

Customer : AEE-DS

No. AD-96-0979

Date : Jan. 19, 1996

Attention :

Your ref. No :

Your Part. No : PROJ.#374-4

SPECIFICATIONS

ALPS :

MODEL RK0971110
(10kB)

Spec. No. :

Sample No. : G0420106M

RECEIPT STATUS

RECEIVED

By. Date

Signature

Name

Title

ALPS ELECTRIC CO., LTD.

HEAD OFFICE
1-7, YUKIGAYA-OHTSUKA-CHO,
OHTA-KU, TOKYO 145 JAPAN

DSG'D

M. Sato

APP'D

M. Umemori

ENG. DEPT. DIVISION

Sales

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RK0971110 POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

G0420106M
K091K0001

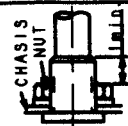
3. MARKING

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

4. REMARKS

• FURNISH PACKAGE
NUT: 1, WASHER: 1

ELECTRICAL		Single shaft (R1)	
1. Total resistance:		10 kΩ ± 20%	
2. Rated power:		0.05W	
3. Rated voltage:		Please refer to the attached.	
4. Resistance taper:		Please refer to the attached.	
5. Tap position:			
6. Tap resistance between terminals:			
7. Residual resistance between terminals:		1&2, 2&3 : 20Ω max.	
8. Sliding noise : (Measured by JIS C 6443)		Less than 100mV	
9. Insulation resistance :		More than 100 MΩ at 250V D.C.	
10. Withstand voltage:		300V A.C. for 1 minute.	
11. Gang error :			
12. switch rating: (Resistor load)			
13. Switch contact resistance:			
14. Circuit:			
MECHANICAL			
1. Total rotational angle :		300° ± 5°	
2. Rotational torque: (Rotational speed 60°/sec.)		20-250 gf·cm.	
3. Stopper strength :		5 kgf·cm min.	
4. Resistance to soldering heat :		Please refer to the attached.	
5. Bushing nut tightening strength :		Tightening torque to be no greater than 10 kgf·cm. *Pay attention otherwise the strength may not be assured.	
6. Push / pull strength :		No damages with an application of Push or pull force 10 kgf for 10 sec.	
7. Shaft wobble : (Apply the moment of 500gf·cm at the point of 30mm from mounting surface)		0.4 XL/30mm p-p max. (L: Shaft length)	
8. Operation force of shaft :		(If the shaft length is less than 30mm, the value shall be calculated proportionally.)	
9. Click position :			
10. Click torque:			
11. Rotation play at the click position:			
12. Contact arrangement :			
13. Switching angle :			
14. Switch operation torque :			
ENDURANCE			
1. Rotational life :		More than 15,000 cycles.	
NOTES			
1. The items except above mentioned items shall meet or exceed JIS C 6443.			
2. This type is protected against sulfides.			
ALPS ELECTRIC CO., LTD.		TITLE SPECIFICATIONS	
		No. G0420106M	
		DSGO. May. 05. '94 I. Yanozumi	
		CHKD. May. 05. '94 M. Endo	
		APPD. May. 05. '94 R. Akasaka	
		DATE APPD/CHKD/DSGO	



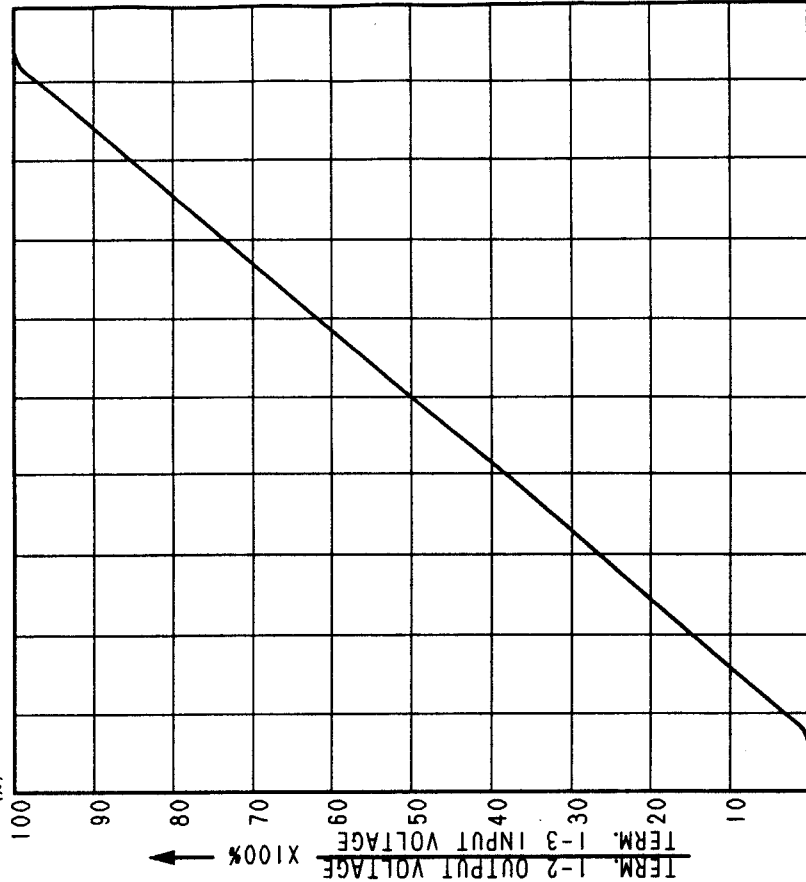


ALPS ELECTRIC CO., LTD

1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN

(R1)

(%)



TERM. 1 30 60 90 120 150 180 210 240 270 300 TERM. 3

— C.W. ROTATION ANGLE —
FULL C.C.W. POSITION

AT150° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 40-60 PERCENT.

