

Customer: ALPS EUROPE DISTRIBUTION

No. FX-2009-9475

Date: Feb. 05, 2009

Attention:

Your ref. No.:

Your Part No.: RK11K1140A3L

SPECIFICATIONS

ALPS ;

MODEL: RK11K1140A3L
(10k B)

Spec. No.:

Sample No.: F 7 3 5 5 0 7 2 M

RECEIPT STATUS

RECEIVED

By Date

Signature

Name

Title

ALPS[®]
ALPS ELECTRIC CO., LTD.

DSG'D

K. Abe

J-Z

APP'D

S. Sato

ENG. DEPT. DIVISION

Sales

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

B6523

Q1003#03A (EA)

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

1. THIS SPECIFICATIONS APPLY TO RK11K1140A3L POTENTIOMETER.

2. CONTENTS OF THIS SPECIFICATIONS.

F7355072M

K111H0Z21

3. MARKING

• MARKING ON ALL UNITS

DATE CODE, RESIST. VALUE, TAPER

4. REMARKS

• FURNISH PACKAGE

NUT: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 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

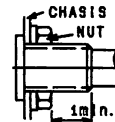
ELECTRICAL

1. Total resistance : 10k Ω \pm 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.

$$E = \sqrt{P \cdot R} \text{ (V)}$$
 Where E : Rated voltage (V)
 P : Rated power (dissipation) (W)
 R : Nominal total resistance (Ω)
 Maximum working voltage : 50 V A.C. , 20 V D.C.
4. Resistance taper : B
5. Residual resistance between term. 1&2, 2&3 : 20 Ω max.
6. Sliding noise : Less than 100 mV. (Measured by JIS C 6443)
7. Insulation resistance : More than 100 Ma at 500V D.C.
8. Withstand voltage: 500V A.C. for one minute.

MECHANICAL

1. Total rotational angle : 300° \pm 5°
2. Rotational torque : 3~20 mN·m (Rotational speed 60°/sec.)
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 damage with an application of 0.6 N·m.
5. Robustness after soldering resistor shaft against end thrust and pull force :
 With the potentiometer mounted, no damage with 80N of push 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.

