

Customer :

No. KX-97-1787

Date : Feb. 19, 1997

Attention: _____

Your ref. No: _____

Your Part. No: _____

29 0001

SPECIFICATIONS

ALPS :

MODEL _ 29 0001 _____

Spec. No. : _____

Sample No. : W1011752M

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 H. Kimura

APP'D Y. Ohya

ENG. DEPT. DIVISION

Sales _____

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RK09K1110 . POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

W1011752M
K091B0Z94

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 : $10k \Omega \pm 20\%$
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.

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

Where E : Rated voltage (V)

P : Rated power (dissipation) (W)

R : Nominal total resistance (Ω)

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

4. Residual resistance between terminals
between term. 1&2, term. 2&3 : 300 Ω max.
5. Sliding noise : Less than 100 mV measured by method of JIS C 6443.
6. Insulation resistance : Greater than 100 M Ω 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 : 10~80 gf·cm
3. Shaft end stop strength : 3 Kgf·cm MIN.
4. Starting torque : 100 gf·cm MAX.
5. Resistance to soldering heat :
After soldering (less than 300°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 legs on the panel, and a side thrust of 250 gf·cm at the end of the shaft shall be applied, then the total play of the shaft shall not exceed $0.5 \times L / 20$ 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.

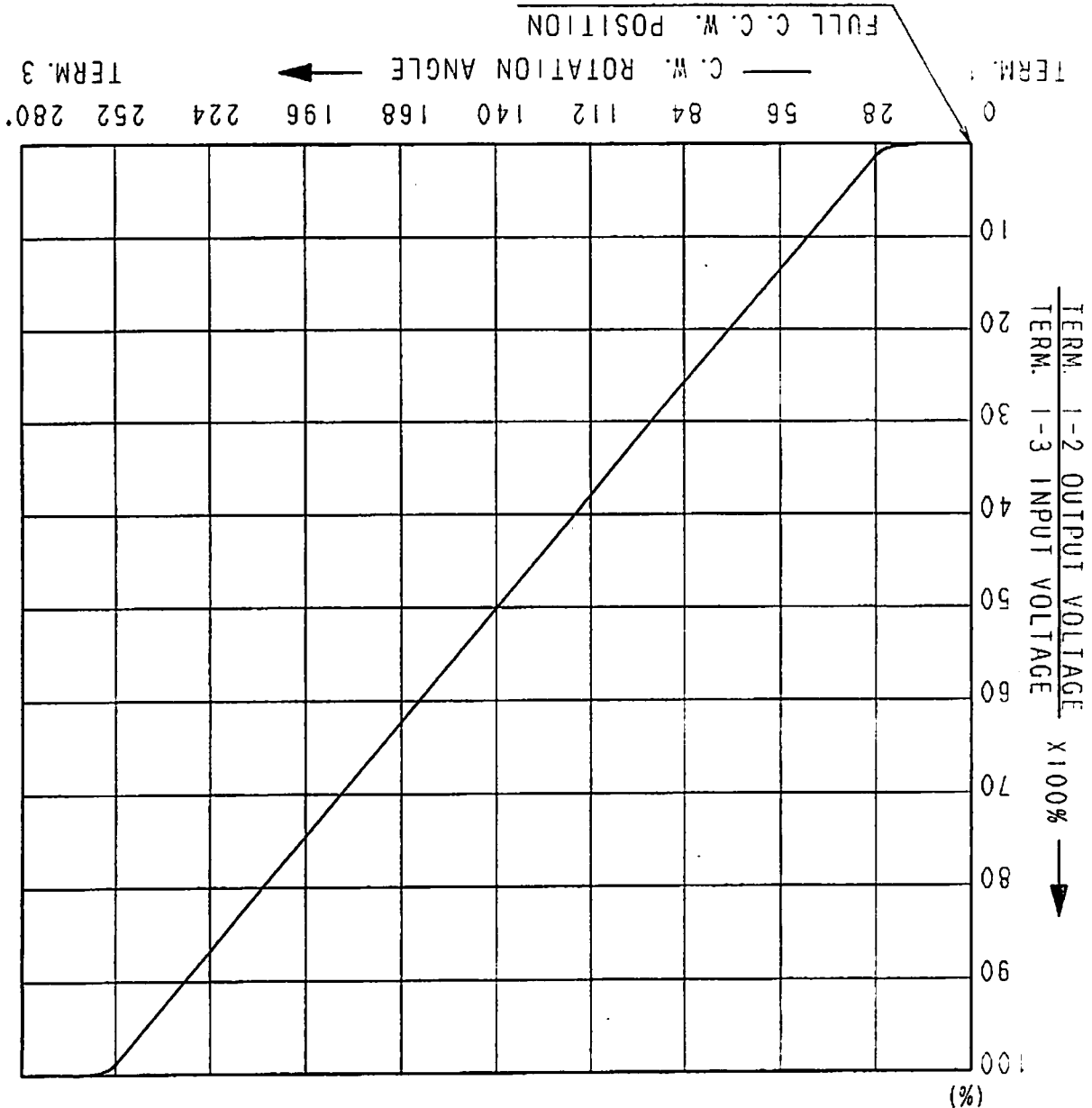
NOTE

1. The items except above mentioned items shall meet or exceed JIS C 6443.
2. Operating temperature : -10°C~+60°C. 3. Storage temperature : -30°C~+70°C.

