

Customer: AVNET ASIA PTE LTD

No. K272010-1395

Date: Mar. 29, 2010

Attention:

Your ref. No.:

Your Part No.: --

SPECIFICATIONS

ALPS' ;

MODEL: RK27114A0A0C
(50kA X4)

Spec. No.:

Sample No.: F 9 7 5 4 1 8 7 M

RECEIPT STATUS

RECEIVED

By Date

Signature

Name

Title

ALPS[®]
ALPS ELECTRIC CO., LTD.

DSG'D

K. Abe

APP'D

S. Sato

ENG. DEPT.

Sales

Head Office

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Phone, +81(3)3726-1211

E1099

Q1003#03A (EA)

S P E C I F I C A T I O N S

1. THIS SPECIFICATIONS APPLY TO RK27114A0A0C POTENTIOMETER.

2. CONTENTS OF THIS SPECIFICATIONS.

F9754187M

K274A001V

3. MARKING

- MARKING ON ALL UNITS

EIA DATE CODE, RESIST. VALUE, TAPER

4. REMARKS

- FURNISH PACKAGE

NUT: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.

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 system for safety and reliability of the total system.

4. Before using products which were not specifically designed for use in automotive applications, please contact an Alps sales representative.

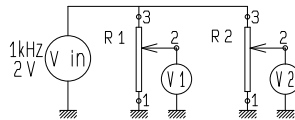
5. The products shall be stored in the original packaging and kept at room temperature and humidity, out of direct sunlight, and away from any and all corrosive gas. The products shall be completely used as soon as possible, but no later than 6 months from the date of delivery.

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

SPECIFICATIONS

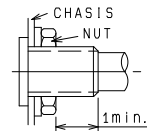
ELECTRICAL

1. Total resistance : 50k Ω (nominal) \pm 20%
2. Rated voltage :
The rated voltage shall be the voltage of A.C.(commercial frequency, effective value)
Maximum working voltage : 30V A.C. (A.C. Use only)
3. Resistance taper : A
4. Maximum attenuation level on full C.C.W. position : 90dB 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)
7. Insuration resistance : More than 100M Ω at 500V D.C.
8. Withstand voltage : 500V A.C. for 1 minute.
9. Gang error : 3dB max. at -70dB less than -60dB
(R1-R2) 2dB max. at -60dB less than 0dB
(R3-R4)



MECHANICAL

1. Total rotational angle : 300° \pm 3°
2. Rotational torque : 8~35mN·m (Rotational speed : 60°/sec)
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.

