Customer : ALPS ELECTRIC EUROPA GmbH

No. F3861062M

Date : Nov. 18, 1994

Attention :

Your ref. No :

Your Part. No : STRK27102

SPECIFICATIONS

ALPS :

MODEL RK27112A0 (20kAX2)

Spec. No. :

Sample No. : F3861062M

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 Y. Saitoh

APP'D M. Satoh

ENG. DEPT. DIVISION

Sales

No. F3861062M

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RK27112A0 POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

3. MARKING

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

2

4. REMARKS

·FURNISH PACKAGE
NUT: 1, WASHER: 1
· NOTES

·Silver printed patterns are coated with carbon as a protection against sulphuration.
·Marking ⇒ in specifications shows standard and condition for application.

CLASS NO. | TITLE **SPECIFICATIONS**

ELECTRICAL 20 kΩ (10KΩ≦R≦2MΩ)

1. Total resistance tolerance: Nominal ± 20%
2. Rated voltage : 30V A.C. This potentiometer is designed for A.C. voltage only.
3. Resistance taper: See taper figure
4. Maximum attenuation level on full C.C.W. position:

Nominal total resistance value	Max.att.level
Ra ≧ 100 kΩ	100dB min.
100 kΩ > Ra ≧ 50 kΩ	90dB min.
50 kΩ > Ra ≧ 10 kΩ	80dB min.

5. Insertion loss on full C.W. position: 0.1dB max.
6. Slider noise: less than 47mV(by method of JIS C 6443)
7. Insulation resistance: 100MΩ min. at 500V D.C.
8. Dielectric strength: Units shall be designed to withstand 500V A.C. 50Hz R.M.S. between resistance element and case for a period of one minute without damage or arcing
9. Gang error :

Nominal total resistance value	Gang error
R ≧ 50 kΩ	3 dB max. between -70 less than -60 dB 2 dB max. between -60 ~ 0 dB
50 kΩ > R ≧ 20 kΩ	3 dB max. between -60 less than -40 dB 2 dB max. between -40 ~ 0 dB
20 kΩ > R ≧ 10 kΩ	3 dB max. between -60 ~ 0 dB

Measure between R1&R2

$$\left(\frac{\text{term 1-2 output V}}{\text{term 1-3 in out V}}\right)$$

CLASS NO. | TITLE **SPECIFICATIONS**

MECHANICAL

1. Total rotation angle: 300° ± 3°
2. Operation torque: 80~350gf·cm(Rotational speed at 60°/sec., at 20°C)
3. Shaft end stop strength: 9kgf·cm min.
4. Resistance to soldering heat: After soldering (less than 350°C and quicker than 5 seconds)there shall be no evidence of poor contact between resistance element and terminals, or any physical damages as a result of the test

5. Bushing nut tightening strength:
   Tightening torque to be no greater than 15 kgf·cm.
   *Pay attention otherwise the strength may not be assured.
6. Shaft push / pull strength:
   No damages with an application of push or pull force 10kgf for 10 seconds