					ALPS ELECTRIC CO., LTD.			
					APPD.	CHKD.	DSGD.	TITLE
					Sep. 13. '96	Sep. 13. '96	Sep. 13. '96	
					S. Aizawa	M. Saloh	Y. Sailoh	DOCUMENT NO.
					W1011752M			
SYMB	DATE	APPD	CHKD	DSGD				

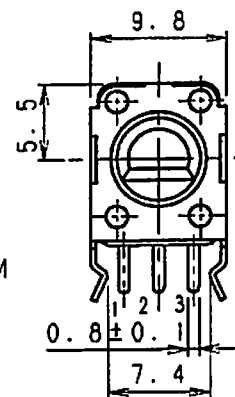
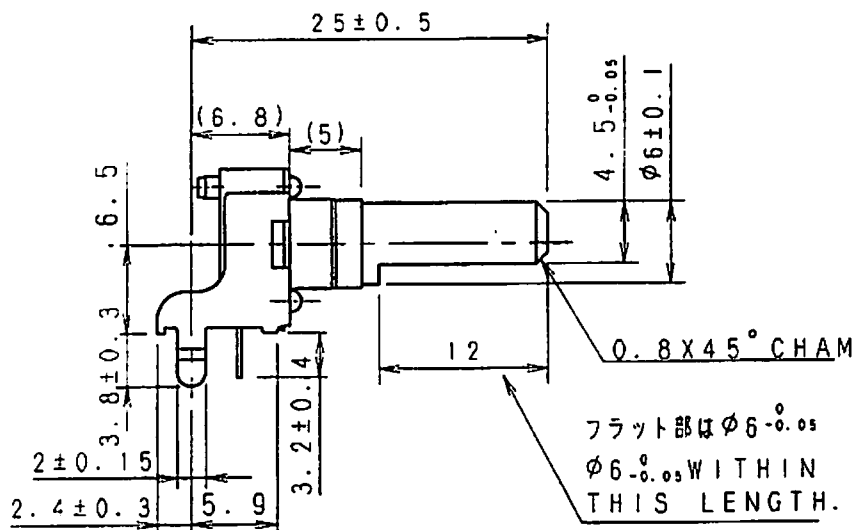
SYMB	DATE	APPD	CHKD	DSGD	K. Masami	K. Sasaki	K. Suzuki	DOCUMENT NO.	W1011752M	KX09
					Jul. 13, '93	Jul. 13, '93	Jul. 13, '93	NAME	RESISTANCE TAPER (B)	
					APPD.	CHKD.	DSGD.			

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

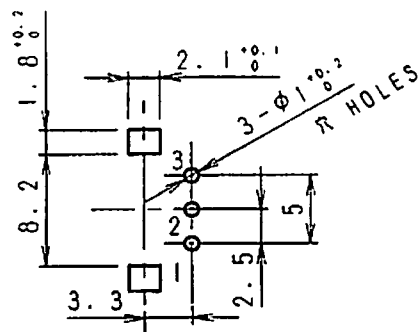


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1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN

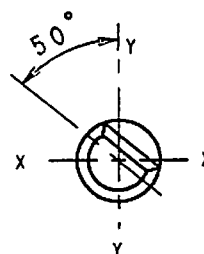




軸はセンター位置を示す。
SHAFT SHOWN IN
CENTER POSITION.



端子取付穴寸法図 (挿入側より見た図)
(許容差 ± 0.1)
MOUNTING HOLE DETAIL
(TOLERANCE ± 0.1)
VIEWED FROM MOUNTING SIDE
板厚 t = 1.6



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: 1.7 g
NET WEIGHT

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

PART NO.		NAME		MATERIAL NAME / CODE		SHAFT COLOR : BLACK (B)	
SYMB		DATE		APPD		UNIT	
				S. Aizawa 96-09-13		III III	
ALPS ELECTRIC CO., LTD.						TITLE	
DSGD. I-設計						SCALE	
Y. Saitoh 96-09-13						2 : 1	
CHKD.						W1011752M	
M. Satoh 96-09-13						9 形 1 軸 単 邊 絶 縁 軸 VR	
APPD.						DOCUMENT NO.	
S. Aizawa 96-09-13						F24	
K091B0Z94							