Customer : AEE-DS

No. F3692422M

401514

Date : Nov. 03, 1994

Attention:

Your ref. No:

Your Part. No : Albs-Alltronic

SPECIFICATIONS

Entwicklung - Herstellung - Vertrieb

www.albs.de

albs ALLTRONIC

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Autorisierter Bauelemente Distributor von
ALPS®

ALPS ' ;

MODEL RS6011266 (10KA X 2)

Spec. No. :

Sample No. : F3692422M

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 M. Fujita

APP'D M. Ito

ENG. DEPT. DIVISION

Sales

No. F3692422M

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RS6011266 POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

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.

CLASS NO.	TITLE
	STANDARD TYPE POTENTIOMETER (SLIDE,

ELECTRICAL

1. Overall resistance :

   Overall resistance tolerances : ±20 %

   Unit : KΩ

5	10	20	50	100	200	250	500	1,000

2. Minimum resistance :

   Unit : Ω

Overall resistance (KΩ)	5,10	20,50	100	200, 250	500	1000
Across term.1-2 / Across term.2-3	30 / 50	50 / 70	100 / 120	200 / 220	300 / 320	500 / 500

3. Taper : "A" (SAS16)
4. Rated power : 0.1 Watts.
5. Rated voltage : Rated voltage = $\sqrt{P \cdot R}$ (V)

   P : rated power (W)

   R : nominal overall resistance (Ω)

   When the rated voltage exceeds the maximum operating voltage the maximum operating voltage shall be the rated voltage.

   Maximum operating voltage : A.C.150 V , D.C. 10 V
6. Dielectric test : Units shall be designed to withstand 300 volts A.C. 50 Hz R.M.S. between resistance elements and case for a period of one minute without damage or arcing.
7. Insulation resistance : Greater than 100 megohms between resistance elements and case when tested by a 250 volts D.C. insulation resistance meter.
8. Tracking error : 3 dB from -40 to 0 dB
9. Sliding lifetest : 15,000 cycles

* Lever shall be operable with speed of 20 mm per sec.without noise by static electricity.

SYMB	DATE	APPD.	CHKD.	DSGD.
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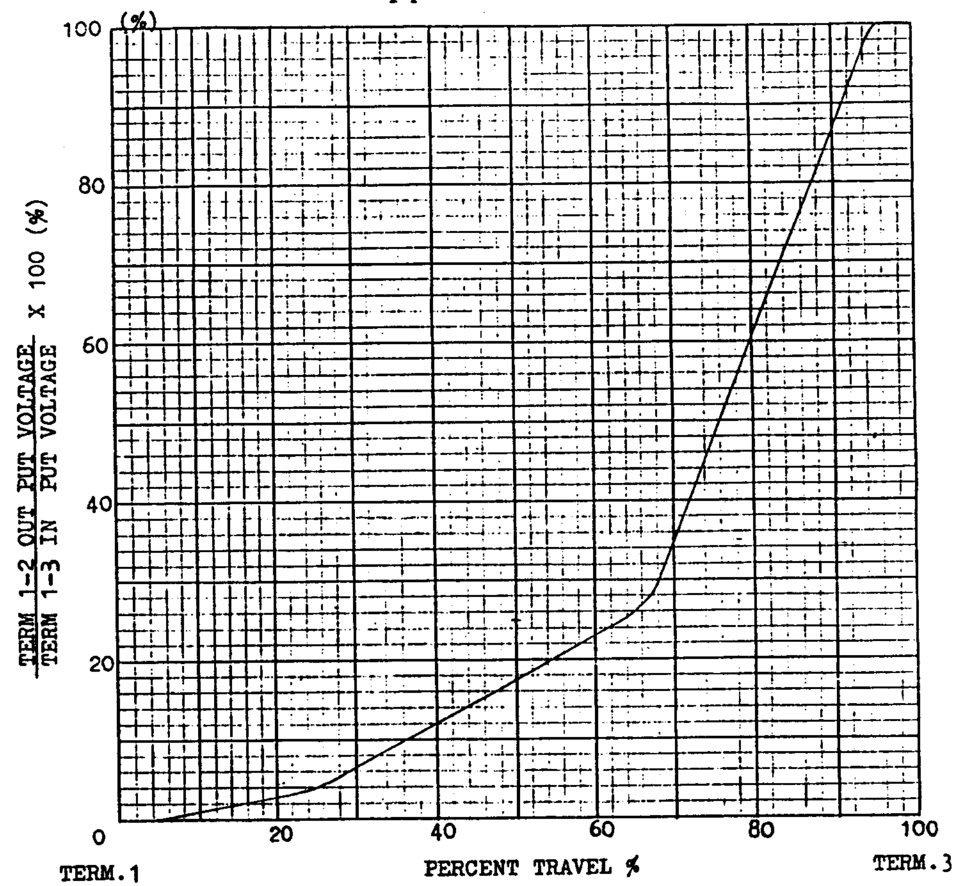
ALPS ELECTRIC CO., LTD.

