

Customer: ALPS EUROPE DISTRIBUTION

No. AD-2007-8986

Date: Aug. 22, 2007

Attention:

Your ref. No.:

Your Part No.: 9478 EPD

SPECIFICATIONS

ALPS' ;

MODEL: RK0971224
(50kA X2)

Spec. No.:

Sample No.: F 4 5 7 9 4 2 5 M

RECEIPT STATUS

RECEIVED

By Date

Signature

Name

Title

ALPS[®]
ALPS ELECTRIC CO., LTD.

DSG'D

Z. Ashida

APP'D

Y. Tamada

ENG. DEPT. DIVISION

Sales

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1-7, Yukigaya-otsuka-cho, Ota-ku, Tokyo, 145-8501 Japan
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B6523

Q1003#03A (EA)

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

1. THIS SPECIFICATIONS APPLY TO RK0971224 POTENTIOMETER.

2. CONTENTS OF THIS SPECIFICATIONS.

F4579425M

K092K404J

3. MARKING

• MARKING ON ALL UNITS

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.

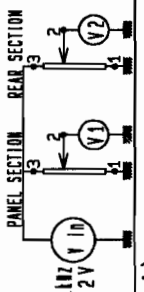
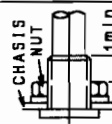
For this reason, we require that you adjust to impedance of output side more than 100 times of total resistance.

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.

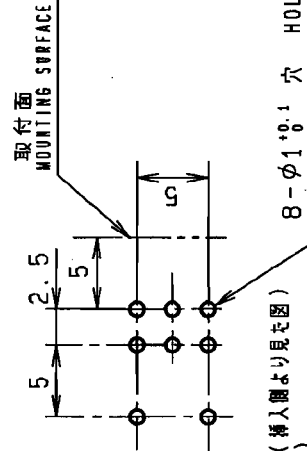
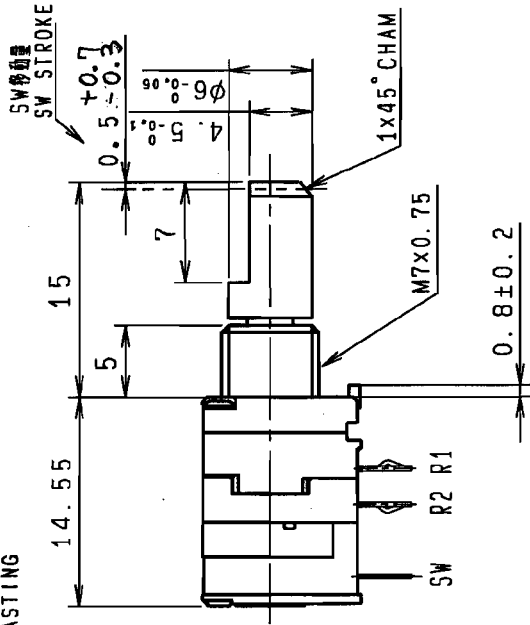
Products being introduced in the specifications have been designed and manufactured for applications to ordinary electronic equipment and devices such as the AV equipment, electric home appliances, office machines and communications equipment. Consequently, when employing these products for applications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

