

ATT James Scott

Customer:

No. KX-97-1796

Date: Feb. 19, 1997

Attention:

Your ref. No.:

Your Part. No: 29 0016 - 11917A41

## SPECIFICATIONS

ALPS' :

MODEL — 29 0016 —

Spec. No. :

Sample No. : W1011782M

RECEIPT STATUS

RECEIVED

Bx. Date

Signature

Name

Title

DELTRON UK

ROXBURGH HOUSE

FOXHILLS INDUSTRIAL PARK

SCUNTHORPE

NORTH LINCOLNSHIRE

DN15 3QJ

ALPS ELECTRIC CO., LTD.

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

DSG'D M. Minura

APP'D G. Ohya

ENG. DEPT. DIVISION

Sales

## SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RK09K1130 POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

W1011762M  
RK09K1130G

3. MARKING

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

4. REMARKS

• NOTES

- METHOD OF MARKING  
TO BE STAMPED WITH BLACK INK OR LASER MARKING
- This unit uses polycarbonate. To be careful for using this unit in such violent gas atmospheric condition as ammonia, amine, alkaline aqueous solution, aromatic hydrocarbon, keton, ester, alkyl hydrocarbon, etc.

# SPECIFICATIONS

## ELECTRICAL

1. Total resistance :  $10\text{k}\ \Omega \pm 20\%$
2. Rated power : 0.05 W
3. Rated voltage :

The rated voltage shall be the voltage of D.C. or A.C. (commercial frequency, effective value) corresponding to the rated power (dissipation), and be obtained from the following formula. When the obtained rated voltage exceeds the maximum working voltage given in the following, however, the maximum working voltage of the following shall be the rated voltage.

$$E = \sqrt{P \cdot R} \quad (\text{V})$$

Where E : Rated voltage (V)

P : Rated power (dissipation) (W)

R : Nominal total resistance ( $\Omega$ )

Maximum working voltage : 50 V A.C. . 20 V D.C.

4. Residual resistance between terminals

between term. 1&2, term. 2&3 :  $300\Omega$  max.

5. Sliding noise : Less than 100 mV measured by method of JIS C 6443.

6. Insulation resistance : Greater than  $100\text{M}\Omega$  measured by D.C. 250V.

7. Withstand voltage: More than 1 minute with an application of A.C. 250 V.

8. Taper : B

## MECHANICAL

1. Overall rotational angle :  $280^\circ \pm 5^\circ$

2. Operation torque :  $10\sim 80\text{ gf}\cdot\text{cm}$

3. Shaft end stop strength :  $3\text{ Kgf}\cdot\text{cm}$  MIN.

4. Starting torque :  $100\text{ gf}\cdot\text{cm}$  MAX.

5. Resistance to soldering heat :

After soldering (Less than  $300^\circ\text{C}$  and quicker than 3 seconds) there shall be no evidence of poor contact between resistance element and terminals, or any physical damages as a result of the test.

6. Play of shaft :

The resistor shall be mounted by soldering the mounting base on the panel, and a side thrust of  $250\text{ gf}\cdot\text{cm}$  at the end of the shaft shall be applied, then the total play of the shaft shall not exceed  $0.5 \times L / 20\text{ mm}$  p-p.

7. Eccentricity of shaft :

The eccentricity of the root of shaft shall not exceed 0.35mm against the center of the mounting position.

8. Robustness of shaft against end thrust :

The shaft shall withstand against end thrust of not less than 5 Kgf for 3 seconds.

9. Robustness of shaft against side thrust :

The shaft shall withstand against side thrust of not less than 4 Kgf·cm for 3 seconds on the end of the shaft at right angles to the axis of the shaft after mounting the resistor by soldering.

## ENDURANCE

1. Rotational life : 5,000 cycles min.

## NOTE

1. The items except above mentioned items shall meet or exceed JIS C 6443.
2. Operating temperature :  $-10^\circ\text{C} \sim +60^\circ\text{C}$ .
3. Storage temperature :  $-30^\circ\text{C} \sim +70^\circ\text{C}$ .

