- Customer: ALPS ELECTRIC EUROPA GmbH -	No. F38524
	Date:Nov
Attention:	
Your ref. No: 12 3005.	
Your Part. No: STRS 30102	•

SPECIFICATIONS

ALPS:

MODEL _ STRS30102K _____

Sample No.: F3852497N

RECEIPT STATUS
RECEIVED
By. Date & Stilos.

Signature PSC
Name
Title

ALPS ELECTRIC CO., LTD.

HEAD OFFICE 1-7. YUKI GAYA-OHTSUKA-CHO. OHTA-KU, TOKYO 145 JAPAN APP'D A Store
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No. <u>F3852497M</u>

SPECIFICATIONS

- 1. THIS SPECIFICATIONS APPLY TO RS3011114
- POTENTIONETERS.
- 2. CONTENTS OF THIS SPECIFICATIONS.

4\$3018-302M 4\$0008-45M 4\$0001-200M, 4\$0001-201M \$3018G402A

- 3. MARKING
 - -MARKING ON ALL UNITS
 DATE CODE, RESIST. VALUE, TAPER, TRADE WARK, JAPAN
 - 4. REMARKS
 - · NOTES

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

CLASS NO. STANDARD TYPE POTENTIOMETER (SLIDE) ELECTRICAL 1. Overall resistance : Overall resistance tolerances : ±20 % Unit: KQ 10 20 200 1,000 2. Minimum resistance : Unit : Q Overall 500 1000 5,10 20,50 100 resistance term.1-2 30 50 100 200 300 500 Across term.2-3 50 70 120 220 320 500 Across term.1-2 (SBS48) 3. Taper : ALPS B 4. Rated power : 0.2 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. 200 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. 15,000 cycles 8. Sliding lifetest: . Lever shall be operable with speed of 20 mm per sec.without noise by static electricity. ALPS ELECTRIC CO., LTD. SPECIFICATIONS ly sq'fl document no. 453018-302M SYMA DATE APPO CHE DOCA

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

TAPERED CURVE: ALPS "B" X 100 TERM 1-2 OUTPUT - VOLTAGE ERM 1-3 IMPUT VOLTACE TERM. 1 PERCENT TRAVEL \$ TERM. 3 NOTES: PERCENT VOLTAGE

APFD. CHED. DSGD. HAME

On 9977

On 18 RESISTANCE TAPER

50% TRAVEL FROM TERM. 1

CHECK POINT

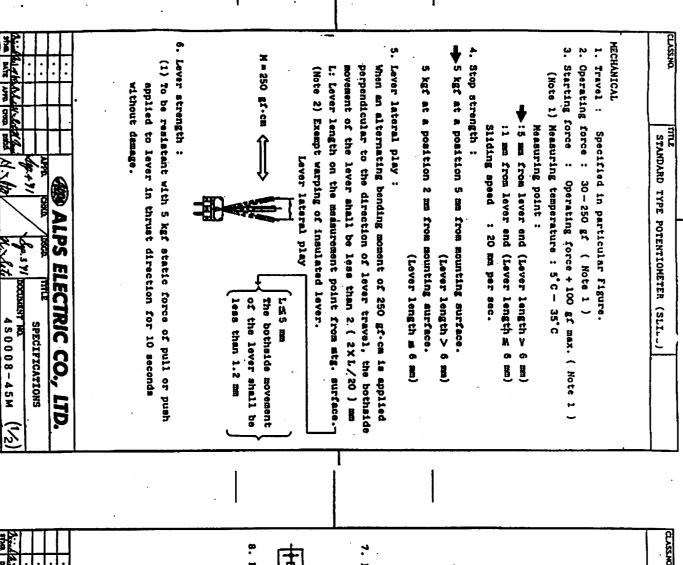
TOLERANCE

SBS48

40 - 60 \$

- 14 (B) #

@ 5-1H



C VSS O (2) To be resistant with following static force applied to 0 seconds without damage. lever in vertical direction to lever driving for 10 0.5 kgf cm over : in case of pot., mounted to P.C.B. kgf.cm over : in case of pot., mounted to chassis STANDARD TYPE POTENTIOMETER (SLIDE) only with terminals. with acrevs.

kgf-cm over : in case of pot., mounted to P.C.B. plate. with both terminals and mounting

0

5 X81

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7. Lever inclination and twist :

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34184

Inclination

Inclination 了 2.mex.

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

ALPS ELECTRIC CO., → 3 11/ pocuszen No. SPECIFICATIONS

450008-45M (2/2)

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(48-680841-W754 A4 51.5, 3.000 16) 17:

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PRECAUTION IN USE

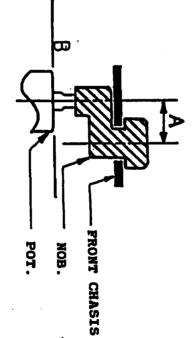
1.If it will be used the operating point away from the center line of the lever, it should be shorter as possible.

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

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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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The state of the state of the least state of the state of	7. WA	10001-200M	A TABLITON	SLIDE POTENTIONETER	(Pr. 6 PM)	DSGD.	D	AIDS ELECTRIC CO., LTD.

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

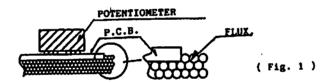
- 3. In the Case of Dip Soldering
 - (1) State of potentiometer

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.



- (4) Preheat Condition
 - 100 °C MAX., within 1 minute
 - (Temperature on the side of installing printed board is designated.)
- (5) Soldering Condition

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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

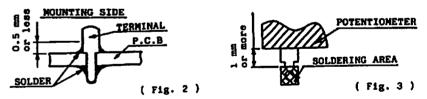
Solder temperature : 300°C MAX.

; within 3 seconds Soldering period

; only one time is permitted Time of soldering

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

	• •				ALPS ELECTRIC CO., LTD.							
	•				APPD.			DSGD.				
	• •				Sep. 15	9/	Sep. 59%	Sq. 5'91	THY LE	SLIDE POTENTIOMETER		
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25.00	DATE	APPO	CORT	DSCD.	19 W		14 170	W.Sour	 	[[[[[[[[[[[[[[[[[[[[

