

Customer : \_\_\_\_\_  
\_\_\_\_\_

No. \_\_\_\_\_

Date : \_\_\_\_\_

Attention : \_\_\_\_\_

Your ref. No. : \_\_\_\_\_

Your Part No. : \_\_\_\_\_

# SPECIFICATIONS

ALPS ; RK2711220A0H

(RK271122002LA)

MODEL: (50k BX2)

Spec. No. : 4K272A-63

Fig.No. : K272A0A0G

REMARKS:	
MARKING	
ON ALL UNITS	
DATE CODE	
RESIST, VALUE	
TAPER	
TRADE MARK	
JAPAN	
FURNISH PACKAGE	
NUT	
WASHER	



**ALPS ELECTRIC CO., LTD.**

HEAD OFFICE

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

DSG'D

*S. Sugawara*

APP'D

*Y. Kanyaki*

ENG. DEPT. WAKUYA DIVISION

CLASSNO. TITLE SPECIFICATIONS

ELECTRICAL

1. Total resistance tolerance: Nominal  $\pm 20\%$  ( $10K\Omega \leq R \leq 2M\Omega$ )
2. Maximum operating voltage: 30V A.C.
3. Resistance taper: See taper figure
4. Residual resistance between terms 1&2 3  $\Omega$  max.  
Residual resistance between terms 2&3 3  $\Omega$  max.
5. Slider noise: less than 47mV (by method of JIS C 6443)
6. Insulation resistance: 100M $\Omega$  min. at 500V D.C.
7. Dielectric strength: Units shall be designed to withstand 500V A.C. 50Hz R.M.S. between resistance element and case for a period of one minute without damage or arcing
8. Gang error: 2dB max. at click position.

Measure between R1&R2  
(term 1-2 output V  
term 1-3 in out V)

MECHANICAL

1. Total rotation angle:  $300^\circ \pm 3^\circ$
2. Rotational torque: 60~350 gf $\cdot$ cm (at 20 $^\circ$ C)
3. Shaft end stop strength: 9kgf $\cdot$ cm min.
4. Resistance to soldering heat: After soldering (less than 350 $^\circ$ C and quicker than 5 seconds) there shall be no evidence of poor contact between resistance element and terminals, or any physical damages as a result of the test
5. Nut tightening strength: 15kgf $\cdot$ cm min.  
(Pay attention as following otherwise the strength may not be assured)
6. Shaft push / pull strength:  
No damages with an application of push or pull force 10kgf for 10 seconds
7. Detent position:  $150^\circ \pm 3^\circ$
8. Detent torque: Rotational torque + (50 ~ 300)gf $\cdot$ cm



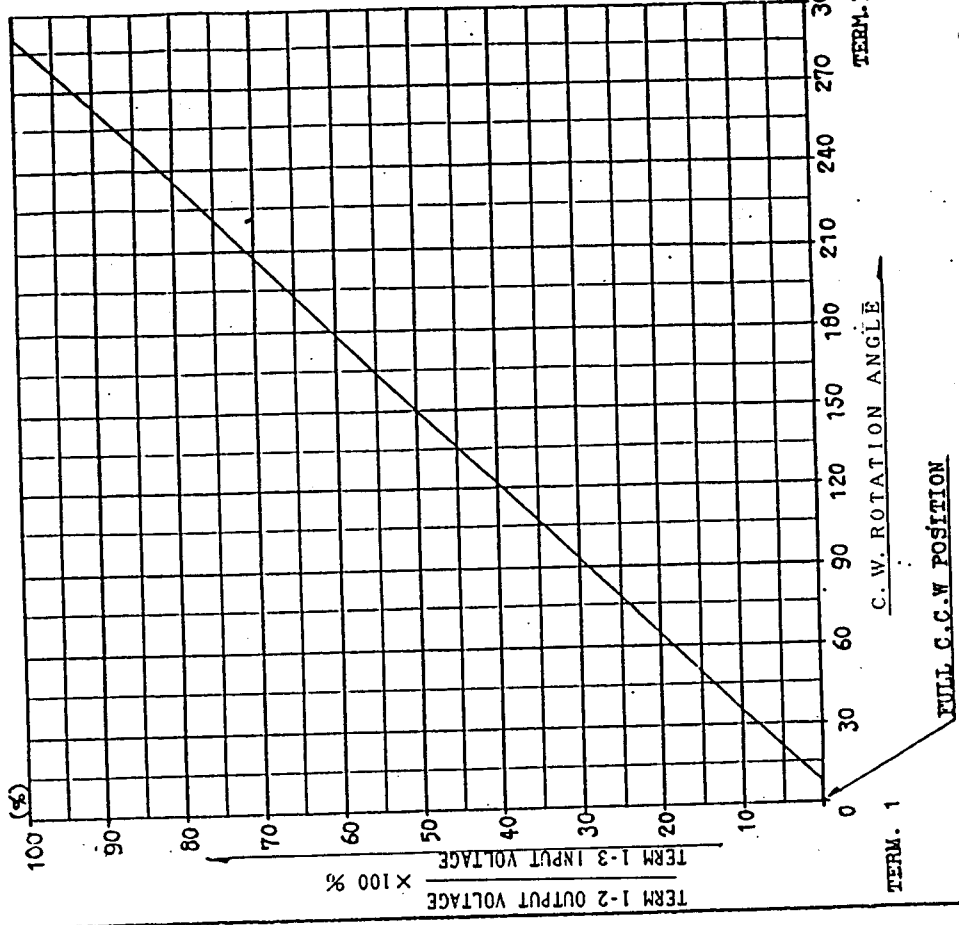
ENDURANCE

1. Rotational life: 15,000 cycles min.

NOTE

1. The items except above mentioned items shall meet or exceed JIS C 6443.

TAPERED CURVE :ALPS "B"



