

Att James Scott

Customer:

No. KX-97-1796

Date: Feb. 19, 1987

Attention:

Your ref. No:

Your Part. No: 29 0016 - 1191741

SPECIFICATIONS

ALPS:

MODEL 29 0016

Spec. No. :

Sample No. : W1011762M

RECEIPT STATUS
 RECEIVED
 By. Date _____
 Signature _____
 Name _____
 Title _____

DELTRON UK
 ROXBURGH HOUSE
 FOXHILLS INDUSTRIAL PARK
 SCUNTHORPE
 NORTH LINCOLNSHIRE
 DN15 8QJ

ALPS. ELECTRIC CO., LTD.

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

DSG'D A. Hamura

APP'D Y. Ohya

ENG. DEPT. DIVISION

Sales

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RK09K1130 . POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

W1011762M
R0910024G

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
and atmospheric condition as ammonia, amine, alkaline aqueous solution, aromatic
hydrocarbon, keton, ester, alkyl hydrocarbon, etc.

SPECIFICATIONS

ELECTRICAL

1. Total resistance : 10 k Ω \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° \pm 5°
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 × 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

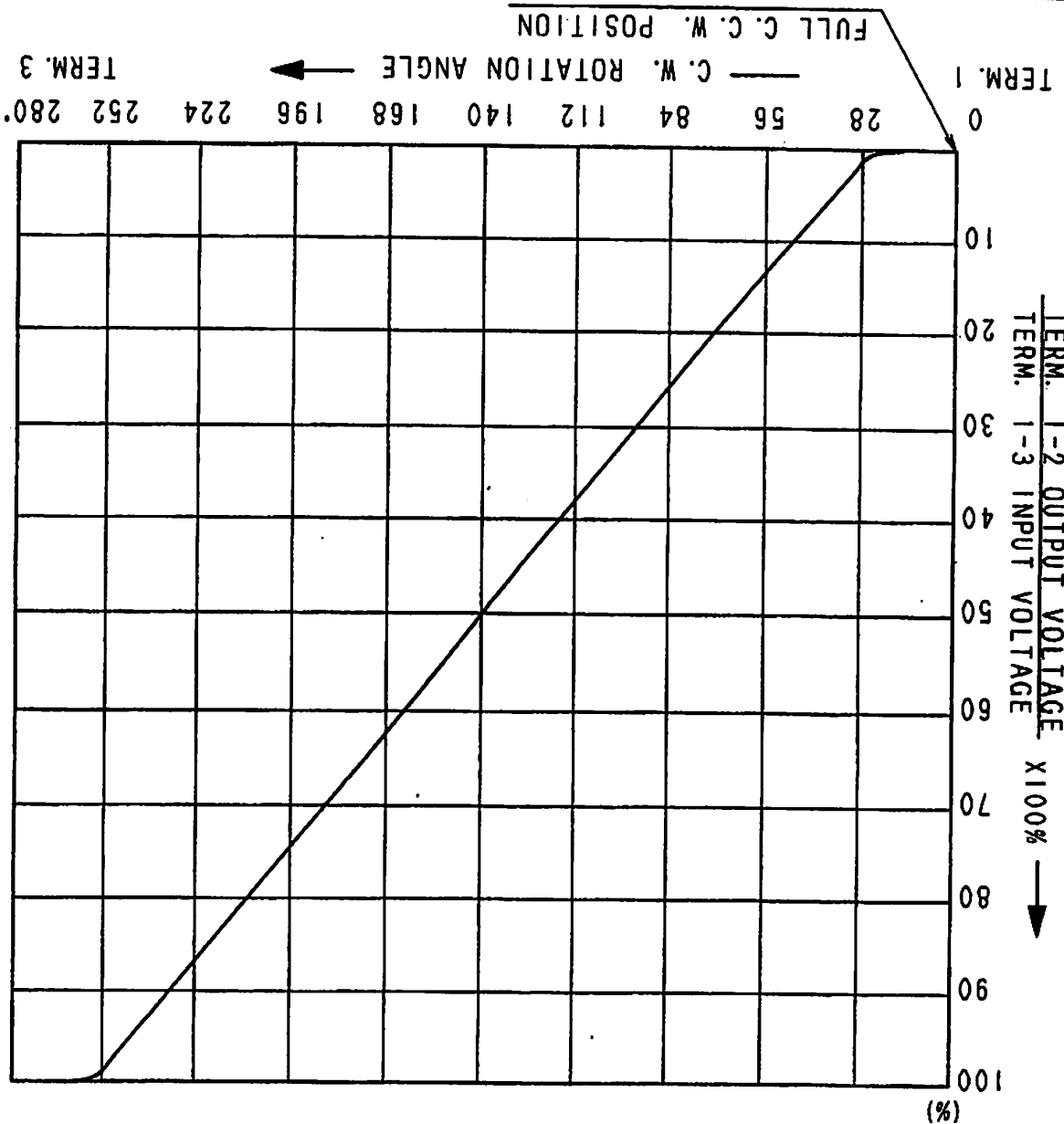
1. The items except above mentioned items shall meet or exceed JIS C 6443.
2. Operating temperature : -10°C ~ +60°C. 3. Storage temperature : -30°C ~ +70°C.