ENDURANCE

1. Rotational life: 15,000 cycles min.

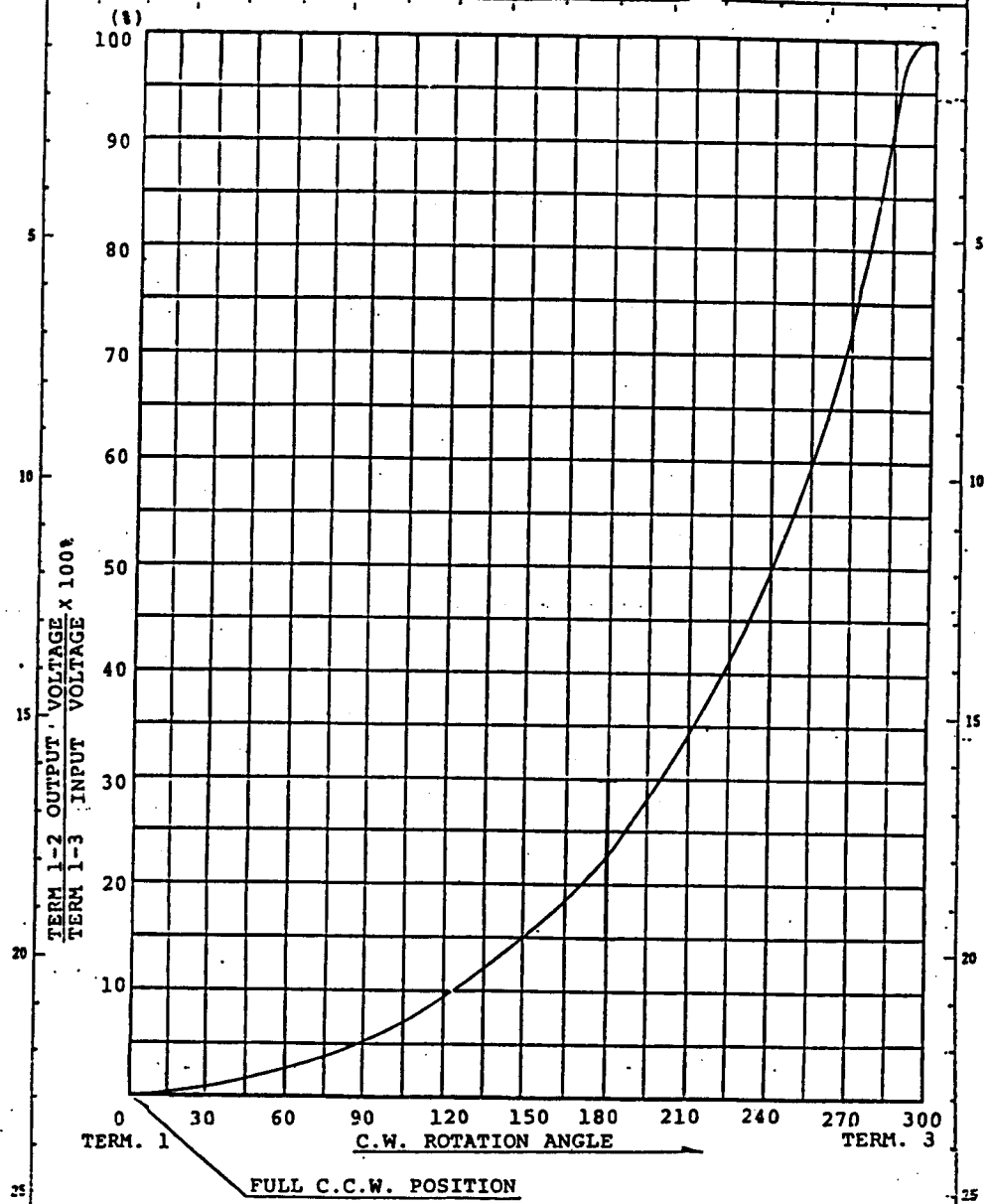
NOTE

1. The items except above mentioned items shall meet or exceed JIS C 6443.

					ALPS ELECTRIC CO., LTD.			
					APPD. Dec. 2 '93	CHKD. Dec. 1, '93	DSGD. Nov. 19, '93	TITLE
Engineering SY3IB	Nov. 29, '93 DATE	K.S APPD	T.Y CHKD	S.S DSGD	Y. Yamamoto			DOCUMENT NO. 4K272A-200

A

ALPS ELECTRIC CO., LTD.



At 180° C.W shaft rotation from full C.C.W position voltage percent shall fall within the limits of 15~30 percent.

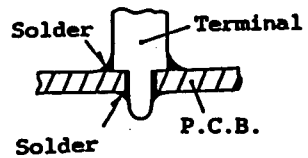
SYMB.	DATE	APPD.	CHKD.	DSGD.
	May 31'85	M.I	T.K	S.S

APPD	CHKD.	DSGD.	NAME
May 31.'85	May 30'85	May 29'85	RESISTANCE TAPER
M Inoue	T. Kumagai	S Ishii	HSA02

CLASS NO. | TITLE

Caution for soldering

Please avoid soldering on upper surface of P.C.B. as shown.



