となり、長いほど好ましくない感覚になります。

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. レバー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. ツマミ挿入及びレバー操作は、ボリュームマウント基板に
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 ELECTRIC CO., LTD.			
					APPD.	CHKD.	DSGD.	TITLE
					PDI-ENG1	PDI-ENG1	PDI-ENG1	スライドボリューム仕様書
					'95.7.24	'95.7.24	'95.7.24	SPECIFICATIONS
					YOSHIOA	KIMURA	Y.SAITOH	DOCUMENT NO.
ORIGINAL	91-7-3	Y·Y	K·N	S·A	4S0001-200			
SYMB	DATE	APPD	CHKD	DSGD				

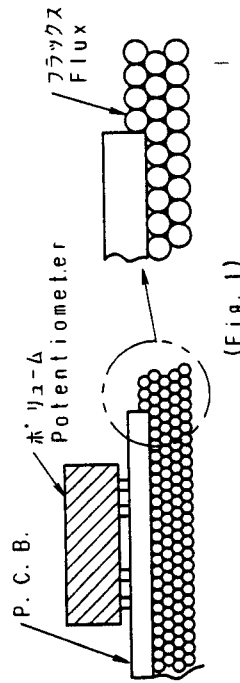
ORI

はんだ付け条件

FOLLOW THE NEXT CONDITIONS FOR SOLDERING

1. はんだ SOLDER
JIS Z 3282に規定の63% Snはんだを使用
63% Sn solder specified in JIS Z 3282.
2. 使用基板 BOARD IN USE
両面スルーホール基板又は、片面銅箔積層板 板厚 $t=1.6\text{mm}$
Double-faces through-hole board or Single-face copper laid laminate board.
Plate thickness (t) = 1.6mm
3. 自動はんだくDIP条件
(1) レバー位置 センター付近に設定願います。
(2) フラックス比重 0.83 ± 0.01 (発泡式)
(3) フラックス高さ フ・リント基板の板厚の半分の位置にフラックスの上面が接するレベル (図1)
又、ホ・リウム挿入面への流れ込みの無いこと。(フラックス上がり、糸状に注意)
(4) フ・リント温度 100°C max. 時間1分以内。(フ・リント基板のホ・リウム挿入面の温度)
(5) はんだ温度 260°C max. 時間5秒以内。 はんだ回数は1回までとする。

- 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.
 - (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. 手はんだ IN THE CASE OF MANUAL SOLDERING
はんだ温度 300°C max. 時間3秒以内 はんだ回数は1回までとする。
Solder temperature : 300°C max.
Soldering period : within 3 seconds
Time of soldering : only one time is permitted

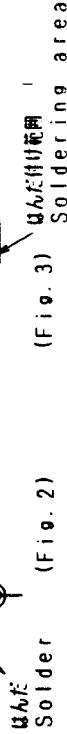
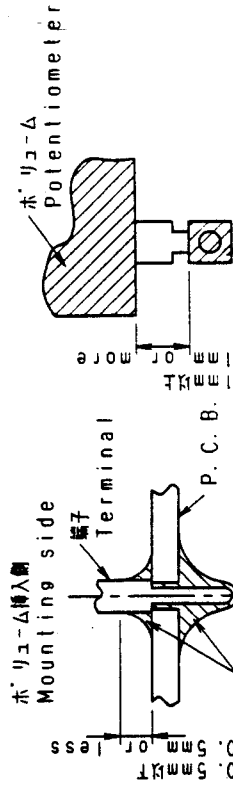
ALPS ELECTRIC CO., LTD.		TITLE スライド・ホ・リウム 仕様書		SPECIFICATIONS 1/2	
APPRO. 35.7.24	CHKD. 35.7.24	DESIGN. 35.7.24	PROV. 35.7.24	TESTING 35.7.24	35.7.24
ORIGINAL 31-9-3	Y-Y	S-A	S-S	DATE	450001-201
SYMB		DATE	APPRO	CHKD	DSGD

5. 注意事項

- (1) はんだ付けの際に、端子にストレスを加えないで下さい。例えば、端子に熱を加えたまま製品を動かしますと、かしめ力・タ及び電気的特性が劣化する恐れがあります。
- (2) 両面スルーホール基板を使用する場合は、ホ・リウム挿入側の端子取り付け穴に、はんだランドがないようにご配慮願います。ホ・リウム挿入側での配線が必要な場合は端子取り付け穴からの直接取り出しを避けスルーホール配線用の穴を設けるなどのご配慮をお願いいたします。
- (3) ホ・リウム挿入側へのはんだ上りりは、はんだ熱による端子接触不良の発生原因となりますので(図2)を参照願います。
- (4) リード・配線の場合、ホ・リウム本体と、はんだ付け部の距離を1mm以上開けてはんだ付け願います。(図3)
- (5) はんだ付けによるホ・リウムへの影響は、フ・リント基板の大きさ、ホ・リウムの取り付け位置、はんだの大きさ、等により異なりますのであらかじめ実使用状態で実証し、異常のないことを確認の上、はんだ付けて下さい。

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) Avoid use of double-faces through-hole board as much as possible. If it is necessary to use it, Do not apply through-hole plating to a hole in which a potentiometer is inserted, and install a land to which terminals are soldered only on a face opposite to the face on the side of installing potentiometer.
- (3) 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)
- (4) 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)
- (5) 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.



