Customer:

No. KX-2003-6501

Date: Jun. 12, 2003

Attention:

Your ref. No:

Your Part. No:

SPECIFICATIONS

ALPS';

MODEL RK09K1130BGM (10k A)

Spec. No. :

Sample No. : FO734353M

RECEIPT STATUS
RECEIVED
By Date

Signature

Name

Title

ALPS ELECTRIC CO., LTD.

HEAD OFFICE
1-7, YUKIGAYA-OHTSUKA-CHO,
OHTA-KU, TOKYO 145-8501 JAPAN

DSG'D M. Sato

APP'D S. Sato

Sales

No. KX-2003-6501

SPECIFICATIONS

1.THIS SPECIFICATIONS APPLY TO RK09K1130BGM POTENTIOMETER.

2.CONTENTS OF THIS SPECIFICATIONS.

F0734353M
K091C0Z06

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.

·CAUTION

Regardless of the suggested applications of these products being introduced in the specifications, when using them for equipment and devices requiring a high degree of safety, respective manufacturers will please preserve safety of the planned equipment and devices by providing necessary protectve circuits and redundancy circuits and reconfirm if safety is being duly preserved.

Products being introduced in the specifications have been designed and manufactured for applications to ordinary electronic equipment and devices such as the AV equipment, electric home appliances, office machines and communications equipment. Consequently, when employing these products for applications requiring a high degree of safety and reliability such as the medical equipment, aviation and aircraft equipment, space equipment and burglar alarm equipment, the using manufacturers will please thoroughly study the proprieties of these products for the planned applications.

Although we are exerting our best efforts to maintain the quality of these products, we cannot guarantee that they will never cause short circuiting and open circuitry.
Therefore, when designing an equipment or device with whitch the priority is given to the safety, you will please carefully study the influences to the whole equipment of a single function failure of Potentiometers and Encoders in advance to make out a fail-safe design providing.

SPECIFICATIONS

ELECTRICAL

1. Total resistance : 10k Ω ±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.

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

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 : 300Ω max.
5. Sliding noise : Less than 100 mV measured by method of JIS C 6443.
6. Insulation resistance : Greater than 100 MΩ measured by D.C. 250V.
7. Withstand voltage: More than 1 minute with an application of A.C. 250 V.
8. Taper : A

MECHANICAL

1. Overall rotational angle : 280°±5°
2. Operation torque : 1~8mN·m (Rotational speed 60°/sec.)
3. Shaft end stop strength : No damage with an application of 0.3N·m.
4. Starting torque : 10mN·m 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. Then a side thrust of 25mN·m at the end of the shaft shall be applied, then the total play of the shaft shall not exceed 0.8 x L / 20 mm p-p.
(L:Shaft length)
7. Inclination of shaft :
The eccentricity of the root of shaft shall not exceed 0.35mm against the center of the mounting position.
8. Eccentricity of shaft :
The inclination of shaft shall be within 0.35mm to the center of shaft, which is parallel to the mounting surface.
9. Robustness of shaft against end thrust :
The shaft shall withstand against end thrust of 50N for 3 seconds.
10. Robustness of shaft against side thrust :
The shaft shall withstand against side thrust of 40N 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.