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.

$$E = \sqrt{P \cdot R} \quad (V)$$

Where E : Rated voltage (V)

P : Rated power (dissipation) (W)

R : Nominal total resistance (Ω)

Maximum working voltage : 50 V A.C., 10 V D.C.

Resistance to soldering heat

There shall be no evidence of poor contact between resistance element and terminals, or any physical damages as a result of soldering.

• Dip soldering

Condition of soldering :

Soldering shall be certified with following condition.

Substrate to be soldered :

Copper clad laminated phenol board in one surface of 1.6 mm thickness.

Solder flux :

Flux of 0.82 specific weight in bubbling type solder fluxcoating apparatus shall be used and bubbling surface height shall be defined substantially as half thickness of substrate.

Flux shall not flow up on substrate surface.

Preheating :

Surface temperature of substrate shall be settled within 100°C in 2 minutes.

Dip soldering :

To be performed in 3 seconds within 260°C.

Please use the above process only 1 or 2 times.

• Manual soldering

To be performed in 3 seconds within 300°C.

SYMB	DATE	APPD	CHKD	DSGDD	APPD.	CHKD.	DSGDD.	NAME	DOCUMENT NO.
					Rev. 23. '94	Rev. 23. '94	Rev. 23. '94	I. Yamamoto	
					R. Masuda	M. Endo			

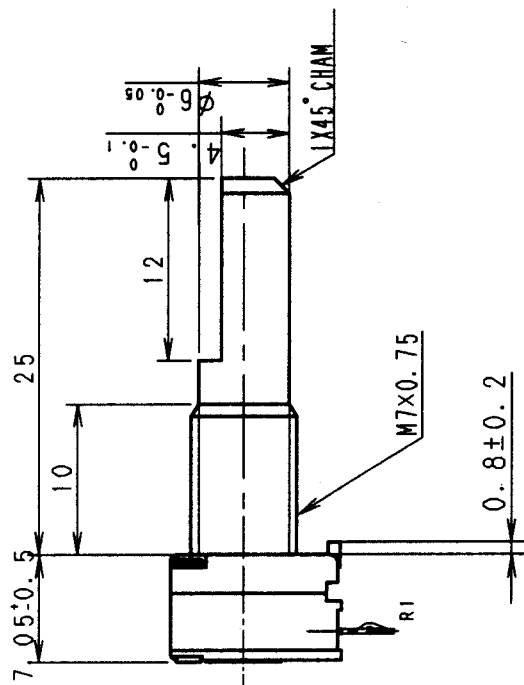
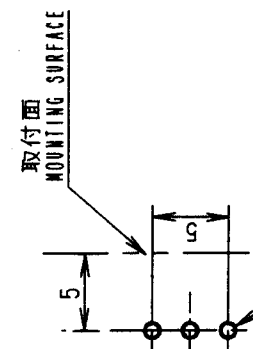
SYMB	DATE	APPD	CHKD	DSGDD	APPD.	CHKD.	DSGDD.	NAME	RESISTANCE TAPER	K09-B01
					Rev. 23. '94	Rev. 23. '94	Rev. 23. '94	I. Yamamoto		
					R. Masuda	S. Sasaki				

GO420106M

NOTES

BUSHING MATERIAL ----- ZINC ALLOY DIE CASTING

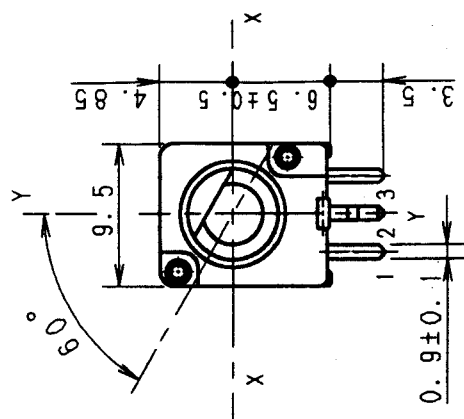
SHAFT MATERIAL ----- ALUMINUM

LOCATING LUG DETAIL
シヤーシ止め詳細図

3 - $\phi 1 \frac{1}{8}$ " 穴 HOLES

端子取付寸法図 (輸入側より見た図)
(許容差 ± 0.1)
MOUNTING HOLE DETAIL
(TOLERANCE ± 0.1)
VIEWING FROM
MOUNTING SIDE

上図は軸を反時計方向に
回し切った状態を示す。
SHAFT SHOWN IN
FULL CCW POSITION



ALPS ELECTRIC CO., LTD.

[illegible]