Customer: ALGE GERMAN DISTRIBUTER	No. LX-2004-2916
Attention: Your ref. No: Your Part. No:ALBS 402148	Date: Jul. 21, 2004
SPECIFICA	TIONS
	ALPS';
	MODEL RK09L12B0 (100kA X2)
	Spec. No. :
	Sample No.: F1689815M
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

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RK09L12B0

POTENTIOMETER.

2. CONTENTS OF THIS SPECIFICATIONS.

F1689815M K092G000C

3.MARKING

-MARKING ON ALL UNITS
DATE CODE, RESIST, VALUE, TAPER

4. REMARKS

·FURNISH PACKAGE NUT: 1, WASHER: 1

· 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 : 100 ko ± 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 (α)

Maximum working voltage: 50 V A.C. . 10 V D.C.

4. Resistance taper : A

5. Maximum attenuation level at full C.C.W. position: 90 dBmin.

6. Inseration loss at full C. W. position : 0. 1dB max.

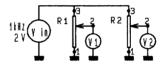
7. Sliding noise : Less than 100mV. (Measured by JIS C 6443)

8. Insulation resistance: More than 100 Ma at 250V D.C.

9. Withstand voltage: 300V A.C. for 1 mimute.

10. Gang error :3 dB max.

to -40dB less than 0dB



MECHANICAL

1. Total rotational angle : 300°±5°

2. Rotational torque : $2\sim25mN\cdot m$ (Rotational speed $60^{\circ}/sec.$) 3. Stopper strength : No damage with an application of 0.5N·m.

4. Resistance to soldering heat : Please refer to the attached

5. Bushing nut tightening strength: Tightening torque to be

no greater than 1N·m.

*Pay attention otherwise the strength may not be assured.



6. Push/pull strength :

After installing the potentiometer no damages with an application of push or pull force 80N for 10 seconds.

7. Shaft wobble :

The resistor shall be mounted by soldering the mounting legs on the panel and a side thrust of 50mN·m at the end of the shaft shall be applied , then the total play of the shaft shall not exceed 0.6xL/20 mmp-p.

(L is the length between mounting surface and measuring point.)

ENDURANCE

1. Rotational life : 15,000 cycles min.

NOTE

- 1. Operating temparature range : -10~+70°C
- 2. Storage temparature range : -20~+80°C
- 3. The items except above mentioned items shall meet or exceed JIS C 6443.
- 4. The use for HomeAudio.
- 5. This type is protected against sulfides.

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					S, Aizawa	M. Satoh	Y. Saitoh	DOCUMENT NO.				
SYMB	DATE	APPD	CHKD	DSGD	10,7,7,20,00	, 53.00//		LX				

SPECIFICATIONS

Resistance to soldering heat :

There shall be no evidence of poor contact between resistancee element and terminals or any physical damages as a result of soldering.

*Dip soldering :

Condition of soldering :

Soldering shall be certified with following condition.

Substrate to be soldered :

Copper clad laminated phenol board in one surface of 1.6mm thickness.

Solder flux :

Flux of 0.82 specific weight in bubbling type solder fluxcoating apparatus shall be used and bubbling surface height shall be defined substantially as half thickness of substrate.

Flux shall not flow up on substrate surface.

Preheating

Surface temperature of substrate shall be settled within 100°C in two minutes.

Dip soldering :

To be performed in 260±5°C, 5±1 sec.

Please use the above process only one or two times.

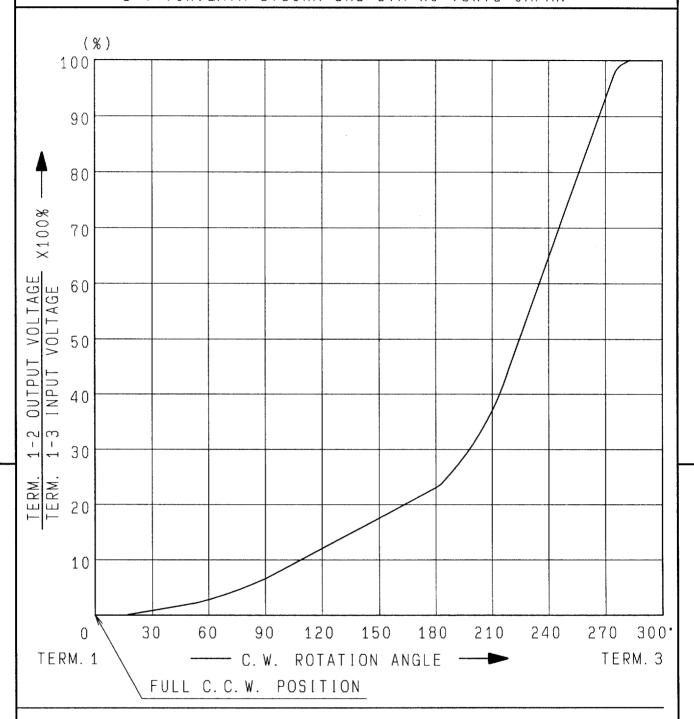
*Manual soldering:

To be performed in three seconds within 350°C.

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AT 150° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 10~25 PERCENT.

					APPD.	CHKD.		NAME
		-			Sep. 07, '93	Sep. 07, '93	Sep. 07. '93	RESISTANCE TAPER (A)
					1			DOCUMENT NO
SYMB	DATE	APPD	CHKD	DSGD	K. Magami	K. Sasaki	K. SUZUKI	F1689815M