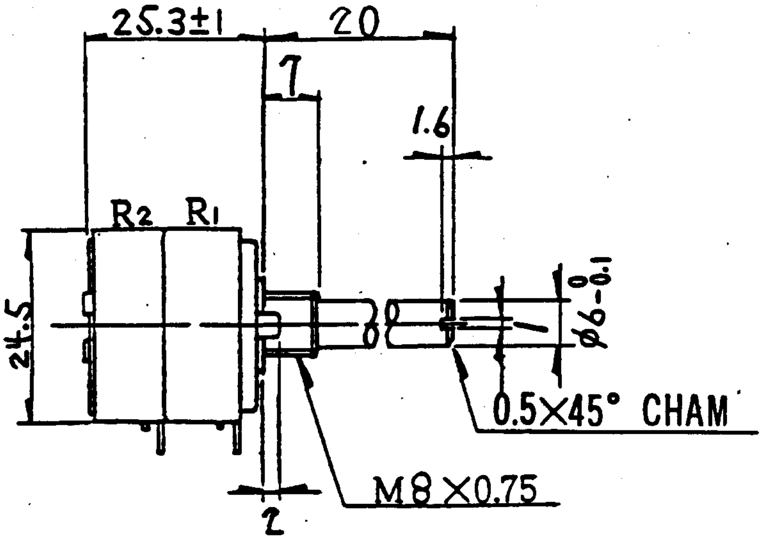
SYMB.	DATE	APPD.	CHKD.	DSGD.
		89.8.-1 大谷	89.8.-1 浅田	89.8.-1 [illegible]

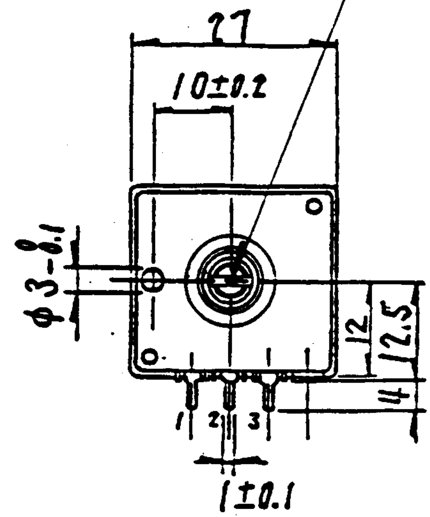
ALPS ELECTRIC CO., LTD.

TITLE —

DOCUMENT NO. — (1)

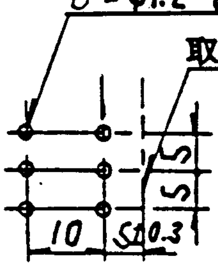
SHAFT SLOT IS OPTIONAL ANGLE
スリ割角度は任意とする。





P.W.B.MOUNTING DETAIL
TOLERANCE ±0.1
VIEWED FROM MOUNTING SIDE
取付穴寸法図
許容差±0.1（挿入側より）

6-φ1.2 +0.2/0 HOLES
取付面 MOUNTING SURFACE



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
角度 ANGULAR DIMENSION	±5°

部番	名称	材料	規格	処理	22.6g 3HB1A4

記号	年月日	承認	照査	設計
	・・			
	・・			
	・・			
	・・			
	・・			

三角法	単位 mm	尺度	
承認 W設1 56.4. 大谷	照査 W設1 56.4.22	設計 W技設 56.4.21 佐々木	図名 1軸2連 小型 ディテントVR組立図
			図番 -K272A000F

59.1.20

アルプス電気株式会社 （A4・図面用紙）

0049 A4 54.7. 10,000 OR

Customer : ALPS ELECTRIC EUROPA GmbH

No. F3861062M

Date : Nov. 18, 1994

Attention :

Your ref. No :

Your Part. No : STRK27102

SPECIFICATIONS

ALPS' :

MODEL RK27112A0 (20kAX2)

Spec. No. :

Sample No. : F3861062M

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RECEIVED
By. Date

Signature

Name

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ALPS ELECTRIC CO., LTD.