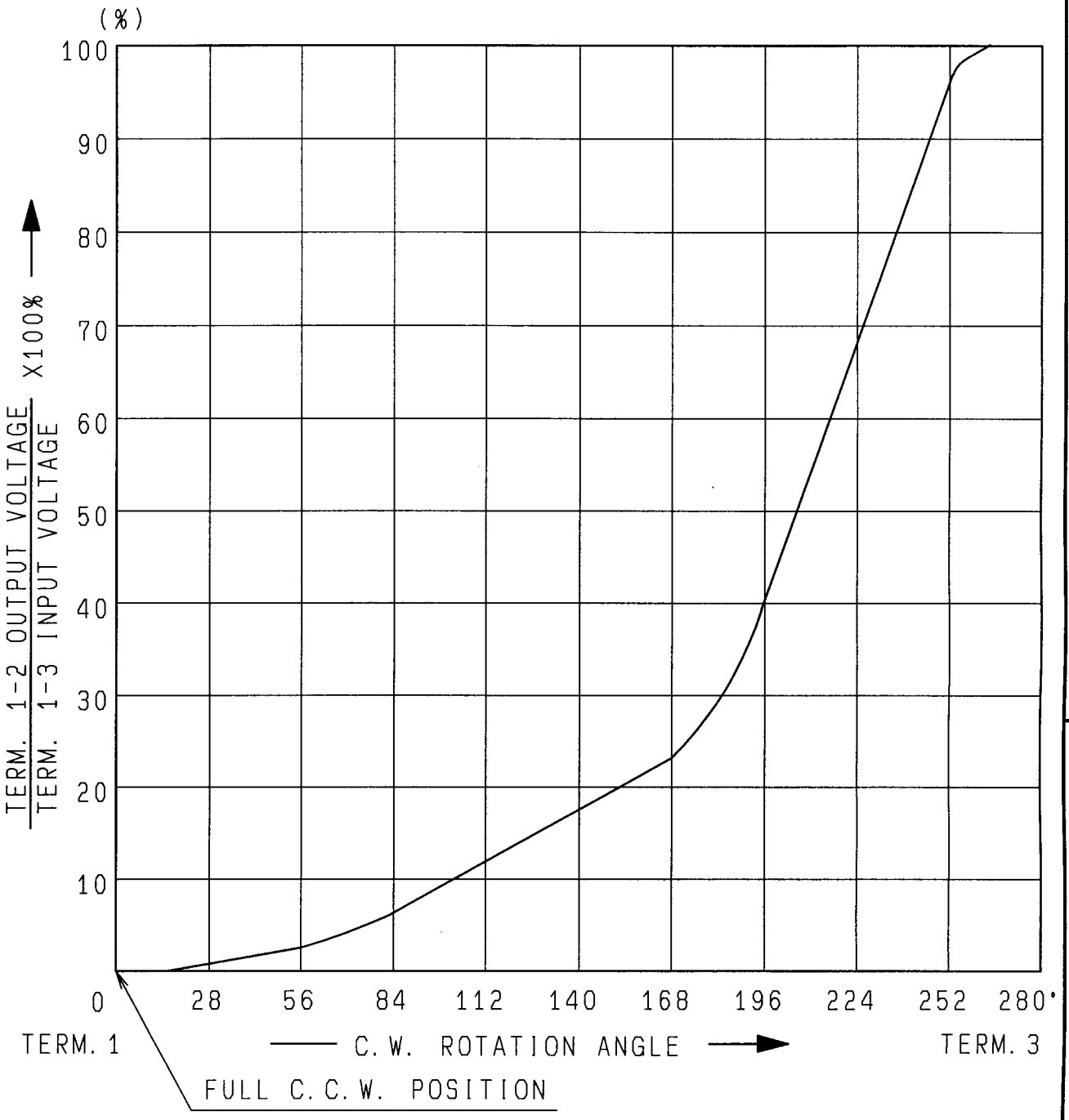
SYMB	DATE	APPD	CHKD	DSGD

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. F0734353M

KX

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



AT 140° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 10~25 PERCENT.

SYMB	DATE	APPD	CHKD	DSGD

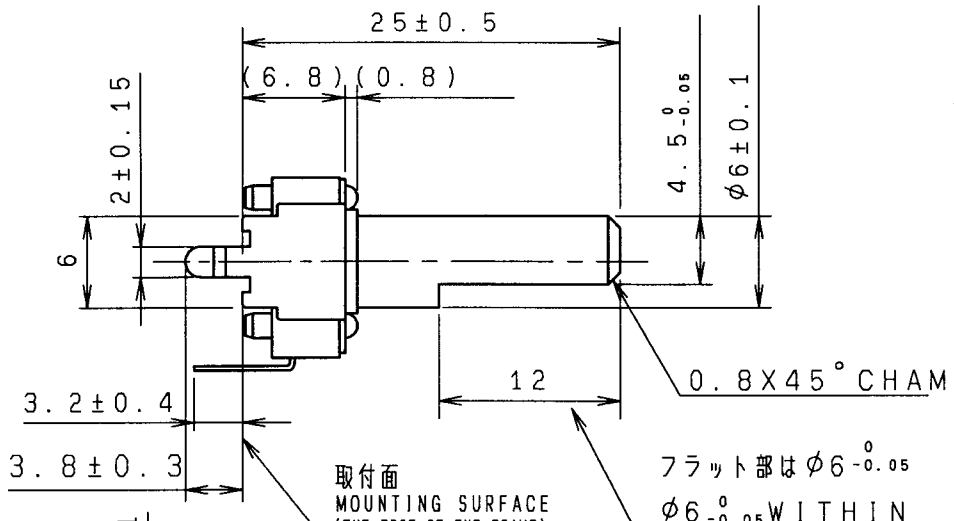
APPD.	CHKD.	DSGD.
Jul. 13, '93	Jul. 13, '93	Jul. 13 '93
K. Magami	K. Sasaki	K. Suzuki