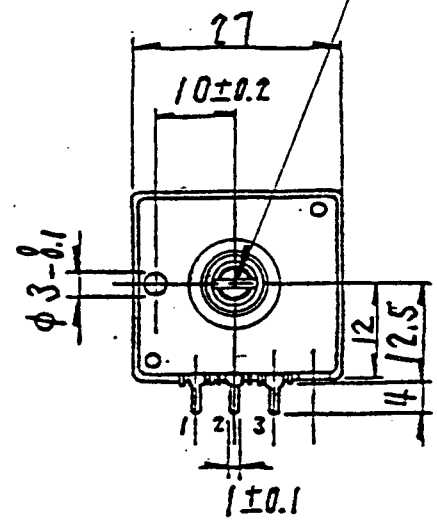
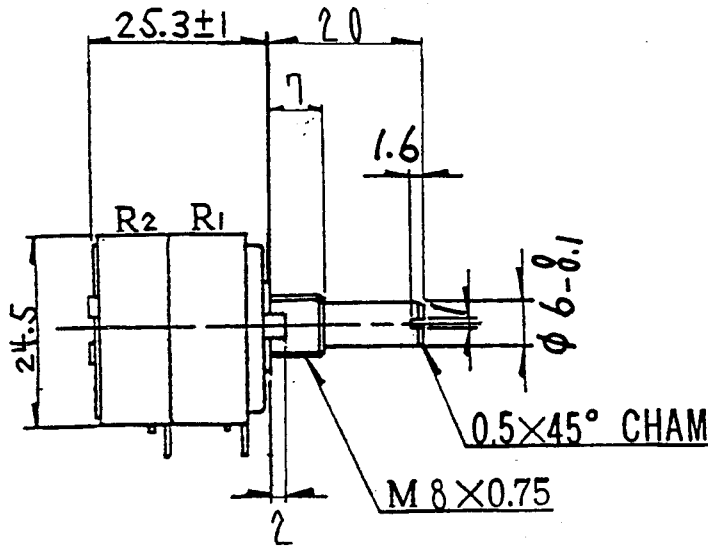
At 150 $^\circ$  C.W. shaft rotation from full C.C.W position. voltage percent shall fall within limits of 40 ~ 60 percent.

SYMB	DATE	APPD	CHKD	DSGD	TITLE
					ALPS ELECTRIC CO., LTD.
					APPD: <i>Jan 28 Mar 1 88</i> CHKD: <i>Feb 28</i> DSGD: <i>Feb 28</i>
					DOCUMENT NO. 4K272A-63 ( / )

SYMB	DATE	APPD	CHKD	DSGD	NAME	RESISTANCE TAPER
					SEP-17-80	DWG. NO
					Y. Oshimada	HSB 01

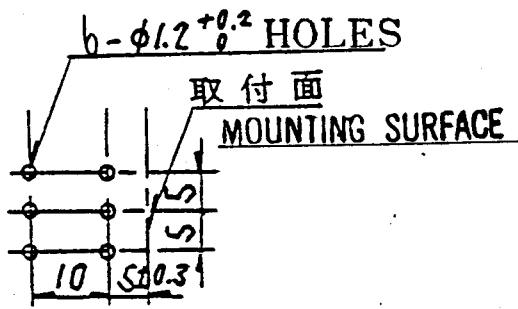
SHAFT SLOT IS OPTIONAL ANGLE

スリ割角度は任意とする。



P.W.B. MOUNTING DETAIL  
TOLERANCE ±0.1  
VIEWED FROM MOUNTING SIDE

取付穴寸法図  
許容差 ±0.1 (挿入側より)



許容差の指定なき寸法の公差	
TOLERANCES UNLESS OTHERWISE SPEC	
BASIC DIMENSIONS	TOLERANCE
$L \leq 10$	± 0.3
$10 < L < 100$	± 0.5
$100 \leq L$	± 0.8
角度 ANGULAR DIMENSION	± 5°

							300 ± 3°		
部	番	名	称	材	料	規	格	処	理
..	..	..	..	..	..	三角法	mm	尺度	150° CLICK
..	..	..	..	..	..	承認	照査	設計	図名
..	..	..	..	..	..	W生設計 57.9.7 大谷	W生設計 57.9.-6 佐々木	W生設計 57.9.08 大和	1軸2連 小型 ダイテント VR組立図
..	..	..	..	..	..	図番	K272A0A0G		59.1.20
記	号	年	月	日	承	認	用	意	設