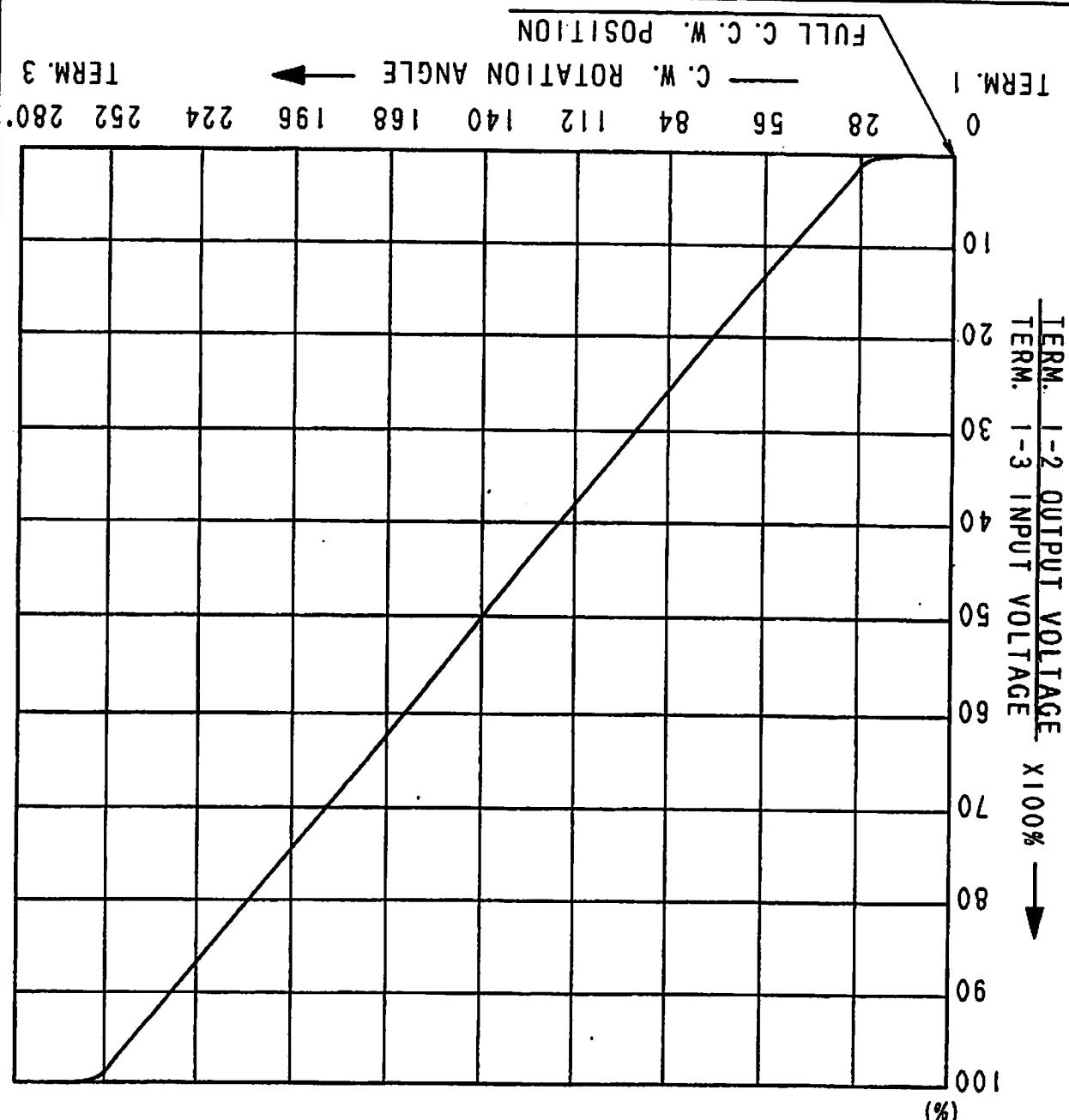


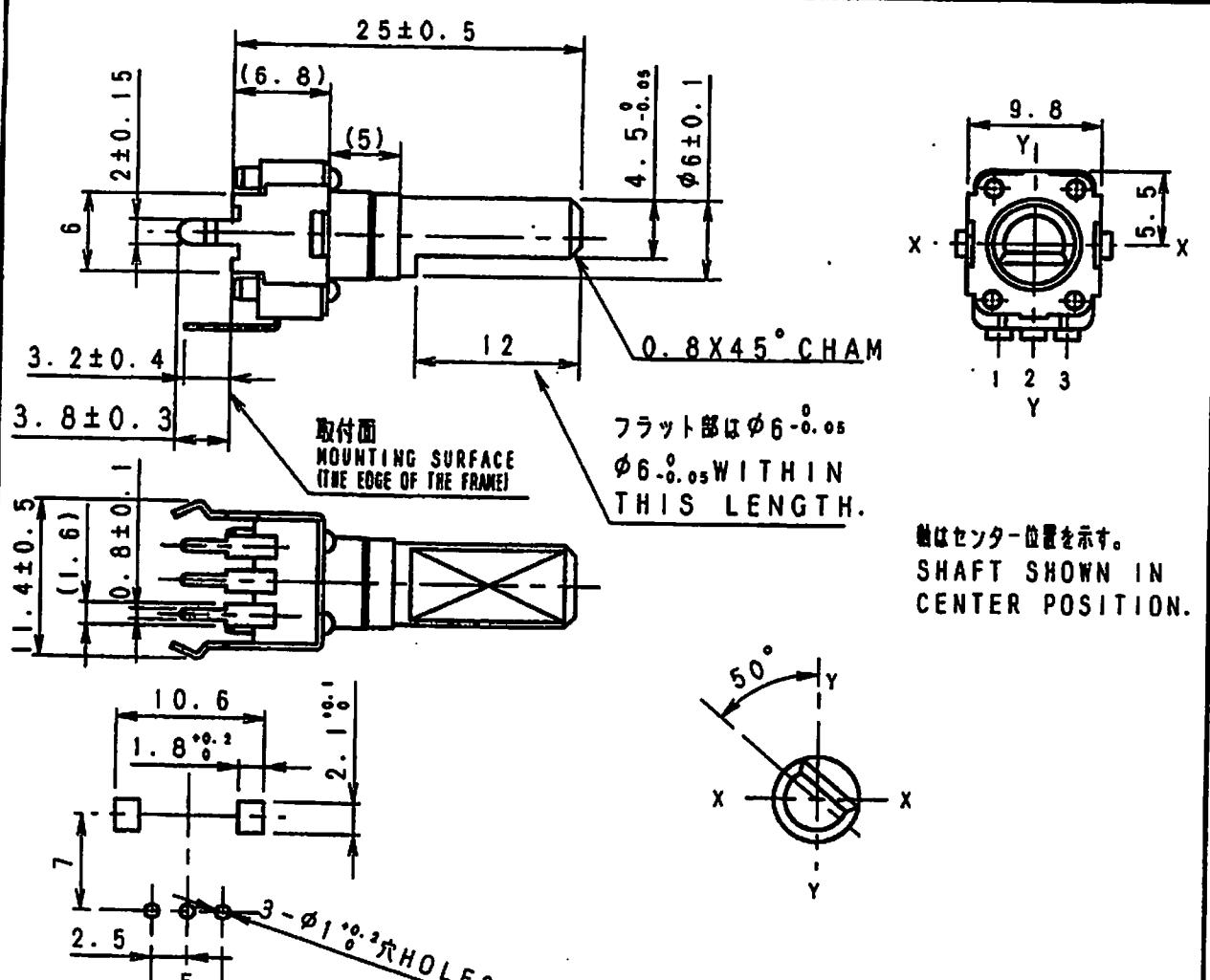
**ALPS ELECTRIC CO., LTD.**

SYMB	DATE	APPD.	CHKD.	DSGD.	TITLE	DOCUMENT NO.
		Sep. 13. '96	Sep. 13. '96	Sep. 13. '96		
		S. Aizawa	M. Saloh	Y. Saitoh		W1011762M

SYMB	DATE	APPD	CHKD	DSGD	K. Maeda	K. Sasaki	K. Suzuki	W1011762M
								DOCUMENT NO.
					101.13.93	101.13.93	101.13.93	RESISTANCE TAPER (B)

AT 140° C. W. SHAFT ROTATION FROM FULL C. C. W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 40~60 PERCENT.





端子取付穴寸法図 (挿入側より見た図)  
(許容差士0.1)  
MOUNTING HOLE DETAIL  
(TOLERANCE ±0.1)  
VIEWED FROM MOUNTING SIDE

軸は反時計方向に回し切った状態を示す。  
SHAFT SHOWN IN  
FULL C. C. W. POSITION.

製品重量: 1.8 g  
NET WEIGHT

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

PART NO.	NAME	MATERIAL NAME / CODE	SHAFT COLOR : BLACK (B)	FINISH
SYMB	DATE	APPD CHKD DSGD	ALPS ELECTRIC CO., LTD. DSGD. 1-製造日 Y. Saitoh 96-09-13 CHKD. Y. Saitoh 96-09-13 APPD. S. Aizawa 96-09-13	SCALE 2 : 1 TITLE 9形1軸単速絶縁軸VR UNIT III DOCUMENT NO. F18 K091C0Z4G