APPD.	CHKD.	DSGD.	TITLE
Aug. 9 '91		May 16 '91	SPECIFICATIONS
			DOCUMENT NO. 4S6028-411 M

-治電独立 5~1Ms VOL.

USED ON	NAME
45, 60 mm TRAVEL TYPE	RESISTANCE TAPER
ALPS ELECTRIC CO., LTD. 1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN	TITLE SPECIFICATIONS

TAPERED CURVE: "A"



NOTES: PERCENT VOLTAGE CHECK POINT

50% TRAVEL FROM TERM.1

TOLERANCE

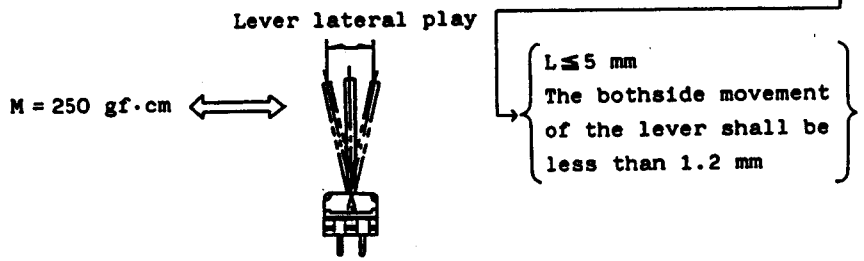
10-25 %

SYMB	DATE	APPD.	CHKD.	DSGD.	APPD.	CHKD.	DSGD.	NAME
					Aug. 22 '81		Aug. 28 '81	RESISTANCE TAPER
								DWG.NO. SAS 16

0 R

MECHANICAL

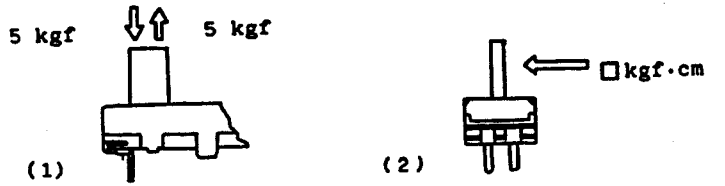
1. Travel : Specified in particular Figure.
2. Operating force : 30 – 250 gf (Note 1)
3. Starting force : Operating force + 100 gf max. (Note 1)
   (Note 1) Measuring temperature : 5°C – 35°C
   Measuring point :
   ➡ : 5 mm from lever end (Lever length > 6 mm)
   : 1 mm from lever end (Lever length ≦ 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×L/20) mm
   L: Lever length on the measurement point from mtg. surface.
   (Note 2) Exempt warping of insulated lever.



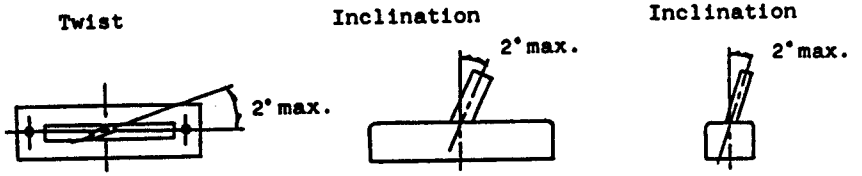
6. Lever strength :
   (1) To be resistant with 5 kgf static force of pull or push applied to lever in thrust direction for 10 seconds without damage.

