Attention: Your ref. No.:

Customer: ALPS EUROPE DISTRIBUTION

Your Part No.: RK27112A0A0X

No. K272007-1040 Date: Jun. 07, 2007

# SPECIFICATIONS

ALPS';

MODEL: RK27112A0A0X ( 250kA X2 )

Spec. No.:

Sample No.: F 4 2 6 2 0 6 5 M

RECEIPT STATUS **RECEIVED** By Date Signature Name Title



K, Abe S. Sato DSG'D

APP'D ENG. DEPT. DIVISION

Sales

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### SPECIFICATIONS

- 1. THIS SPECIFICATIONS APPLY TO RK27112AOAOX POTENTIOMETER.
- 2. CONTENTS OF THIS SPECIFICATIONS. F4262065M K272A000F
- 3. MARKING
  - MARKING ON ALL UNITS

    EIA DATE CODE, RESIST. VALUE, TAPER
- 4. REMARKS
  - FURNUSH PACKAGENUT:1 WASHER:1

#### 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.

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 which 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

 Total resistance : 250kQ(nominal) ± 20%

2. Rated voltage

The rated voltage shall be the voltage of A.C. (commercial freq-

ency, effective value)

Maximum working voltage : 30V A.C. (A.C. Use only )

3. Resistance taper

4. Maximum attenuation level on full C.C.W. position: 100dB min.

5. Insertion loss on full C.W. position: 0.1dB max.

6. Sliding noise : Less than 47mV ( Measured by JIS C 6443. )

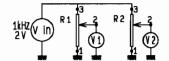
(Neglected a impulsive noise at the c.w. and c.c.w. ends of position)

CHASIS

More than 100MQ at 500V D.C. 7. Insuration resistance

B. Withstand voltage 500V A.C. for 1 minute.

3dB max. at -70dB less than -60dB 2dB max. at -60dB less than 0dB 9. Gang error



#### MECHANICAL

1. Total rotational angle : 300° ± 3° ( Rotational speed : 60°/sec )

2. Rotational torque :  $8\sim35mN\cdot m$  (Rotational speed 3. Stopper strength : No damage with an application of 0.9N·m. 4. Resistance to soldering heat: After soldering ( Less than 350° and within 5sec ), there shall be no

evidence of poor contact between resistance element and terminal, or any

physical damages as a result of the test.

5. Bushing nut tightening strength: Tightening torque

to be no greater than 1.5N·m.

Pay attention to tighten as shown right.

Otherwise, the strength may not be assured. 6. Push / pull strength

No damages with an application of push or pull force 100N for 10 sec.

#### **ENDURANCE**

1. Rotational life : 15.000 cycles min.

#### NOTE

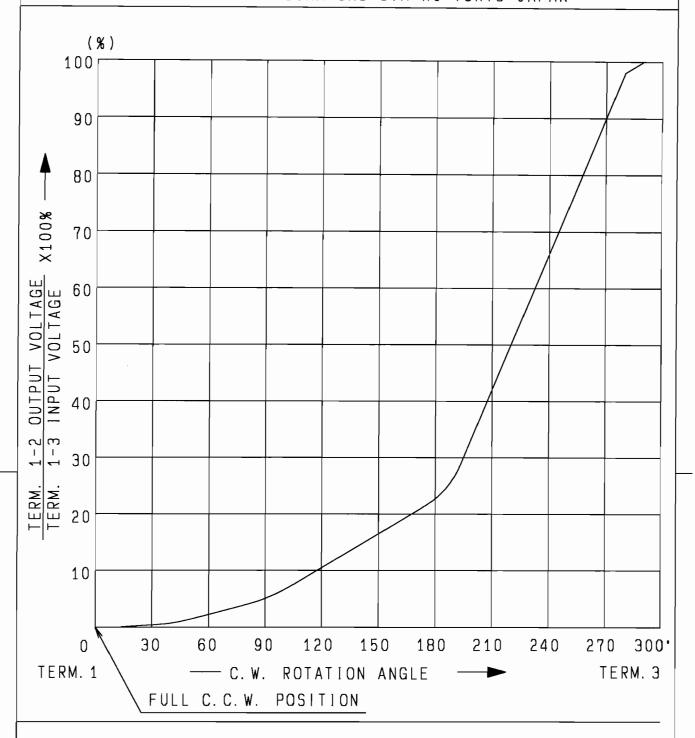
1. The Items except above mentioned items shall meet or exceed JIS C 6443.

2. This type is protected against sulfides.

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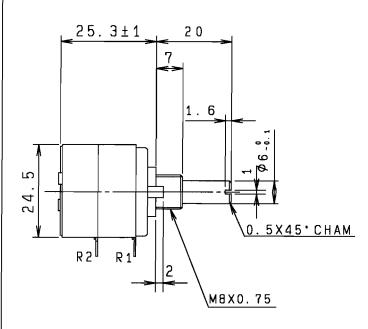


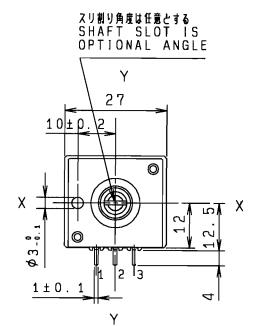
## ALPS ELECTRIC CO., LTD 1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN



AT 180° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 15-30 PERCENT.

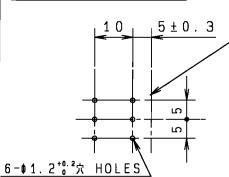
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取付穴寸法図 許容差±0.1 (挿入側から見た図)

P.W.B.MOUNTING DETAIL
TOLERANCE±0.1
VIEWED FROM MOUNTING SIDE



取付面 MOUNTING SURFACE

2 3	2 3
<u>ا</u>	-
R2 \	R 1
1	1

(回路图) CIRCUIT

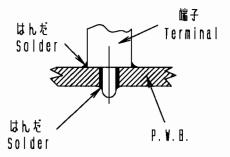
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PART	NO.	NAME		МА	TERIAL NAME	/ CODE		FIN	ISH
					A	LPS I	ELE	CTR	IC CO., LTD.
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### < はんだ付け時のご注意事項 >

図のようにP.W.Bの上面に はんだ付けをする配線は、お避け下さい。

Caution for soldering

Please avoid soldering on upper surface of P.W.B. as shown



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