ALPS ELECTRIC CO., LTD.		TITLE スライド・ホ・リウム 仕様書		SPECIFICATIONS 2/2	
APPRO. 35.7.24	CHKD. 35.7.24	DESIGN. 35.7.24	PROV. 35.7.24	TESTING 35.7.24	35.7.24
ORIGINAL 31-9-3	Y-Y	S-A	S-S	DATE	450001-201
SYMB		DATE	APPRO	CHKD	DSGD

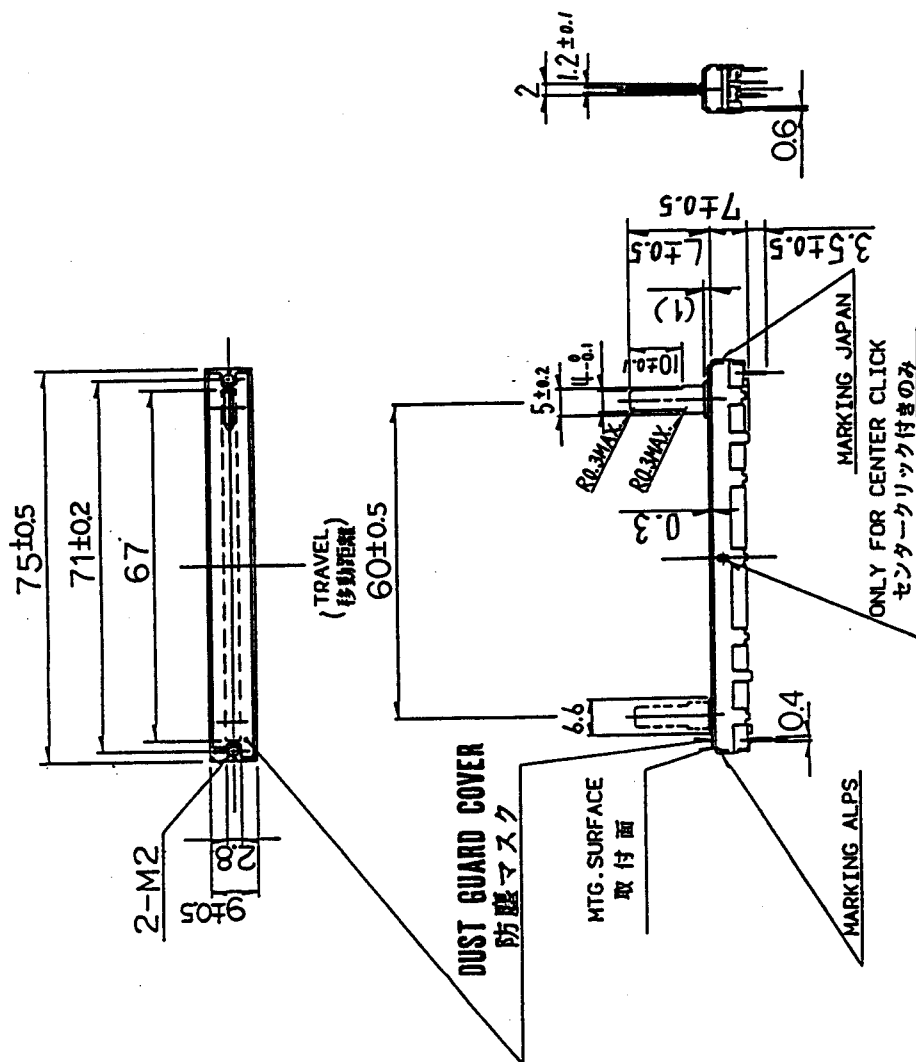
NOTES

1. MOUNTING SCREW THREAD LENGTH IS CHASSIS THICKNESS + 2 mm MAX.

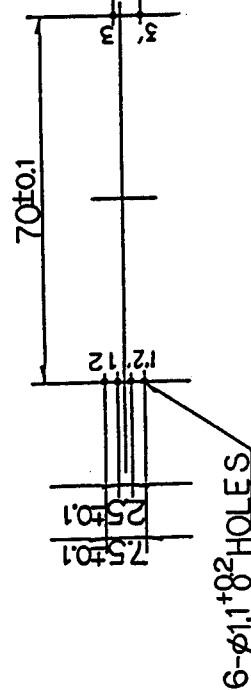
取付用ネジの首下長さは、シャーン板厚 + 2 mm 以下とする。

2. TOP SIDE OF KNOB SHALL BE MOUNTED TO LEVER WITHIN 30 IN. LENGTH FROM LEVER MTG. SURFACE.

取付面からツマミ先端まで 30 mm 以内でご利用願います。



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



L	— NO CLICK クリックなし	P N 登録	WITH CENTER CLICK センタークリック付き	P N 登録
25	S6028P686A	30.3.12	S6028P687A	..
20	S6028P654A	87.11.26	S6028P688A	..
15	S6028P623A	86.3.28	S6028P689A	..

許容差の指定および注の公称	
TOLERANCES UNLESS OTHERWISE SPEC	
BASIC DIMENSIONS	TOLERANCE
$L \leq 10$	± 0.3
$10 < L \leq 100$	± 0.5
$100 \leq L$	± 0.8
ANGULAR DIMENSION	公差 $\pm 5^\circ$

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FIGURE: SLIDE POTENTIOMETER
60mm DUAL UNIT

60形2連スライドボリウム組立図

DOCUMENT NO. C 311

DOCUMENT NO.
56028-6311