 ALPS ELECTRIC CO., LTD.				
	APPD.	CHKD.	DSGD.	TITLE
	Sep. 13. '96	Sep. 13. '96	Sep. 13. '96	
	S. Aizawa	M. Satoh	Y. Saitoh	DOCUMENT NO.
				W1011762M
SYMB	DATE	APPD	CHKD	DSGD

KX09

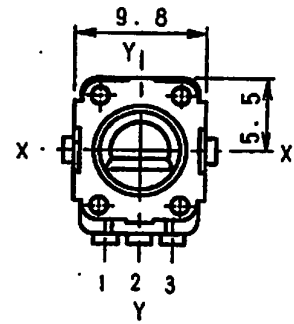
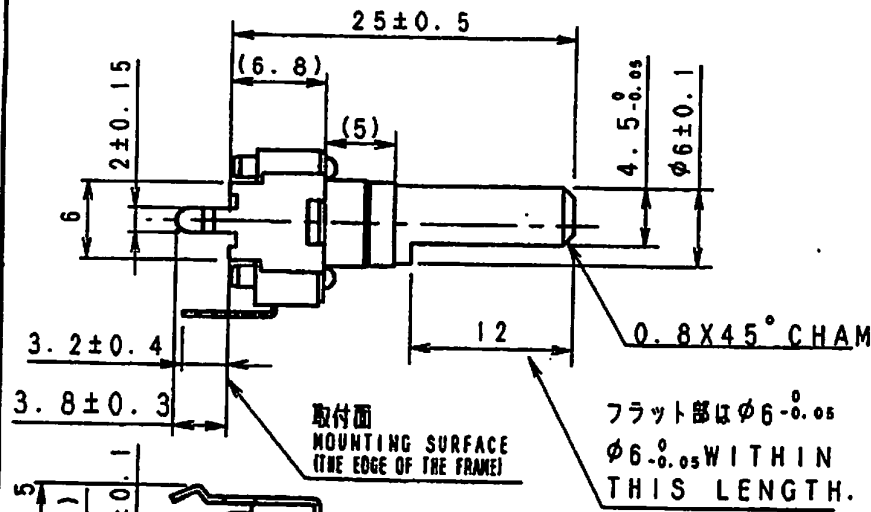
SYMB	DATE	APPD	CHKD	DSGD	APPD.	CHKD.	DSGD.	NAME	RESISTANCE TAPER (B)	DOCUMENT NO.	W1011762M
					Jan. 13, '93	Jan. 13, '93	Jan. 13, '93	K. Hasegawa			
					Jan. 13, '93	Jan. 13, '93	Jan. 13, '93	K. Sasaki			
					Jan. 13, '93	Jan. 13, '93	Jan. 13, '93	K. Suzuki			

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

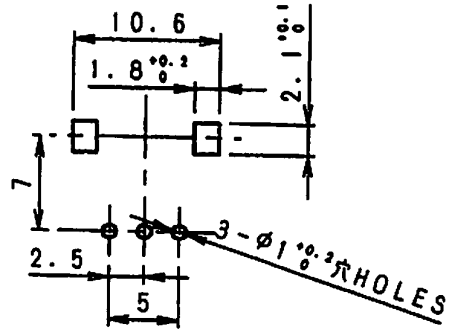
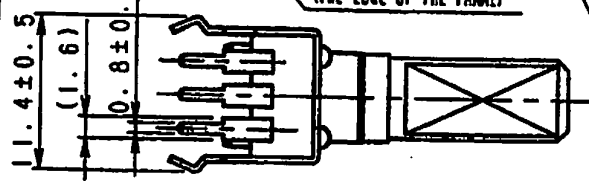


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1-7 YUKIGAYA OTSUKA-CHO OIA-KU TOKYO JAPAN

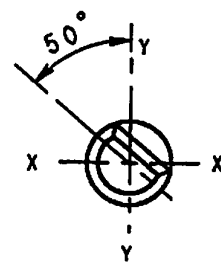




軸はセンター位置を示す。
 SHAFT SHOWN IN
 CENTER POSITION.



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



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	FINISH	SHAFT COLOR : BLACK (B)
ALPS ELECTRIC CO., LTD.				
DSGD. I-設計	Y. Saitoh	96-09-13	SCALE 2 : 1	WI011762M
CHKD.	Y. Satoh	96-09-13	TITLE	9形1軸単速絶縁軸VR
SYMB	DATE	APPD	UNIT	DOCUMENT NO. F18
		S. Aizawa	III III	K091C0Z4G