Customer: ALPS EUROPE DISTRIBUTION Attention: Your ref. No.: Your Part No.: RK14K12B0A0R

No. FX-2009-9489

Date: Feb. 16, 2009

SPECIFICATIONS

ALPS';

MODEL: RK14K12B0A0R

(50k A X2)

Spec. No.:

Sample No.: F 7 4 0 5 1 4 2 M

RECEIPT STATUS RECEIVED By Date Signature Name Title



M, Satorw S. Sato DSG'D

APP'D

ENG. DEPT. DIVISION

Sales

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B6523

Q1003#03A (EA)

SPECIFICATIONS

- 1. THIS SPECIFICATIONS APPLY TO RK14K12BOAOR POTENTIOMETER.
- 2. CONTENTS OF THIS SPECIFICATIONS. F7405142M K142G0Z28

3. MARKING

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

4. REMARKS

FURNUSH PACKAGENUT:0 WASHER:0

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

There is a possibility that might be affected by contact resistance of resistive element and wiper in case of low impedance of output side in voltage regulation circuit. For this reason, we require that you adjust to impedance of output side more than 100 times of total resistance.

- 1.For the export of products which are controlled items subject to foreign and domestic export laws and regulations, you must obtain approval and/or follow the formalities of such laws and regulations.
- 2.Products must not be used for military and/or antisocial purposes such as terrorism, and shall not be supplied to any party intending to use the products for such purposes.
- 3.Unless provided otherwise, the products have been designed and manufactured for application to equipment and devices which are sold to end-users in the market, such as AV (audio visual) equipment, home electric equipment, office and commercial electronic equipment, information and communication equipment or amusement equipment. The products are not intended for use in, and must not be used for, any application of nuclear equipment, driving control equipment for aerospace or any other unauthorized use.

 With the exception of the above mentioned banned applications, for applications involving high levels of safety and liability such as medical equipment, burglar alarm equipment, disaster prevention equipment and undersea equipment, please contact an Alps sales representative and/or evaluate the total system on the applicability. Also, implement a fail-safe design, protection circuit, redundant circuit, malfunction protection and/or fire protection into the complete
- 4.Before using products which were not specifically designed for use in automotive applications, please contact an Alps sales representative.

system for safety and reliability of the total system.

5. The products shall be stored in the original packaging and kept at room temperature and humidity, out of direct sunlight, and away from any and all corrosive gas. The products shall be completely used as soon as possible, but no later than 6 months from the date of delivery.

Once product packaging is opened, the complete quantity of such products shall be promptly used.

SPECIFICATIONS

ELECTRICAL

50k Q±20% 1. Total resistance :

0.05 W 2. Rated power

3. Rated voltage

The rated voltage shall be the voltage of 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 (a)

Maximum working voltage: 50 V A.C. This potentiometer is disigned for A.C. only.

4. Resistance taper : A

5. Maximun attenuation level 80 dB min. Insertion loss 0.1dB max.

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

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

8. Withstand voltage: 300V A.C. for one mimute.

9. Gang error

3 dB max. at

-40dB less then OdB

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 350°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 damafe with an spplication of 0.6N·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

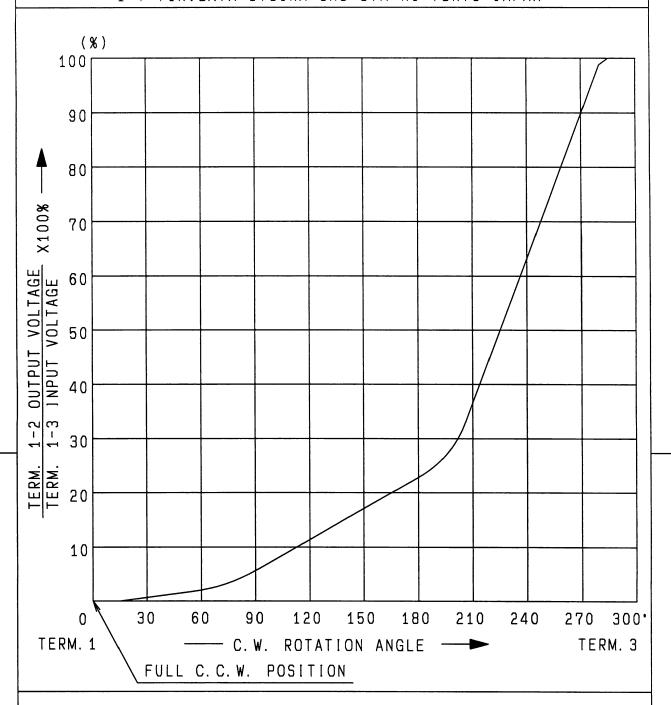
1. Rotational life : 15,000 cycles min.

