Customer: ALGE GERMAN DISTRIBUTER	No. FX-2003-7208				
Attention: Your ref. No: Your Part. No: 402072	Date: Oct. 10, 2003				
SPECIFICA	TIONS				
	ALPS'; RK11K1120A4Z MODEL (10k B) Spec. No.: Sample No.: F1013781M				
RECEIPT STATUS RECEIVED By Date Signature Name Title					
ALPS ELECTRIC CO., LTD. HEAD OFFICE 1-7,YUKIGAYA-OHTSUKA-CHO,	DSG'D M, Lato APP'D S. Sato				

Sales

24678

SPECIFICATIONS

- 1. THIS SPECIFICATIONS APPLY TO RK11K1120A4Z POTENTIOMETER.
- 2. CONTENTS OF THIS SPECIFICATIONS.

F1013781M K111G0Z30

3.MARKING

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

4. REMARKS

- ·FURNISH PACKAGE NUT: 1, WASHER: 1
- 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%

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.

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

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 0.6 N·m.
- 5. Robustness after soldering resistor shaft against end thrust and pull force

With the potentiometer mounted, no damage with 80N of puah and pull force.

6. Robustness at shaft against side thrust :

With the potentiometer mounted, no damage with 30N of thrust force to the shaft top.

7. Shaft play

After installing the potentiometer, 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/30 mm p-p. (L:Shaft length)

8. Bushing nut tightening strength: Tightening torque to be no greater than 1N·m.

Pay attention otherwise the strength may not be assured.



ENDURANCE

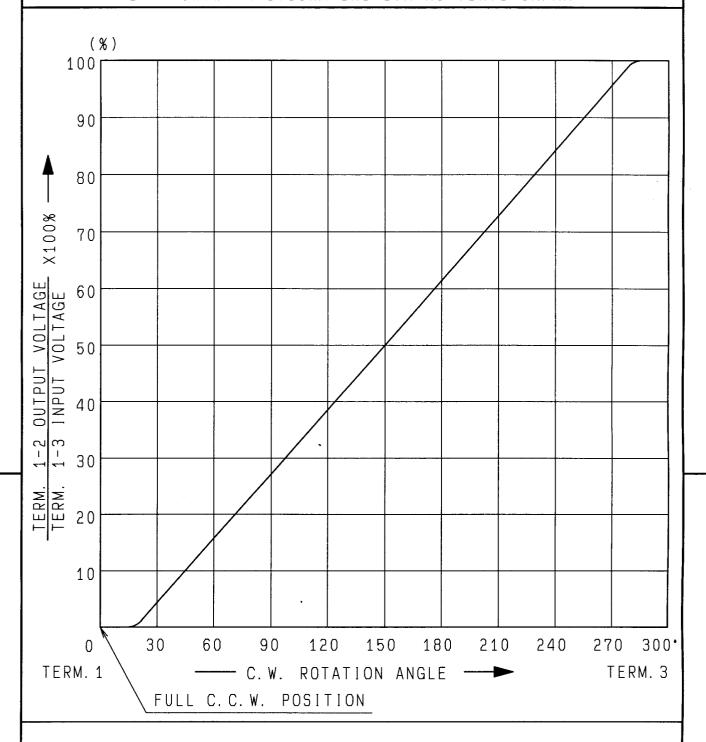
1. Rotational life : 15,000 cycles min.

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.

					ALPS ELECTRIC CO., LTD.									
					APPD. oct. 01, '92	CHKD. oct. 01, '92	DSGD. oct. 01, '92	F 1 0 1 3 7 8 1 M						
SYMB	DATE	APPD	CHKD	DSGD	S. Aizawa	M. Satoh	s, 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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