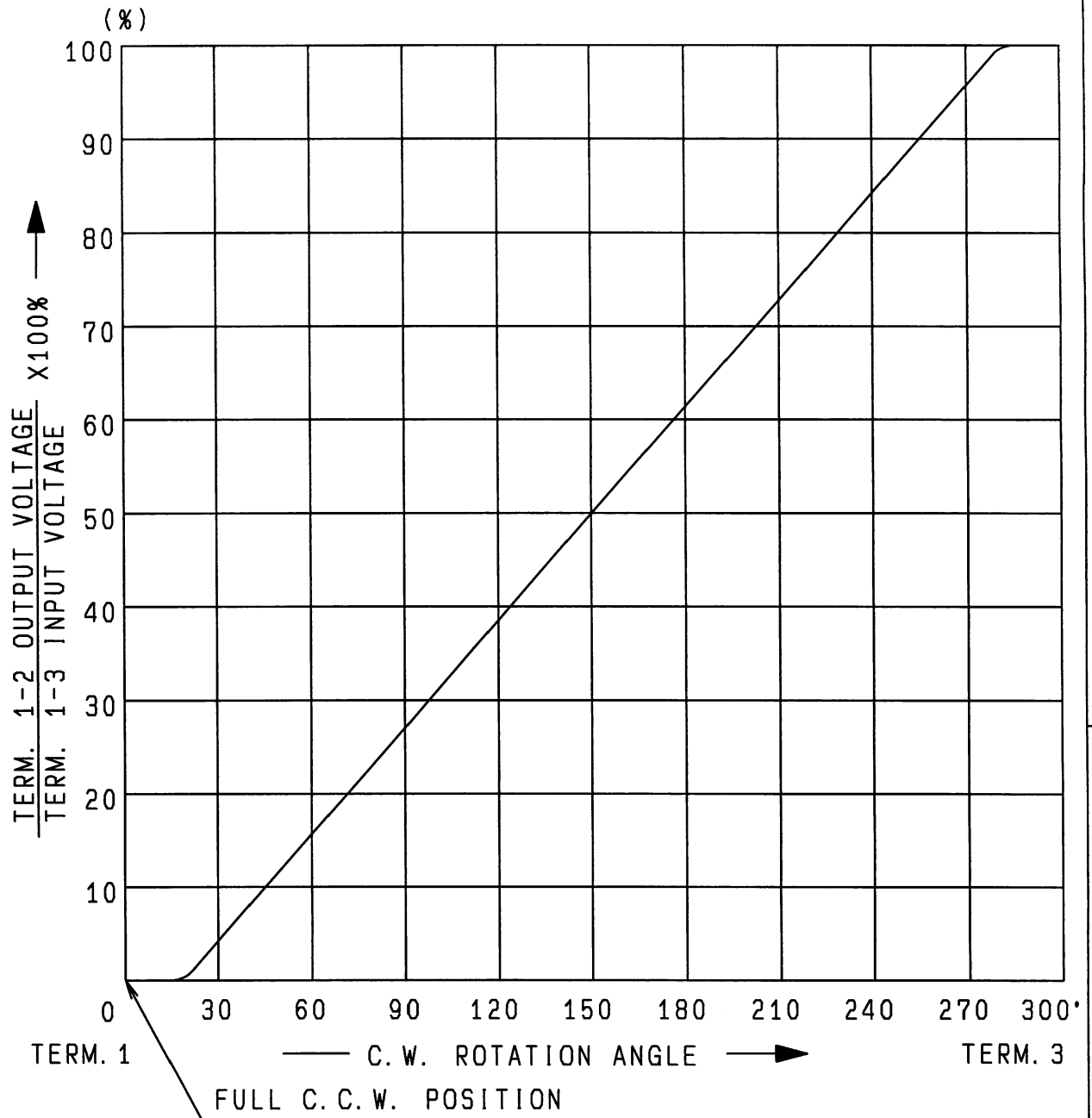
NOTE

1. The items except above mentioned items shall meet or exceed JIS C 6443.
2. Operating temperature :-10°C~+70°C. 3. Storage temperature :-30°C~+70°C.

ALPS ELECTRIC CO., LTD.				
APPD.	CHKD.	DSGD.	TITLE	
<i>Oct. 01. '92</i>	<i>Oct. 01. '92</i>	<i>Oct. 01. '92</i>	F 7355072M	
<i>S. Aizawa</i>	<i>M. Satoh</i>	<i>S. Sugawara</i>	DOCUMENT NO.	
SYMB	DATE	APPD	CHKD	DSGD