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

					Aug	AL	PS E	LECTRIC CO., LTD.				
					APPO.	СНКО.	DSGD.	TITLE				
				-	oct. 01, '92	oct. 01, '92	oct. 01, '92	F7405142M				
					S. Aizawa	W. Satoh	S. Sugavara	DOCUMENT NO.				
SYMB	DATE	APPD	CHKD	DSGD	3,7,724,74	1000						

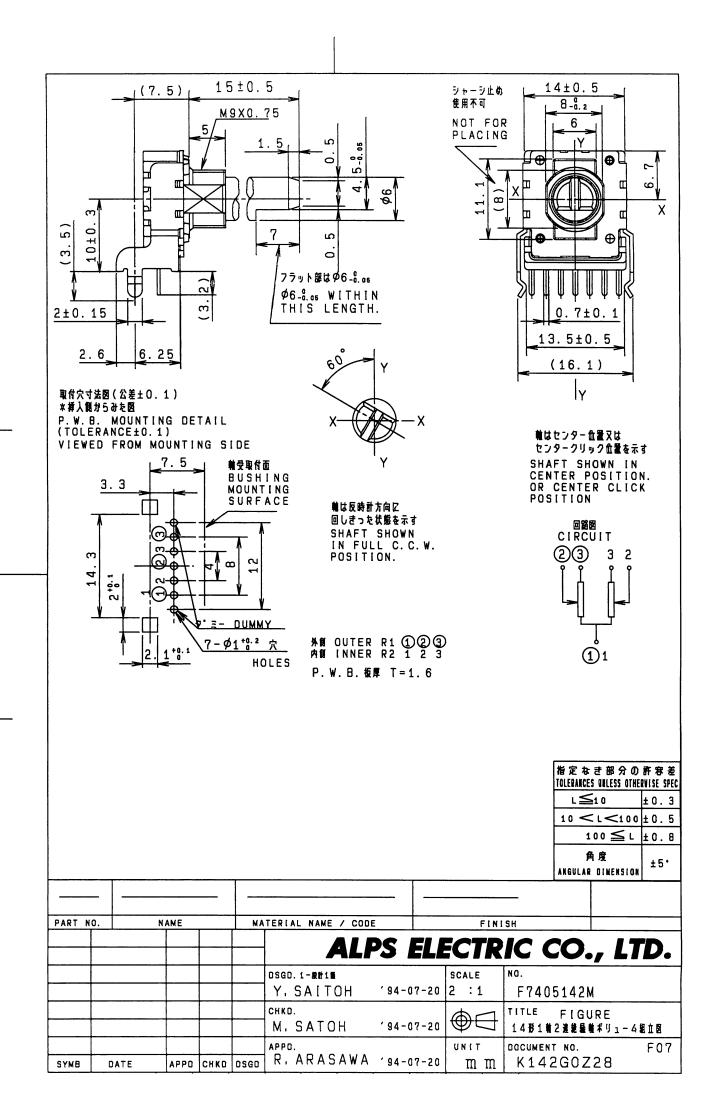


ALPS ELECTRIC CO., LTD 1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN



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

					APPD.	CHKD.	DSGD.	NAME		Α
				}	may. 27, 192	may. 27, '92	may. 27. '92	RESISTANCE	TAPER	
				†	1			DOCUMENT NO.		
SYMB	DATE	APPO	CHKD	osgo	M. Inoue	K, Magami	3. 3a3aki	F7405142M		

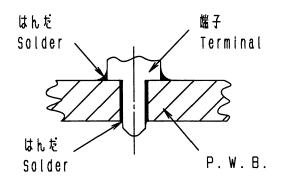


CLASS No.

TITLE

<はんだ付け時のご注意事項> Caution for soldering

> 図のようにP. W. 日の上面にはんだ付けをする配線はお避け下さい。 Please avoid soldering on upper surface of P. W. B. as shown



Λ

基板に挿入される金属足ははんだ付けしてご使用願います。 Solder all metal inserted fixing including terminals & metal lugs into a substrate.

							A	LP	S E	LE	CT	RIC	C CO.,	LTD.
					APPO. DSG1		CHKO. DSG1		SGD. SG1	TIT		74	05142M	
A1 SYMB	'09-01-27 BATE	Y, K	Y. И	H. M		1	Y. SATO	- 1	OYA 996/01/1		UMENT	NO.	4 K - 1	(1/1)