	ALPS ELECTRIC CO., LTD.			
	APPD. Sep.4'91	CHKD.	DSGD. Sep.3'91	TITLE: SPECIFICATIONS
SYMB. DATE APPD. CHKD. DSGD.				DOCUMENT NO. 4S0008-45M (1/2)

(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 :



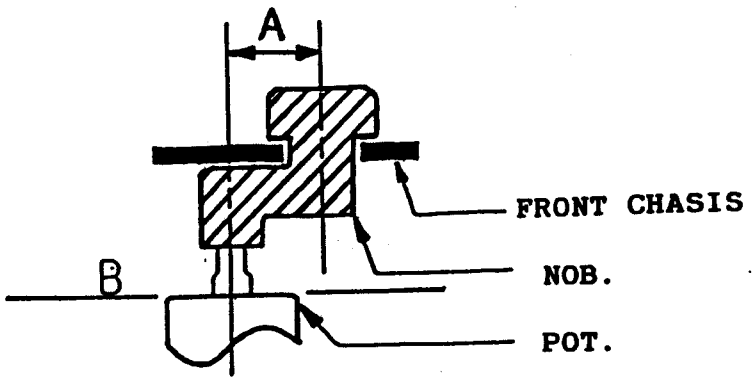
8. Resistance to soldering heat : 3 sec. max. at 300°C

	ALPS ELECTRIC CO., LTD.			
	APPD. Sep.4'91	CHKD.	DSGD. Sep.3'91	TITLE: SPECIFICATIONS
SYMB. DATE APPD. CHKD. DSGD.				DOCUMENT NO. 4S0008-45M (2/2)

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.

SYMB.	DATE	APPD.	CHKD.	DSGD.

ALPS ELECTRIC CO., LTD.

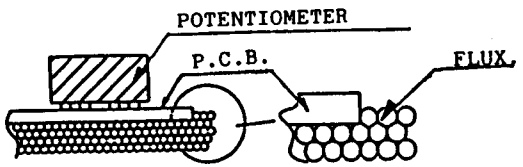
APPD.	CHKD.	DSGD.
Aug.-9'91 Y. Yoshida	Aug. 9'91 H. Narisawa	Aug. 9'91 S. Abe

TITLE: SLIDE POTENTIOMETER

DOCUMENT NO. 4S0001-200M

FOLLOW THE NEXT CONDITIONS FOR SOLDERING

1. Solder
   63 % Sn solder specified in JIS Z3282.
2. Board in Use
   Double-faces through-hole board or
   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.

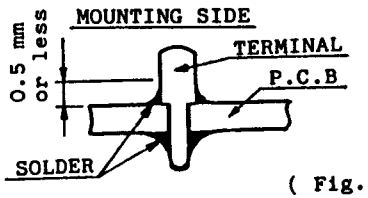


(Fig. 1)

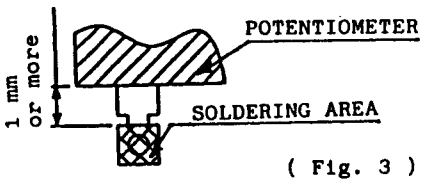
   (4) Preheat Condition
   100°C MAX.,within 1 minute
   (Temperature on the side of installing printed board is designated.)
   (5) Soldering Condition
   Solder temperature; 260°C MAX.
   Soldering period ; within 5 seconds
   Time of soldering ; only one time is permitted

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) 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)



(Fig. 2)



(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 abnomal state under the conditions of soldering to be carried our at present.

