

Customer:

No. K272007-0992

Date: Feb. 14, 2007

Attention:

Your ref. No.:

Your Part No.:

SPECIFICATIONS

ALPS' ;

MODEL: RK27114A0
(5kD X4)

Spec. No.:

Sample No.: F 3 7 8 7 7 1 7 M

RECEIPT STATUS

RECEIVED

By Date

Signature

Name

Title

ALPS
ALPS ELECTRIC CO., LTD.

Head Office
1-7, Yukigaya-otsuka-cho, Ota-ku, Tokyo, 145-8501 Japan
Phone, +81(3)3726-1211

DSG'D

Y. Ohya

APP'D

S. Ikenoue

ENG. DEPT. DIVISION

Sales

B6523

Q1003#03A (EA)

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

1. THIS SPECIFICATIONS APPLY TO RK27114A0 POTENTIOMETER.

2. CONTENTS OF THIS SPECIFICATIONS.

F3787717M

K274A001Z

3. MARKING

- MARKING ON ALL UNITS

EIA DATE CODE, RESIST. VALUE, TAPER

4. REMARKS

- FURNISH PACKAGE

NUT:2. WASHER:2

• 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.

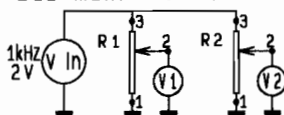
Products being introduced in the specifications have been designed and manufactured for applications to ordinary electronic equipment and devices such as the AV equipment, electric home appliances, office machines and communications equipment. Consequently, when employing these products for applications 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 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

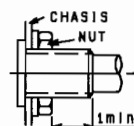
ELECTRICAL

1. Total resistance : $5k\Omega(\text{nominal}) \pm 20\%$
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 : D
4. Maximum attenuation level on full C.C.W. position : 70dB 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 -50dB less than -40dB
(R1-R2) 2dB max. at -40dB less than 0dB
(R3-R4)



MECHANICAL

1. Total rotational angle : $300^\circ \pm 3^\circ$
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 : 5,000 cycles min.

