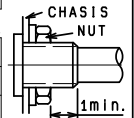


ELECTRICAL		Outer shaft (R1)					Inner shaft (R2)				
1.Total resistance:		10 kΩ± 20%					10 kΩ± 20%				
2.Rated power:		0.05W					0.05W				
3.Rated voltage:		Please refer to the attached.									
4.Resistance taper:		Please refer to the attached.									
5.Tap position:											
6.Tap resistance between terminals:											
7.Residual resistance between terminals:		1&2,2&3 : 20Ω max.					1&2,2&3 : 20Ω max.				
8.Sliding noise : (Measured by JIS C 6443)		Less than 100mV					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°					300°±5°				
2.Rotational torque: (Rotational speed 60°/sec.)		2~25mN・m.					2~25mN・m.				
3. Stopper strength :		No damage with an application of 0.5N・m min.					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 monting surface)		0.5 XL/30mm p-p max. (L:Shaft length)					0.8 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 :											
13.Switching angle :											
14.Switch operation torque :											
ENDURANCE											
1.Rotational life :		More than 15,000 cycles.					More than 15,000 cycles.				
NOTES											
1.The items except above mentioned items shall meet or exceed JIS C 6443.											
2.The shaft of this potentiometer is not perfectly grounded through its bushing because of its construction.											
If there are any problems on this matter. Please let us know in advance.											
3.This type is protected against sulfides.											
4.Operating temperature reange:-20℃ to +70℃ 5.Storage temperaturerenge:-40℃ to +85℃											
ALPSALPINE CO.,LTD.		TITLE									
		SPECIFICATIONS									
		SYMB	DATE	APPD	CHKD	DSGD	APPD.	CHKD.	DSGD.	NO.	
							May. 05. '94	May. 05. '94	May. 05. '94	R K 0 9 7 2 2 1 0 0 5 C	
							R. Arasawa	M. Endo	T. Yamaquti		



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)

where  $E$  : Rated voltage (V)  
 $P$  : Rated power (dissipation) (W)

R : Nominal total resistance ( $\Omega$ )

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 :

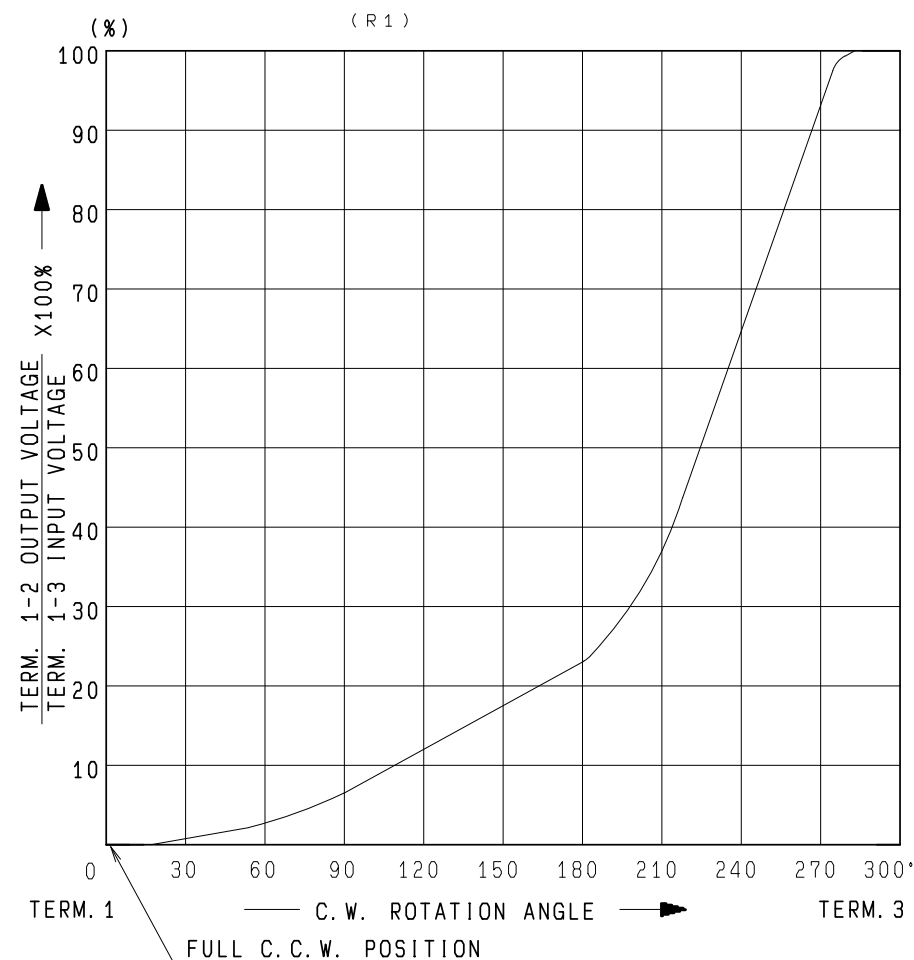
To be performed in  $260 \pm 5^\circ\text{C}$  ,  $5 \pm 1$  sec.

