Customer	:	No. KX-2003-6501				
	n: . No: t. No:	<u>Date: Jun. 12, 2003</u>				
	SPECIFICA	TIONS				
		ALPS'; RK09K1130BGM MODEL (10k A)				
		Spec. No.: Sample No.: F0734353M				
	RECEIPT STATUS RECEIVED By Date Signature Name Title					
	ELECTRIC CO., LTD. AD OFFICE IGAYA-OHTSUKA-CHO, KU, TOKYO 145-8501 JAPAN	DSG'D M, Sato				

24678

Sales

SPECIFICATIONS

- 1. THIS SPECIFICATIONS APPLY TO RKO9K1130BGM 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 protective 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 : 3000 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

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 toruque : 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

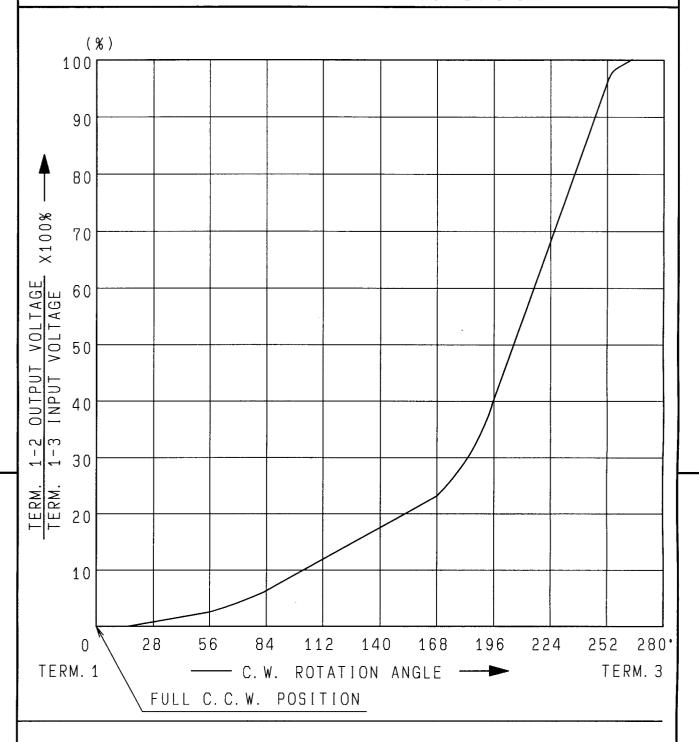
1. Rotational life : 5,000 cycles min.

- 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.

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						CHKD. <i>Sep. 13, '96</i>	DSGD. Sep. 13. '96	TITLE
SYMB	DATE	APPD	CHKD	DSGD	S. A i zawa			DOCUMENT NO. F0734353M

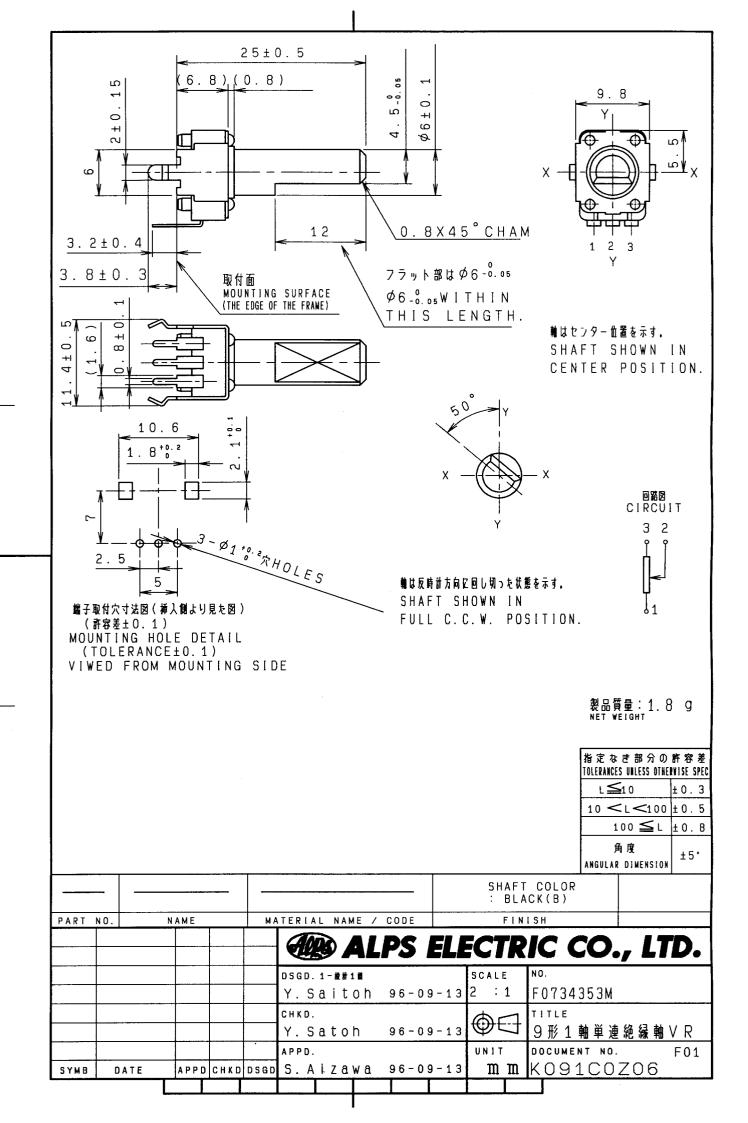


ALPS ELECTRIC CO., LTD 1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN



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

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