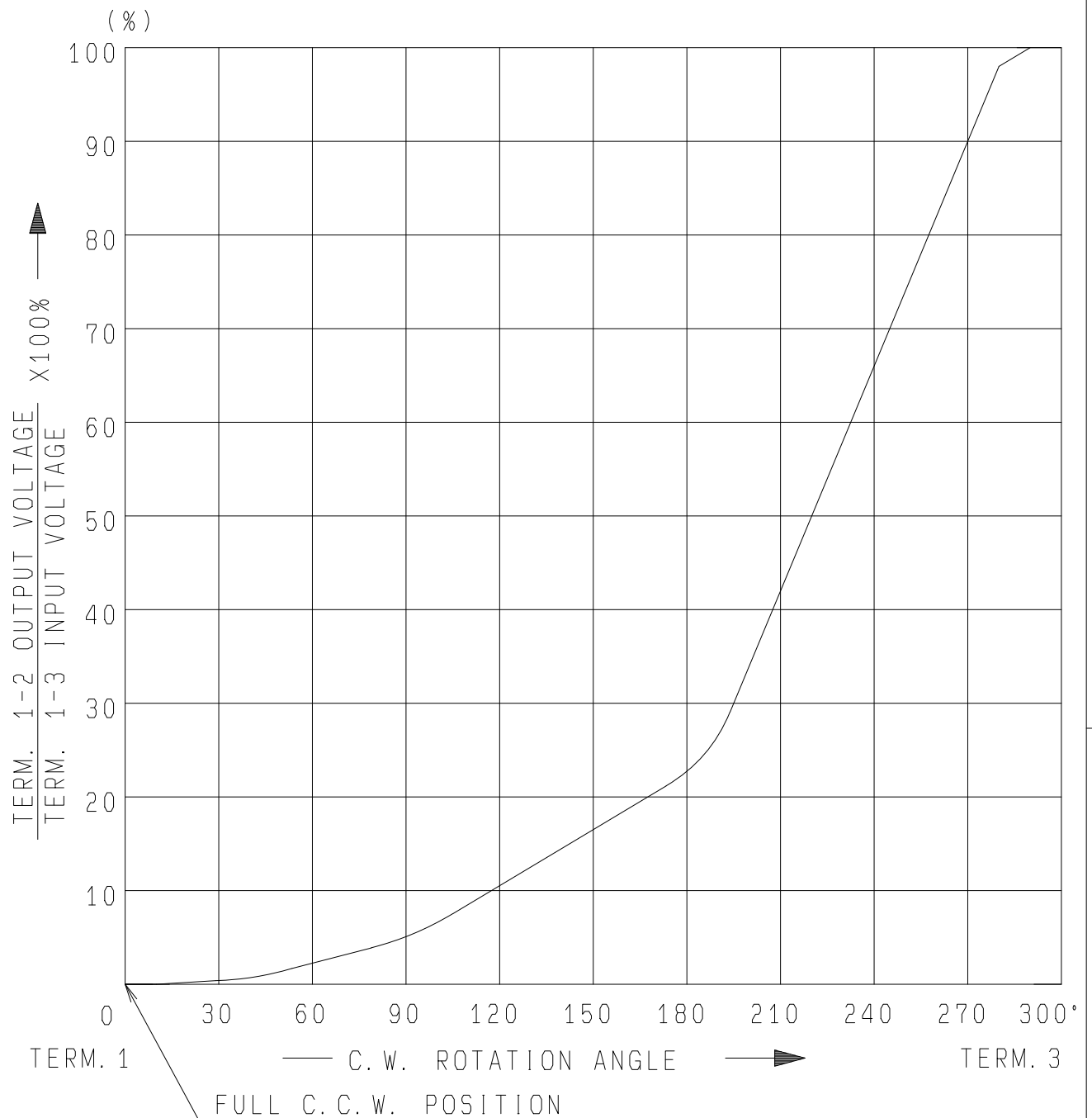
NOTE

1. The items except above mentioned items shall meet or exceed JIS C 6443.
2. This type is protected against sulfides.
3. Operating temperayure: -10℃~+70℃
4. Storage temperature: -20℃~+80℃

					ALPS ELECTRIC CO., LTD.			
					APPD.	CHKD.	DSGD.	TITLE
					Jul. 05. '06	Jul. 05. '06	Jul. 05. '06	F9754187M
					S. Aizawa	Y. Saito	Y. Ohya	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				

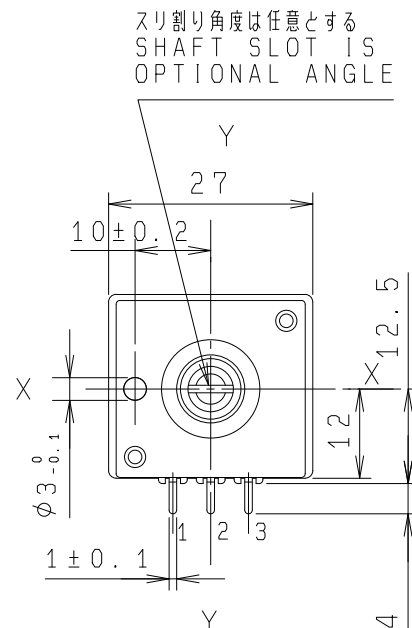


ALPS ELECTRIC CO., LTD
1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN



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

					APPD.	CHKD.	DSGD.	NAME
					Nov. 15, '96		Nov. 15, '96	RESISTANCE TAPER (A)
					S. Sasaki		K. Tuounan	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				F 9 7 5 4 1 8 7 M



Technical drawing of a mounting surface. The drawing shows a grid of 12 holes arranged in 3 rows and 4 columns. The dimensions are as follows:

- Horizontal spacing between columns: 10, 10, 10, and a final gap of 5 ± 0.3 to the mounting surface.
- Vertical spacing between rows: 5, 5, and a final gap of 5 to the mounting surface.
- Labels: "取付面" (Mounting Surface) and "MOUNTING SURFACE" with an arrow pointing to the right edge.
- Bottom label: "12- $\phi 1.2^{+0.2}_0$ 穴 HOLES" with an arrow pointing to one of the holes.

PART NO.	NAME				MATERIAL NAME / CODE			FINISH		
					ALPS ELECTRIC CO., LTD.					
					DSGD.		SCALE		NO.	
					Y. OHYA 2005-07-08		1 : 1		F9754187M	
					CHKD.				TITLE	
					Y. SAITO 2005-07-08				2 7 形 1 軸 4 連 V R 組 立 図	
					APPD.		UNIT		DOCUMENT NO.	
SYMB	DATE	APPD	CHKD	DSGD	S. AIZAWA 2005-07-08		mm		K274A001V	

CLASS No.

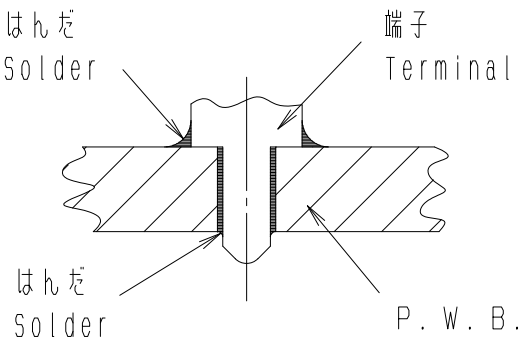
TITLE

<はんだ付け時の注意事項>

Caution for soldering

図のようにP.W.B.の上にはんだ付けをする配線は避け下さい。

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



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.

ALPS ELECTRIC CO., LTD.

APPD.
DSG1

CHKD.
DSG1

DSGD.
DSG1

TITLE

Y. YOSHIOKA

Y. SATO

Y. OYA

DOCUMENT NO.

① 1

'09-01-27

Y. K

Y. K

H. M

SYMB

DATE

APPD

CHKD

DSGD

F 9 7 5 4 1 8 7 M

(/)