Customer: ALBS ALLTRON	IC	<u>No. FX-2002-6507</u>		
Attention: Your ref. No: Your Part. No: 40196		<u>Date: Apr. 17, 2002</u>		
SPEC	CIFICA	TIONS		
		ALPS'; RK11K1130A2X MODEL (10k B) Spec. No.: Sample No.: G6644111M		
RECEIV By <u>Da</u> Si				
ALPS ELECTRIC HEAD OFFICE 1-7, YUKIGAYA-OFOHTA-KU, TOKYO		DSG'D M, Sato		

Sales

24678

SPECIFICATIONS

- 1. THIS SPECIFICATIONS APPLY TO RK11K1130A2X POTENTIOMETER.
- 2. CONTENTS OF THIS SPECIFICATIONS.

G6644111M K111F0Z01

3.MARKING

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

4. REMARKS

· NOTES

•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%

0.05 W 2. Rated power

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 maxim<u>um wo</u>rking voltage of the following shall be the rated voltage.

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

E: Rated voltage (V) Where

> P : Rated power(dissipation) (W) R: Nominal total resistance (Ω)

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

4. Resistance taper : B

5. Residual resistance between term. 1&2,2&3 : 200 max.

6. Sliding noise : Less than 100 mV. (Measured by JIS C 6443)

7. Insulation resistance : More than 100 M Ω at 500V D.C.

8. Withstand voltage: 500V A.C. for one mimute.

MECHANICAL

1. Total rotational angle : 300°±5°

: 3~20 mN⋅m (Rotational speed 60°/sec.) 2. Rotational torque

3. Resistance to soldering heat : After soldering (Less than 300°C and within 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.

- 4. Stopper strength: No damage with an application of 0.5N·m.
- 5. Robustness of shaft against end thrust and pull force : with the potentiometer mounted, no damage with 80N of puah and pull
- 6. Robustness of shaft against side thrust : with the potentiometer mounted, no damage with 30N of thrust force to the shaft top.
- 7. Shaft play

The resistor shall be mounted by soldering the mounting legs on the panel. when a side thrust of 50mN·m shall be applied at the end of the shaft. the total shaft play shall not exceed 0.7XL / 20mm p-p.(L : shaft length)

- 8. The inclination of shaft shall be within 0.35 mm to the center of shaft, which is parallel to the mounting surface.
- 9. Eccentricity of shaft: The eccentricity of the root of shaft shall not exceed 0.35mm to the center of the mounting position.

ENDURANCE

1. Rotational life : 15,000 cycles min.

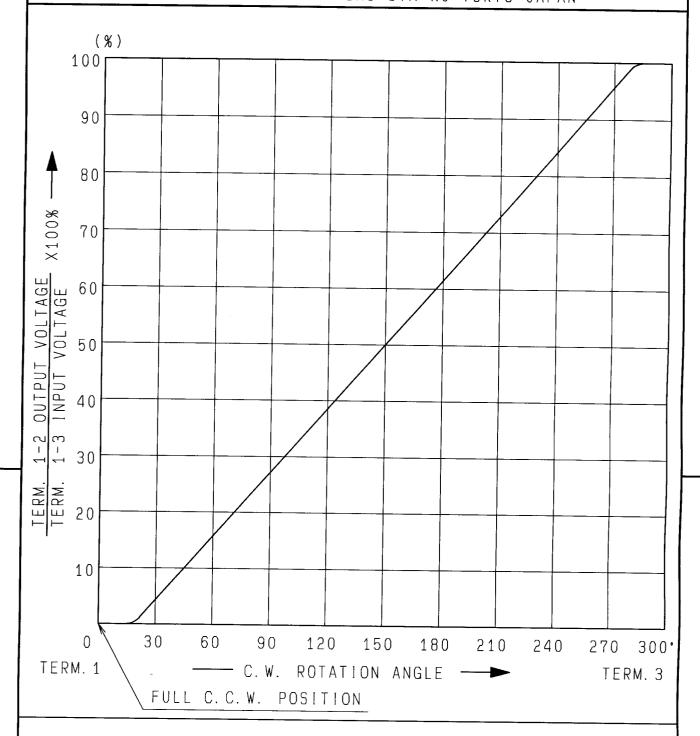
NOTE

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

					AM ALPS ELECTRIC CO., LTD.						
					APPD. oct. 01, '92	CHKD. oct. 01, '92	oct. 01, '92	TITLE G6644111M DOCUMENT NO.			
SYMB	DATE	APPD	CHKD	DSGD	S. Alzawa	M. Satoh	5, Sugawara	DOCUMENT NO.			



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



AT 150° 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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