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

DSG'D Y. Saito

APP'D M. Sato

ENG. DEPT. DIVISION

Sales

No. F3861062M

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DATE CODE, RESIST. VALUE, TAPER

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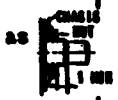

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NOTE

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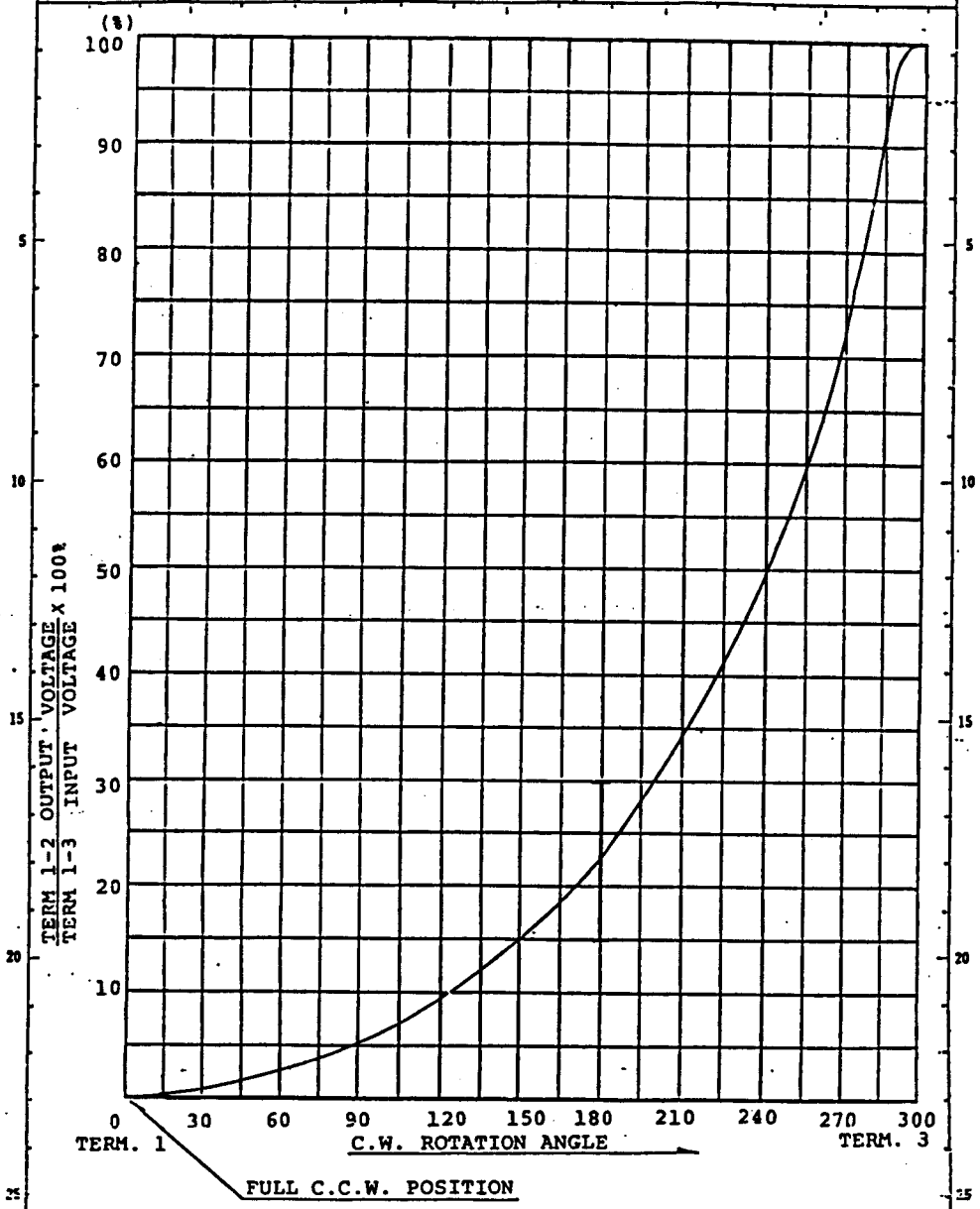
					ALPS ELECTRIC CO., LTD.		
					APPD. Dec.2'93	CHKD. Dec.1'93	DSGD. Nov.19'93	TITLE
Original SY51B	Nov.29'93 DATE	K.S APPD	T.Y CHKD	S.S DSGD	S.Yamazaki			DOCUMENT NO. 4K272A-200

A

D

ALPS ELECTRIC CO., LTD
1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JA.