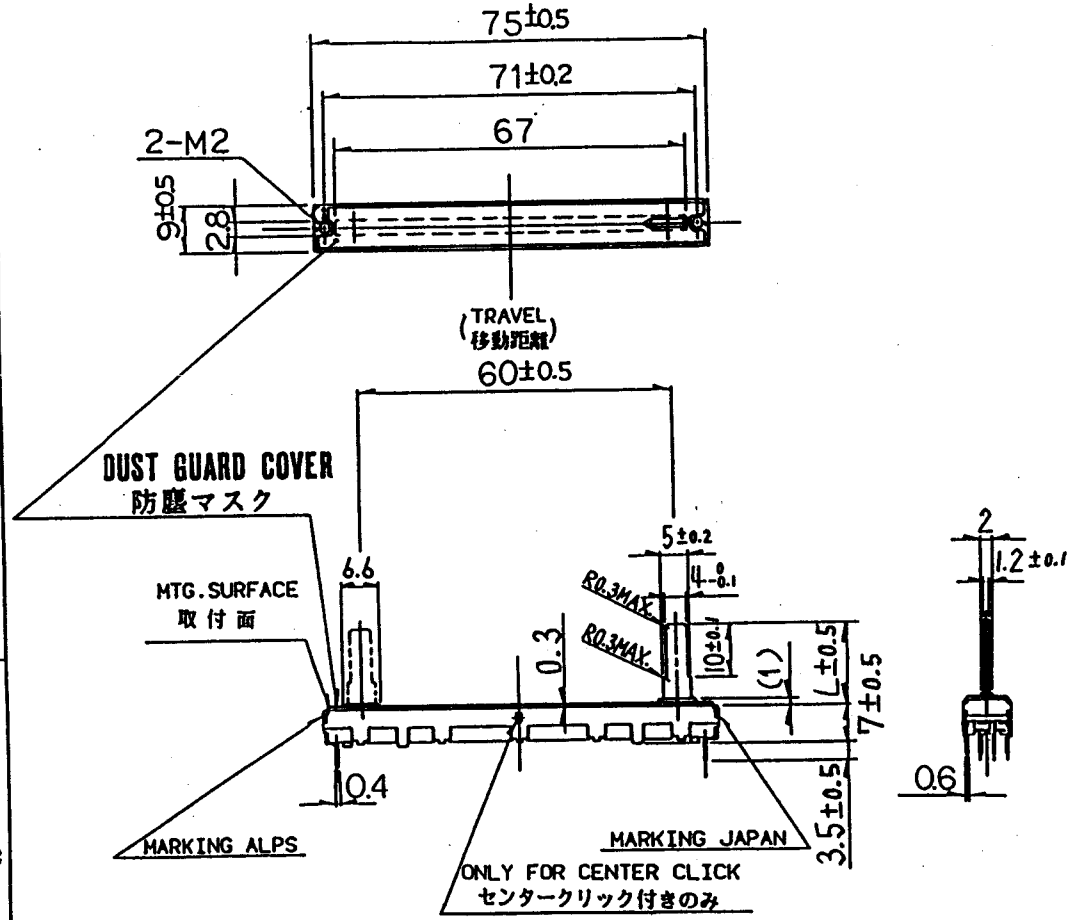
SYMB.	DATE	APPD.	CHKD.	DSGD.

ALPS ELECTRIC CO., LTD.

APPD.	CHKD.	DSGD.
Sep.5'91	Sep.5'91	Sep.5'91

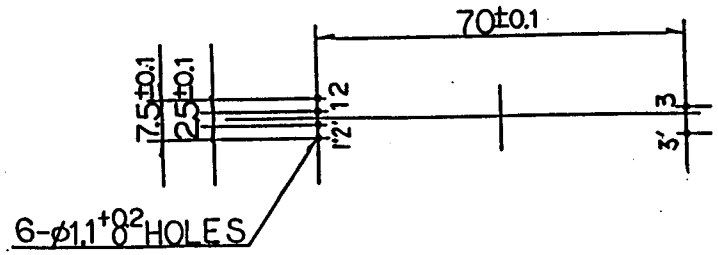
TITLE: SLIDE POTENTIOMETER

DOCUMENT NO. 4S0001 - 201M



MOUNTING HOLE DETAIL 取付穴寸法図

(VIEWED FROM MOUNTING SIDE) (挿入側より)



NOTES

1. MOUNTING SCREW THREAD LENGTH IS CHASSIS THICKNESS + 2 mm MAX.
取付用ネジの首下長さは、シャーシ板厚 + 2 mm 以下とする。

2. TOP SIDE OF KNOB SHALL BE MOUNTED TO LEVER WITHIN 30 mm LENGTH FROM LEVER MTG. SURFACE.
取付面からツマミ先端まで 30 mm 以内でご使用願います。

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	'90.3.12	S6028P687A	・・
20	S6028P654A	'87.11.26	S6028P688A	・・
15	S6028P623A	'86.3.28	S6028P689A	・・

許容差の指定なき寸法の公差	
TOLERANCES UNLESS OTHERWISE SPEC	
BASIC DIMENSIONS	TOLERANCE
L ≦ 10	± 0.3
10 < L < 100	± 0.5
100 ≦ L	± 0.8
ANGULAR DIMENSION 角度	± 5°

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ALPS ELECTRIC CO., LTD.

UNIT	SCALE	FIGURE: SLIDE POTENTIOMETER 60mm DUAL UNIT
mm	・	60形2連スライドボリューム組立図
APPD. May. 1989 H. Otome	DSGD. May 1989 N. Ito	DOCUMENT NO. S6028-6311
CHKD.		