

SPECIFICATIONS

ELECTRICAL

- 1.Total resistance : 10 kΩ ±30%
- 2.Rated power : 0.03 W
- 3.Rated voltage :

The rated voltage shall be the voltage of 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.

This potentiometer is desgined for A.C. voltage only.

D.C. shall not used.

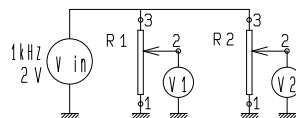
- 4.Resistance taper : A
- 5.Maximun attenuation level: 70 dB min.Insertion loss 0.1dB max.
- 6.Sliding noise : Less than 100 mV. (Measured by JIS C 6443)

7. Insulation resistance : More than 100 MΩ at 100V D.C.

8. Withstand voltage: 100V A.C. for one mimute.

9. Gang error :

3 dB max. at -40 less than 0dB



MECHANICAL

- 1.Total rotational angle : 270±10°
- 2.Rotational torque : 0.5~10mN·m (Rotational speed 60°/sec.)
- 3.Shaft end stop strength : No damage with an application of 70mN·m
- 4.Knob rolling :Fix dial gauge loaded max. 1N to the position
6 mm from knob center and then rotate the knob in range of total 270°
angle so as to measure axial run-out of knob.
The axial run-out must not be greater than 0.4 mmP-P.
5. Push pull strength of knob : No damage with an application of 5N.

ENDURANCE

- 1.Rotational life : 10,000 cycles min.

NOTE

- 1.The items except above mentioned items shall meet or exceed JIS C 6443.
- 2.Operating temperature : -10°C ~ +60°C
- 3.Storage temperature : -30°C ~ +70°C

ALPSALPINE CO.,LTD.

SYMB	DATE	APPD	CHKD	DSGD	APPD.	CHKD.	DSGD.	TITLE
					Sep. 01, '92	Sep. 01, '92	Sep. 01, '92	
					S. Aizawa	T. Tanigawa	S. Inoue	DOCUMENT NO.
								RK10J12R1A14

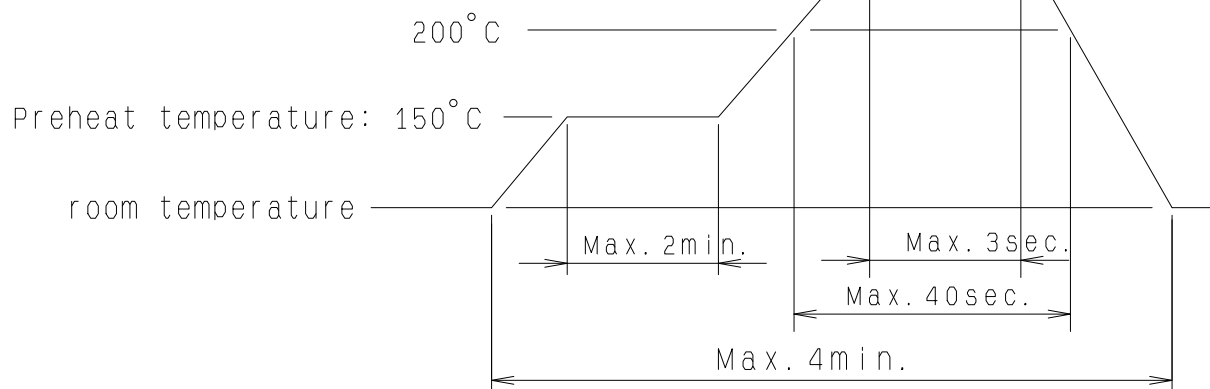
5. RESISTANCE TO SOLDERING HEAT

1. Condition of reflow soldering

The temperatures given below are the maximum temperatures at the surface of the potentiometer when employing a hot air reflow method.

1) Reflow soldering

Maximum temperature: 250°C max.



•WashingNo washing.

•Solder to be used...Use creamy solder with rosin flux 10-15wt%.

*Comment : ①Soldering is not sufficient only by reflow furnace of infrared rays, so use reflow furnace by hot wind blasting or reflow furnace of infrared rays with hot wind blasting.
 ②Warping or wheel deformation is possible depending on the reflow temperature profile.
 Please pay close attention to customer solder profile for a thinner wheel thickness type of potentiometer.