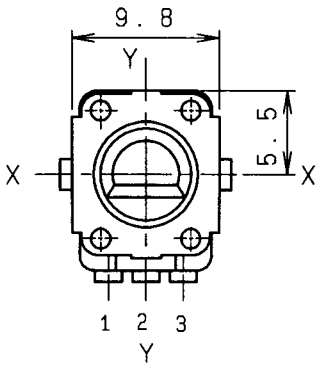
NAME: RESISTANCE TAPER (A)

DOCUMENT NO.: F0734353M

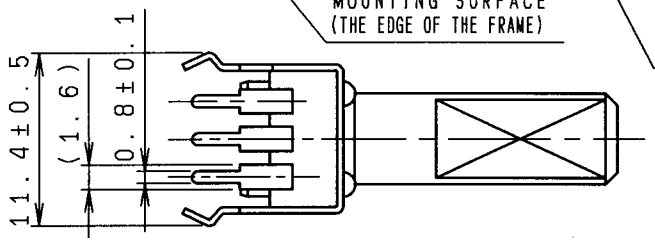
KX09

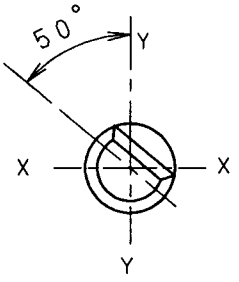
Format by S. Sakai

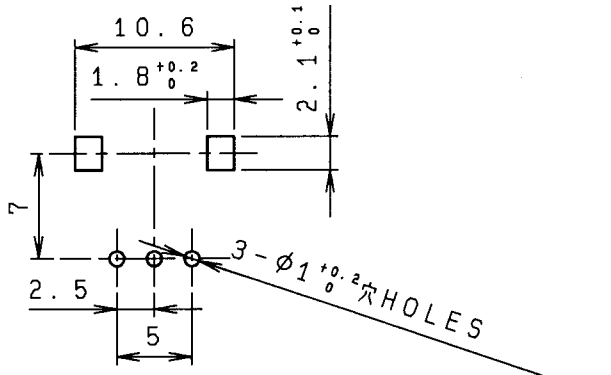




軸はセンター位置を示す.
SHAFT SHOWN IN
CENTER POSITION.



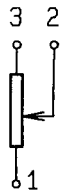




端子取付穴寸法図(挿入側より見た図)
(許容差±0.1)
MOUNTING HOLE DETAIL
(TOLERANCE±0.1)
VIWED FROM MOUNTING SIDE

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.

回路図
CIRCUIT



製品質量: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)

SYMB	DATE	APPD	CHKD	DSGD

ALPS ELECTRIC CO., LTD.

DSGD. 1-設計1課 Y. Saitoh 96-09-13	SCALE 2 : 1	NO. F0734353M	
CHKD. Y. Satoh 96-09-13		TITLE 9形1軸単連絶縁軸VR	
APPD. S. Aizawa 96-09-13	UNIT mm	DOCUMENT NO. K091C0Z06	F01

Unikeyic Electronics

Global Electronic Components Distributor

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ALPS ALPINE:

SKHUAME010 SKPMAME010 EC28A1560401 SKHMQKE010 SKRRABE010 RK1171110-F15-C0-B103 SKHHDHA010 SKPMDAE011 SPPH130400 RK09D1130C1B RK09D113F25C0A104 EC21A0950402 SCHA4B0419 SKHUQGE010 SKHUALE010 SPVQ850301 SSSS212901 UJ206026 RDC506002A RK09712200MY RS6011SP6004 SKPRAAE010 SKTHACE010 SPEF210101 SPPH110300 SKSGPCE010 EC12D1564402 RK09K1130A5R RK11K1140A4Q RKJXV122400R