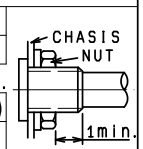
ELECTRICAL	Single shaft(R1)
1. Total resistance:	10 kΩ± 20%
2. Rated power:	0.05W
3. Rated voltage:	Please refer to the attached.
4. Resistance taper:	Please refer to the attached.
5. Tap position:	———
6. Tap resistance between terminals:	———
7. Residual resistance between terminals:	1&2, 2&3 : 20Ω max.
8. Sliding noise : (Measured by JIS C 6443)	Less than 100mV (Except click point)
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 :	$300^{+10}_{-5}{}^{\circ}$
2. Rotational torque: (Rotational speed 60°/sec.)	2~25mN·m. (Specified only when lock is released.)
3. Stopper strength :	No damage with an application of 0.4N·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. (Specified only when lock is released.)
7. Shaft wobble :(Apply the moment of 50mN·m at the point of 30mm from monting surface)	Within 1 $^{+1}_{-0.6}$ XL/30mm p-p. (L:Shaft length) (If the shaft length is less than 30mm, the value shall be calculated proportionally.)
8. Operation force of shaft:	0.4-5N in both push-lock and pull-lock release.
9. Click position :	150°±5°
10. Click torque:	Rotational torque + 3-20mN·m
11. Rotation play at the click position:	10° max.
12. Contact arrangement :	———
13. Switching angle :	———
14. Switch operation torque :	———
ENDURANCE	
1. Rotational life :	More than 15,000 cycles.
2. Push-lock operation 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 sulfides.
3. Please do not pull the shaft when it is locked because it shall be broken by pulling strongly.
4. Operating temperature renge:-20°C to +70°C 5. Storage temperature renge:-40°C to +85°C

ALPSALPINE CO.,LTD.	TITLE	SYMB	DATE	APPD	CHKD	DSGD	APPD.	CHKD.	DSGD.	NO.
	SPECIFICATIONS						May. 05, '94 R. Arasawa	May. 05, '94 M. Endo	May. 05, '94 T. Yamaguti	RK0971ATB14E

Rated voltage :

The rated voltage shall be the voltage of (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.

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

Where E : Rated voltage (V)
P : Rated power (dissipation) (W)
R : Nominal total resistance (Ω)

Maximum working voltage :

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 halt 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±5°C , 5±1 sec.

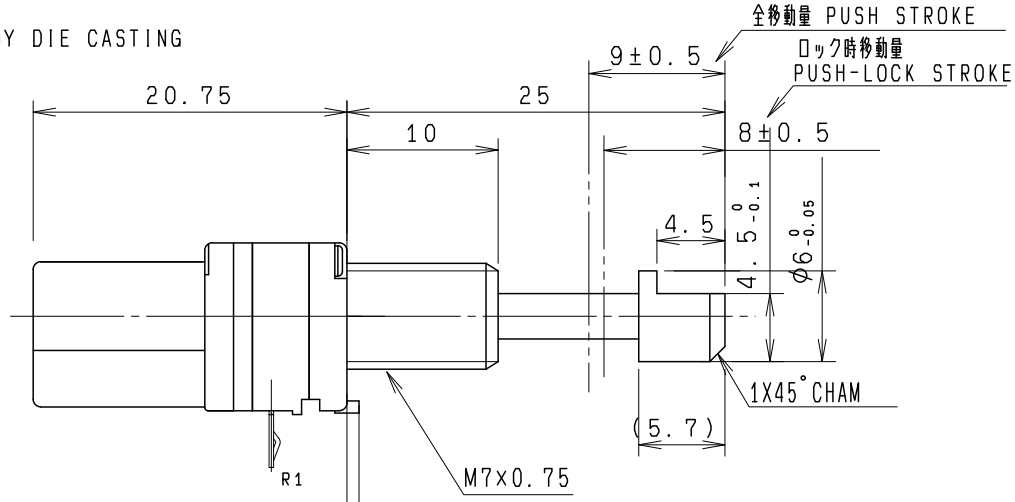
Please use the above process only 1 or 2 times.

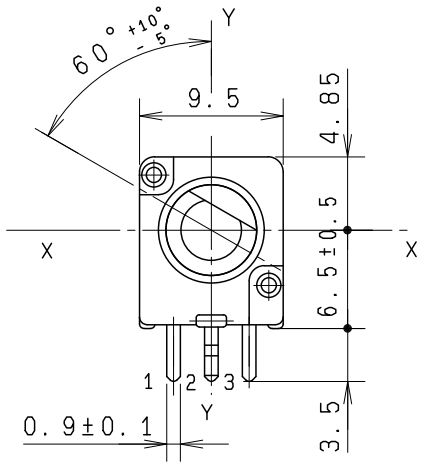
◎Manual soldering

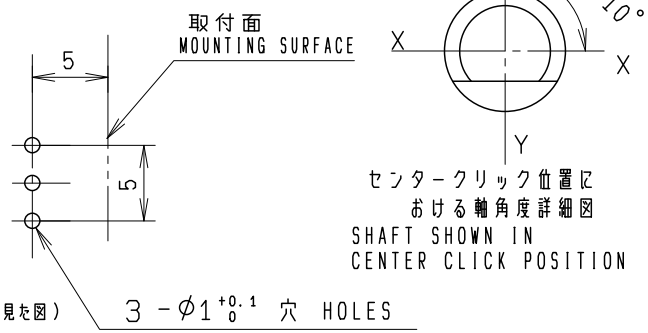
To be performed in 3 seconds within 300°C.

					APPD.	CHKD.	DSGD.	NAME
					May. 23, '94	May. 23, '94	May. 23, '94	
SYMB	DATE	APPD	CHKD	DSGD	R. Arasawa	M. Endo	T. Yamagiti	DOCUMENT NO. RK09711ATB14E

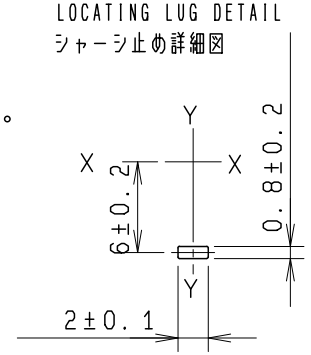
NOTES
BUSHING MATERIAL ----- ZINC ALLOY DIE CASTING
SHAFT MATERIAL ------- ALUMINUM







センタークリック位置における軸角度詳細図
SHAFT SHOWN IN CENTER CLICK POSITION



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

端子取付穴寸法図（挿入側より見た図）
（許容差±0.1）
MOUNTING HOLE DETAIL
(TOLERANCE±0.1)
VIEWED FROM MOUNTING SIDE

質量 4.9g

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°

SYMB	DATE	APPD	CHKD	DSGD

ALPSALPINE CO.,LTD.

DSGN. 第1製品部 設計1課 T, YAMAGUTI '94-05-23	SCALE ×	150° CLICK RK09711ATF25
CHKD. M, ENDO '94-05-23		TITLE 9形1軸単連 PUSH LOCK機構付VR 組立図
APPD. R, ARASAWA '94-05-23	UNIT m m	DOCUMENT NO. K091L0A0B