Please use the above process only 1 or 2 times.

- Manual soldering

To be performed in 3 seconds within 300°C.

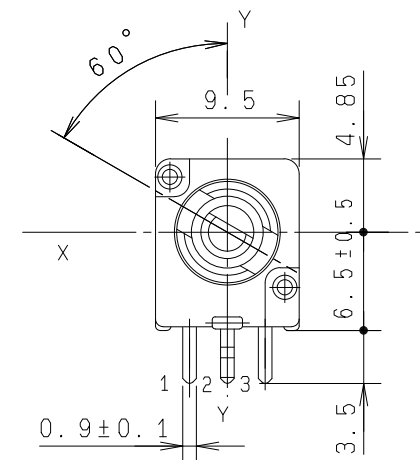
					APPD.	CHKD.	DSGD.	NAME
					May. 23, '94	May. 23, '94	May. 23, '94	
					R. Arasawa	M. Endo	T. Yamaguti	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				



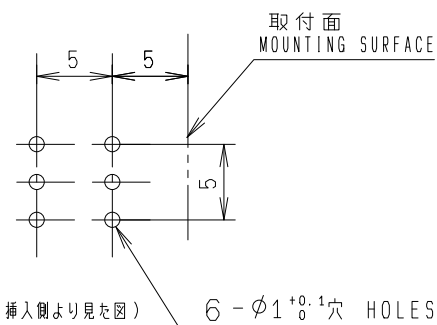
AT 150° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION VOLTAGE  
PERCENT SHALL FALL WITHIN THE LIMITS OF 10-25 PERCENT.

					APPD.	CHKD.	DSGD.	NAME	K09-A01
					May, 23, '94	May, 23, '94	May, 23, '94	RESISTANCE TAPER	
					K. Magami	S. Sasaki	K. Suzuki	DOCUMENT NO.	
SYMB	DATE	APPD	CHKD	DSGD				RK097221005C	

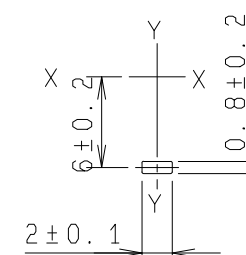
INNER SHAFT MATERIAL --- BRASS



LOCATING LUG DETAIL  
シャーシ止め詳細図



VIEWS 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

VIEWED FROM COUNTING SIDE							<b>ALPSALPINE CO., LTD.</b>		
指定なき部分の許容差 TOLERANCES UNLESS OTHERWISE SPEC							DSGN. 第1製品部 設計1課 T. YAMAGUTI ' 94-05-23	SCALE ×	
$L \leq 10$	$\pm 0.3$								
$10 < L < 100$	$\pm 0.5$						CHKD. M. ENDO ' 94-05-23		TITLE RK097221005C 9形2軸2連 VR 組立図
$100 \leq L$	$\pm 0.8$								
角度 ANGULAR DIMENSION	$\pm 5^\circ$						APPD. R. ARASAWA ' 94-05-23	UNIT mm	DOCUMENT NO. K09BK00
		SYMB	DATE	APPD	CHKD	DSGD			