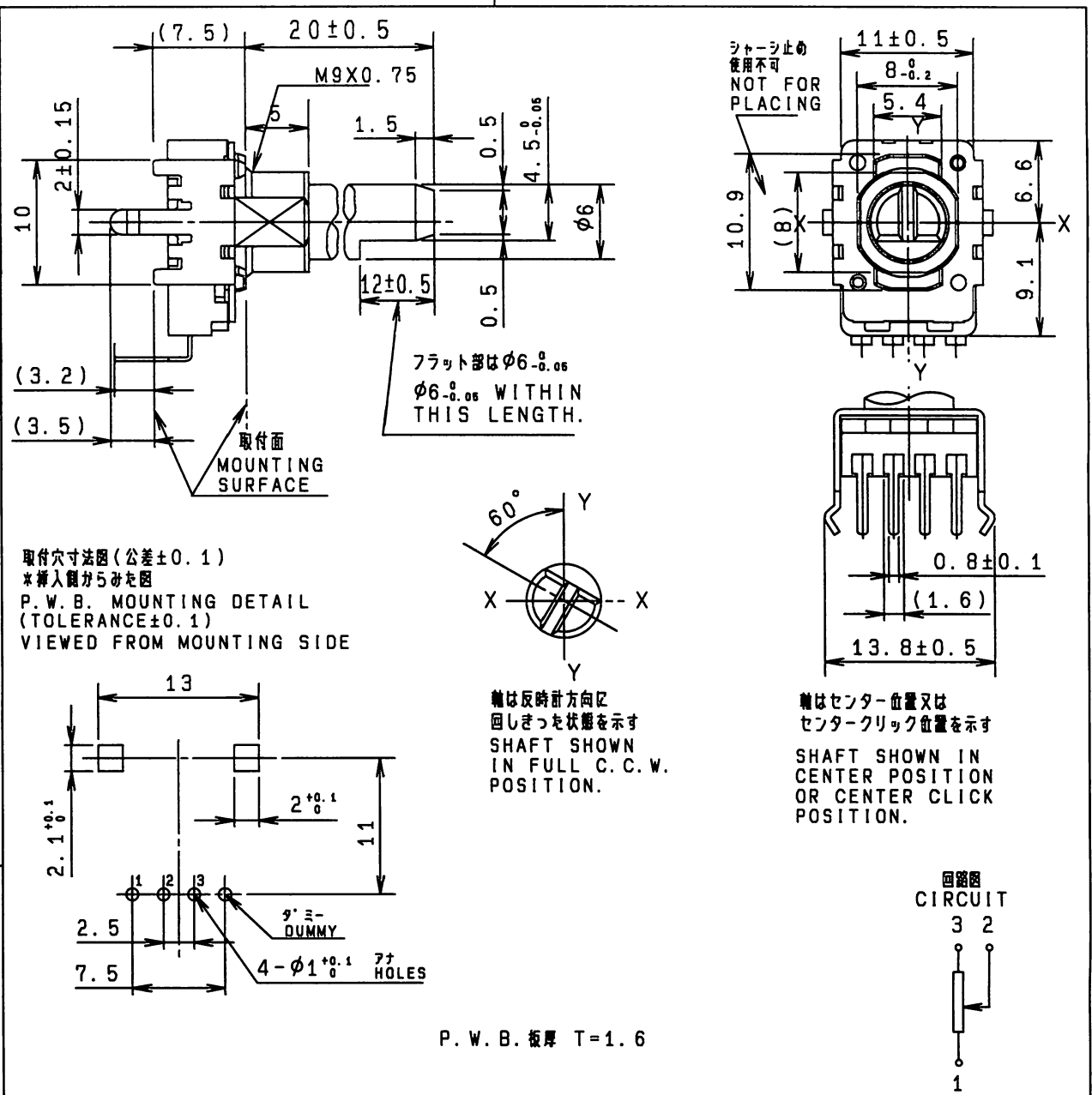


ALPS ELECTRIC CO., LTD
1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN



AT 150° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 40~60 PERCENT.

					APPD.	CHKD.	DSGD.	NAME	B01
					may. 27. '92	may. 27. '92	may. 27. '92	RESISTANCE TAPER	
					M. Inoue	K. Magami	S. Sasaki	DOCUMENT NO.	
SYMB	DATE	APPD	CHKD	DSGD				F7355072M	



指定なき部分の許容差 TOLERANCES UNLESS OTHERWISE SPEC	
L ≤ 10	±0.3
10 < L < 100	±0.5
100 ≤ L	±0.8
角度 ANGULAR DIMENSION	±5°

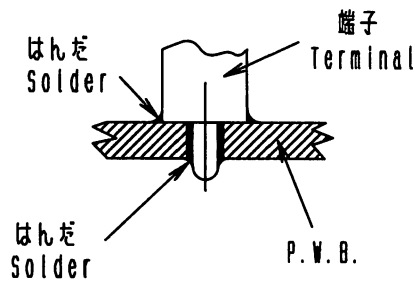
PART NO.					NAME					MATERIAL NAME / CODE					FINISH				
ALPS ELECTRIC CO., LTD.																			
DSGD. 1-設計1番					Y. SAITOH '94-07-20					SCALE 2 : 1					NO. F7355072M				
CHKD.					M. SATOH '94-07-20					TITLE FIGURE					11形準連続種軸ボリュ-4組立図				
APPD.					R. ARASAWA '94-07-20					UNIT mm					DOCUMENT NO. K111HOZ21				
SYMB	DATE	APPD	CHKD	DSGD											F03				

< 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.

					ALPS ELECTRIC CO., LTD.			
					APPD.	CHKD.	DSGD.	TITLE
					Apr. 14, '93	Apr. 14, '93	Apr. 14, '93	F 7355072M
					S. Aizawa	M. Satoh	Y. Saitoh	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				