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SYMB.	DATE	APPD.	CHKD.	DSGD.	APPD	CHKD.	DSGD.	NAME
					May.21.'85	May 30'85	May 29.'85	RESISTANCE TAPER
A	May 31.'85	M.I	T.K	S.S	M Inoue	T. Kumagai	S Sasaki	HSA02

CLASS.NO. | TITLE

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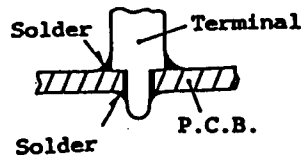


SYMB.	DATE	APPD.	CHKD.	DSGD.	APPD.	CHKD.	DSGD.	TITLE
					89.8.-1 大谷	89.8.-1	89.8.-1	—

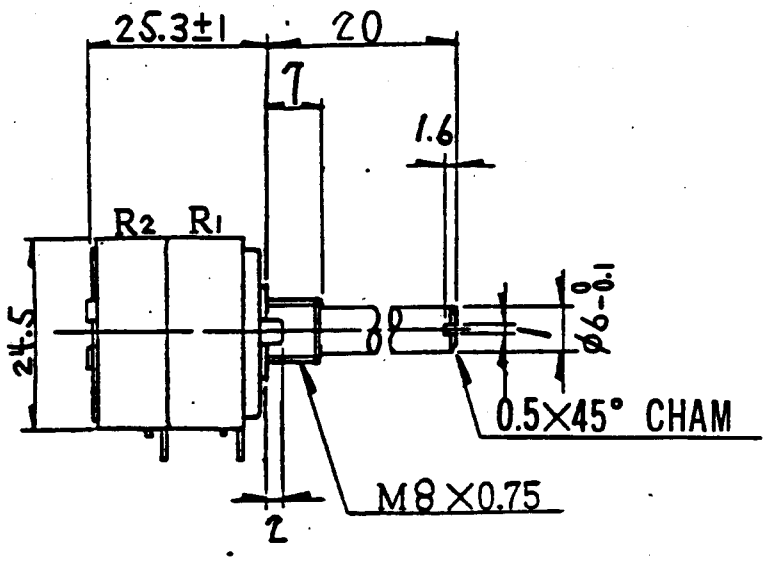
ALPS ELECTRIC CO., LTD.

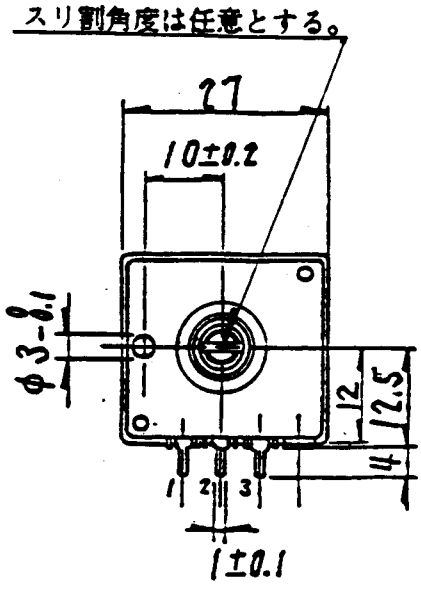
DOCUMENT NO. — (1)

(規格・仕様書用紙) W7306 A4 '89.2. 2,000 枚

SHAFT SLOT IS OPTIONAL ANGLE

スリ割角度は任意とする。





P.W.B.MOUNTING DETAIL

TOLERANCE ±0.1

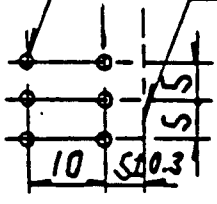
VIEWED FROM MOUNTING SIDE

取付穴寸法図

許容差±0.1（挿入側より）

6-φ1.2 +0.2 0 HOLES

取付面 MOUNTING SURFACE



許容差の指定なき寸法の公差	
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L≦10	±0.3
10<L<100	±0.5
100≦L	±0.8
角度, ANGULAR DIMENSION	±5°

部番	名称	材料	規格	処理	22.6.8 3HB1A4

記号	年月日	承認	照査	設計

三角法 | 単位 mm | 尺度 1/1

承認 W設1 56.4.20 大倉

照査 W設1 56.4.22 [illegible]

設計 [illegible] 56.4.21 佐々木

図名 1軸2連 小型 ディテントVR組立図

図番 -K272A000F 59.1.20

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