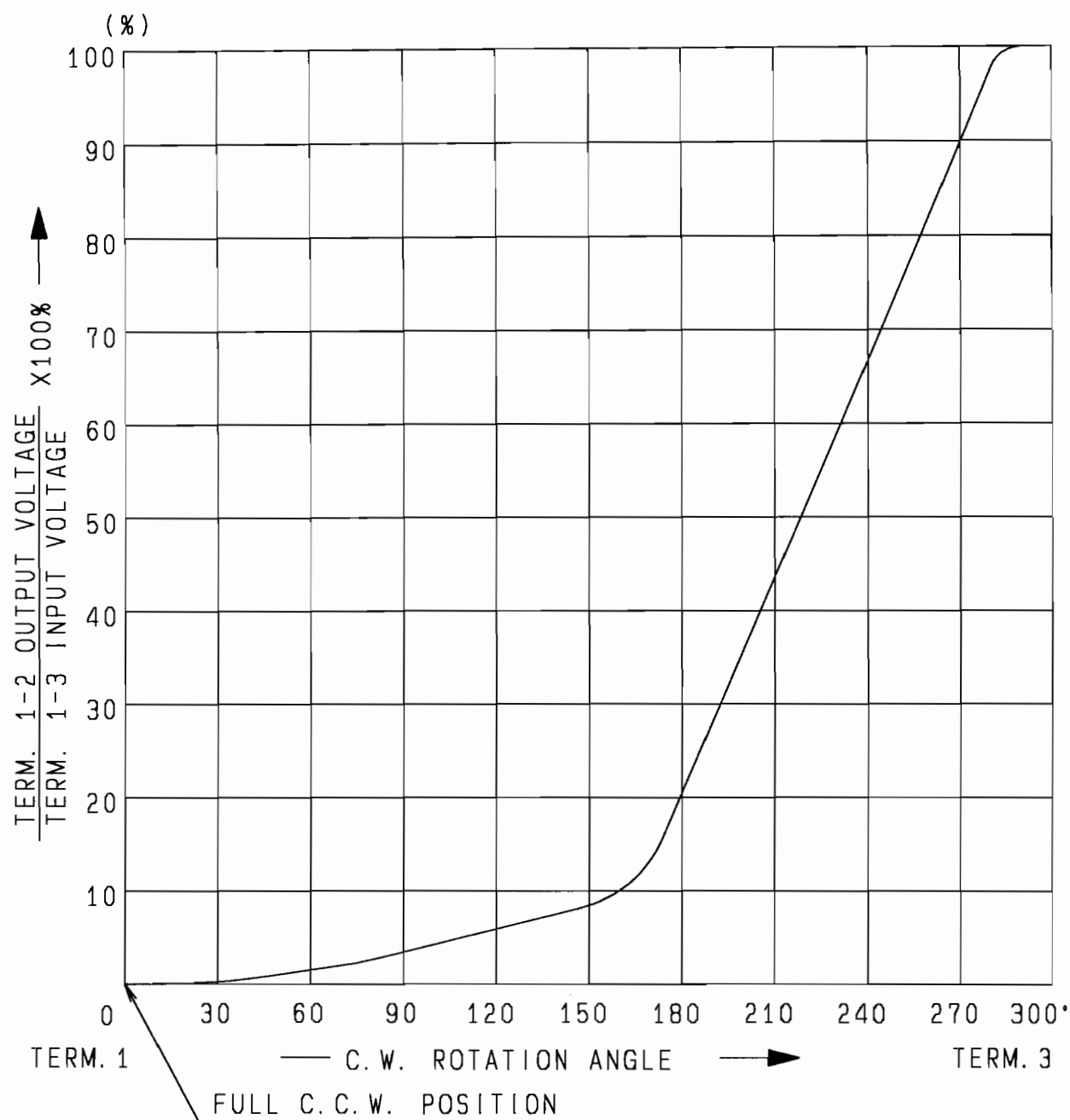
NOTE

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	F3787717M
					S. Aizawa	Y. Salto	Y. Ohya	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				

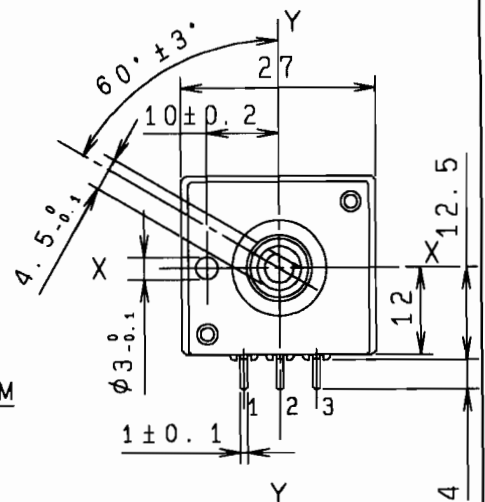


ALPS ELECTRIC CO., LTD
1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN



AT 150° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 2-15 PERCENT.


					APPD.	CHKD.	DSGD.	NAME
					Nov. 15, '96		Nov. 15, '96	RESISTANCE TAPER (D)
					S. Sasaki		K. Tuunan	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				F3787717M



上図は 軸を反時計方向に
回しきった状態を示す
SHAFT SHOWN IN FULL
C. C. W. POSITION



指定なき部分の許容差 TOLERANCES UNLESS OTHERWISE SPEC	
$L \leq 10$	± 0.3
$10 < L < 100$	± 0.5
$100 \leq L$	± 0.8
角度 ANGULAR DIMENSION	$\pm 5^\circ$

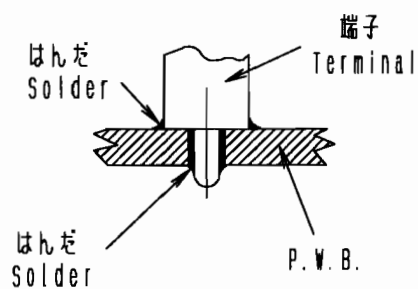
PART NO.		NAME		MATERIAL NAME / CODE		FINISH		
					ALPS ELECTRIC CO., LTD.			
					DSGD.	SCALE	NO.	
					Y. OHYA 2005-07-08	1 : 1	F3787717M	
					CHKD.		TITLE	
					Y. SAITO 2005-07-08		27形1軸4速VR組立図	
					APPD.	UNIT	DOCUMENT NO.	
SYMB	DATE	APPD	CHKD	DSGD	S. AIZAWA 2005-07-08	mm	K274A001Z	

< はんだ付け時の注意事項 >

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



					ALPS ELECTRIC CO., LTD.			
					APPD.	CHKD.	DSGD.	TITLE
					Apr. 14, '93	Apr. 14, '93	Apr. 14, '93	F 3 7 8 7 7 1 7 M
					S. Aizawa	M. Satoh	Y. Saitoh	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				