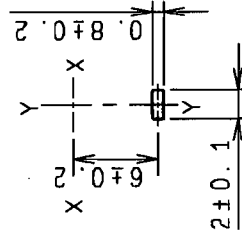
ELECTRICAL		Single shaft (R1, R2)	
1. Total resistance:	50 k \pm 20%		
2. Rated power:	0.05W		
3. Rated voltage:	Please refer to the attached.		
4. Resistance taper:	Please refer to the attached.		
5. Tap position:			
6. Tap resistance between terminals:			
7. Residual resistance between terminals:	1 \pm 2.2 \pm 3 : 50 Ω max.		
8. Sliding noise : (Measured by JIS C 6443)	Less than 100mV		
9. Insulation resistance :	More than 100 M Ω at 250V D.C.		
10. Withstand voltage:	300V A.C. for 1 minute.		
11. Gang error :	3 dB max. between -40dB less than 0dB 		
12. Switch rating: (Resistor load)	0.5A12VD.C. (min.:10mA)		
13. Switch contact resistance: (Measured by the 0.5A 5V D.C. voltage drop method.)	Initial value :100m Ω max. After 10,000 cycles:200m Ω max.		
14. Circuit:			
MECHANICAL			
1. Total rotational angle :	300 $^{+10}$		
2. Rotational torque : (Rotational speed 60°/sec.)	2~25mN·m.		
3. Stopper strength :	No damage with an application of 0.5N·m min.		
4. Resistance to soldering heat :	Please refer to the attached.		
5. Bushing nut tightening strength :	Tightening torque to be no greater than 1N·m *Pay attention 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.		
7. Shaft wobble : (Apply the moment of 50mN·m at the point of 30mm from mounting surface)	0.7 XL/30mm p-p max. (L: Shaft length) (If the shaft length is less than 30mm, the value shall be calculated proportionally.)		
8. Operation force of shaft:			
9. Click position :			
10. Click torque:			
11. Rotation play at the click position:			
12. Contact arrangement :	S.P.S.T. (PUSH ON)		
13. Switching stroke :	0.5 $^{+0.1}$ _{-0.3} mm		
14. Switch operation force :	4 $^{+1}$ ₋₃ N		
ENDURANCE			
1. Rotational life :	More than 15,000 cycles.		
2. Switching life :	More than 10,000 cycles.		
NOTES			
1. The items except above mentioned items shall meet or exceed JIS C 6443.			
2. This type is protected against surflides.			
3. Operating temperature range : -20°C to +70°C			
4. Storage temperature range : -40°C to +85°C			
ALPS ELECTRIC CO., LTD.		TITLE	
SPECIFICATIONS		SYMB	
DATE		APPROVED	
SYMB		DATE	
APPD.		CHKD.	
May. 05. '94		May. 05. '94	
R. Arasawa		M. Endo	
DSGD.		DSGD.	
May. 05. '94		May. 05. '94	
T. Yamaguchi		T. Yamaguchi	
NO.		NO.	
F 4579425M		F 4579425M	

NOTES
 BUSHING MATERIAL ----- ZINC ALLOY DIE CASTING
 SHAFT MATERIAL ----- ALUMINUM

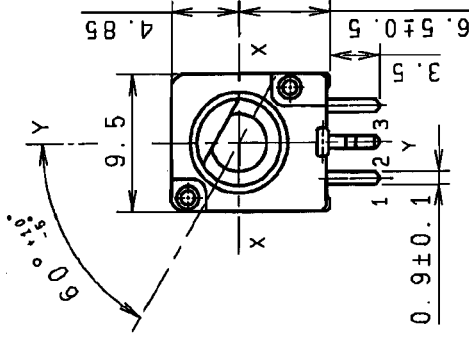


端子取付寸法図 (挿入側より見欠図)
 (許容差±0.1)
 MOUNTING HOLE DETAIL
 (TOLERANCE±0.1)
 VIEWED FROM
 MOUNTING SIDE

シャフト止の詳細図
 LOCATING LUG DETAIL



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



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°

ALPS ELECTRIC CO., LTD.		DSGN.	SCALE	5R4211
		Y. SAITO	2004-08-30	X
		CHKD.	<i>Y. Okada</i>	9形1軸2連 PUSH ON SW付VR組立図
		APPD.	<i>G. Steiniger</i>	DOCUMENT NO. K092K404J
				UNIT m m
				4.5g

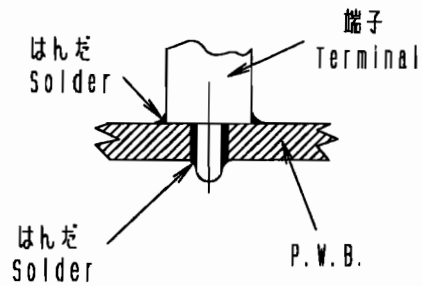
OR

< 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 4579425M
					S. Aizawa	M. Satoh	Y. Saitoh	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				