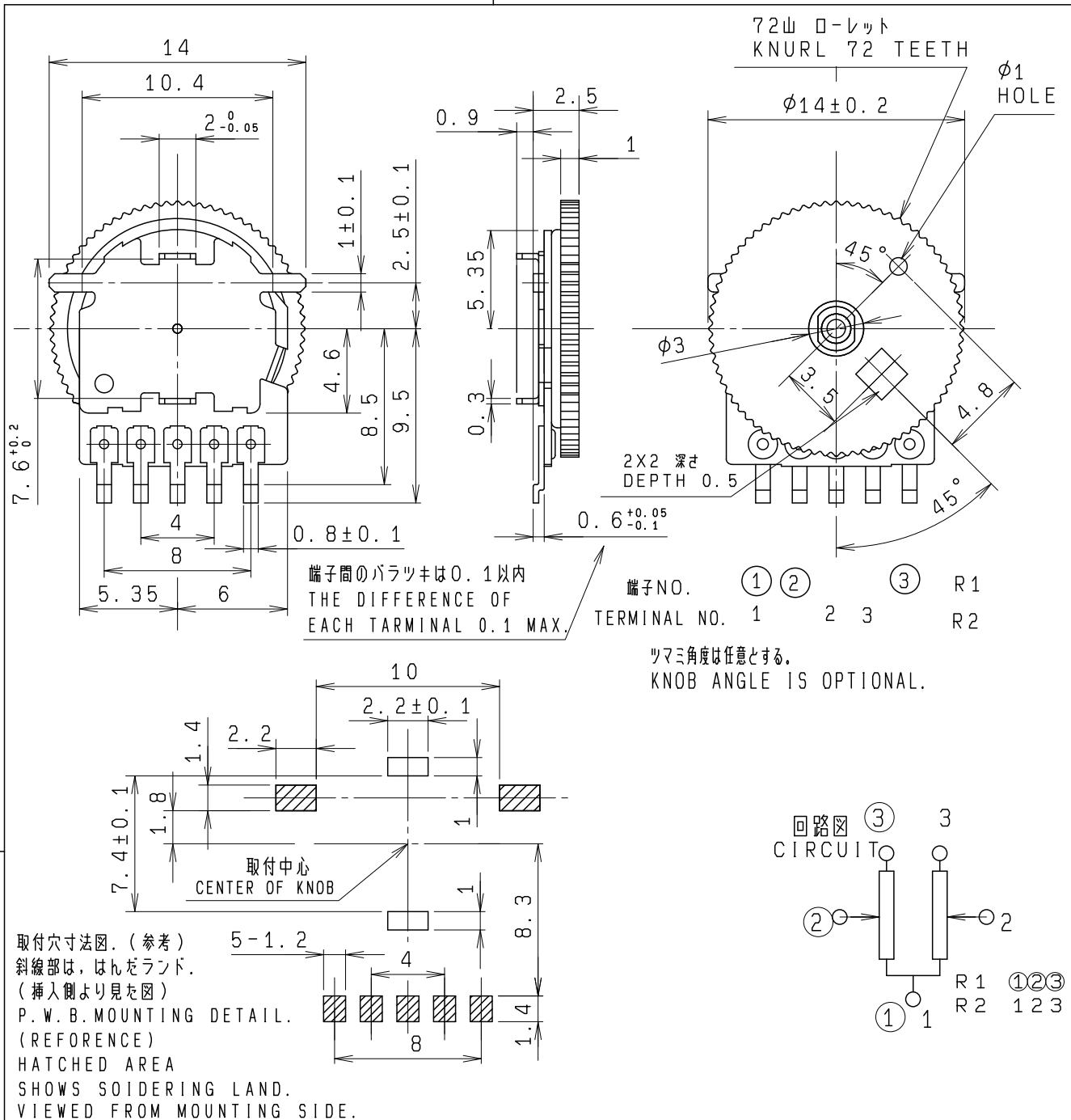
•Maximum frequency of reflow soldering is two.

2. Soldering iron method.


After soldering (Less than 350°C and quicker than 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.

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					APPD.	CHKD.	DSGD.	TITLE
					Jul. 01, '97	Jul. 01, '97	Jul. 01, '97	
					M. Satoh	Y. Ohya	Y. Saitoh	
SYMB	DATE	APPD	CHKD	DSGD	DOCUMENT NO. RK10J12R1A14			

By O.T



指定なき部分の許容差 TOLERANCES UNLESS OTHERWISE SPEC	
$L \leq 10$	± 0.3
$10 < L < 100$	± 0.5
$100 \leq L$	± 0.8
角度 ANGULAR DIMENSION	$\pm 5^\circ$

								KNOB COLOR:BLACK ツマミ:黒			
PART NO.		NAME			MATERIAL NAME & CODE			FINISH		1T COM	
					ALPSALPINE CO.,LTD.						
					DSGN. セツケイ1 Y, SAITOH ' 97-08-01			SCALE 3 / 1		NO. RK10J12R111RA	
					CHKD. Y, OHYA ' 97-08-01					TITLE FIGURE 10形ツマミ付2連ポリユーム	
					APPD. M, SATOH ' 97-08-01			UNIT mm		DOCUMENT NO. TXRMA K102R0Z05	
SYMB		DATE		APPD	CHKD	DSGD					