

Customer : _____

No. _____

Attention : _____

Date : _____

Your ref. No. : _____

Your Part No. : _____

SPECIFICATIONS

PURPOSE OF THIS DOCUMENT;

ALPS' ;

- PRELIMINARY copy.
- Request for your APPROVAL.
 (New, Engineering Change)
 Please sign and return one copy.

RK271122002LA

MODEL: (50kBX2)

Spec. No. : 4K272A-63

Fig.No. : K272A0A0G

APPROVED BY, Date: _____

X

Name

Title

- For PRODUCTION.

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. Kanagaki

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 Ω max.
Residual resistance between terms 2&3 3 Ω max.
5. Slider noise: less than 47mV (by method of JIS C 6443)
6. Insulation resistance: 100M Ω 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



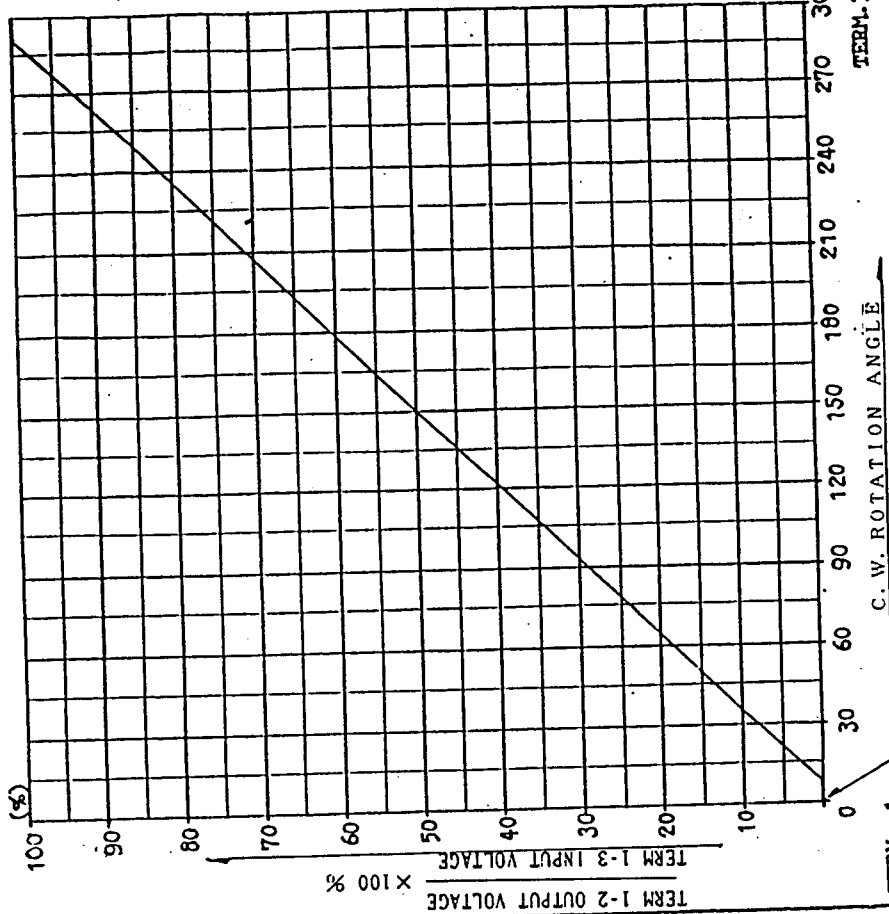
ENDURANCE

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"



FULL C.C.W POSITION

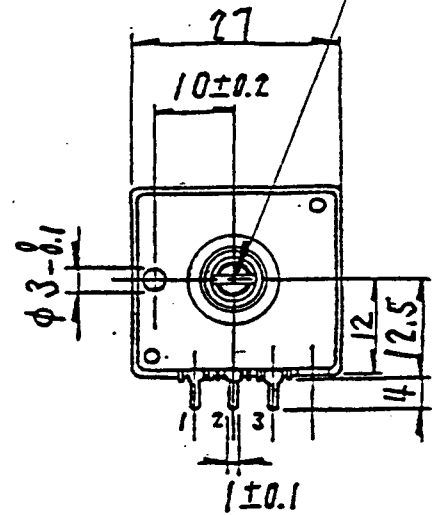
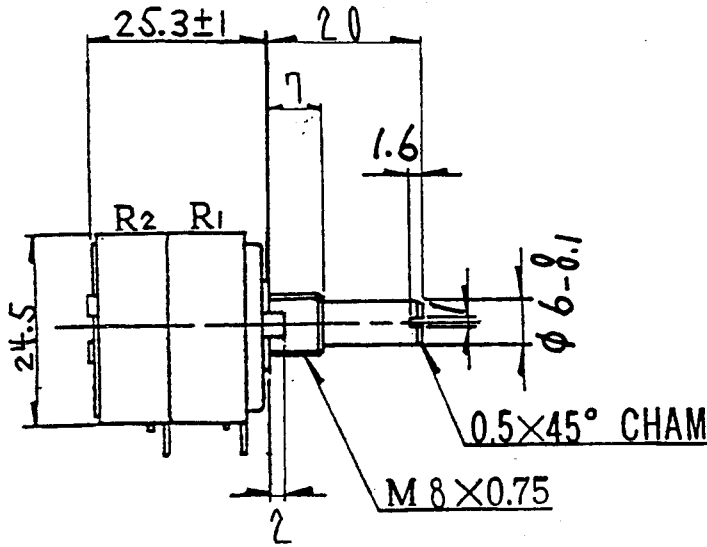
At 150 $^\circ$ C.W. shaft rotation from full C.C.W. position. voltage percent shall fall within limits of 40 ~ 60 percent.

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

SYMB	DATE	APPD	CHKD	DSCD	NAME	RESISTANCE TAPER
					Y. Oshimada	HSB 01
					APPD: <i>SEP-17-80</i>	DWG. NO
					DSCD: <i>SEP-13-80</i>	

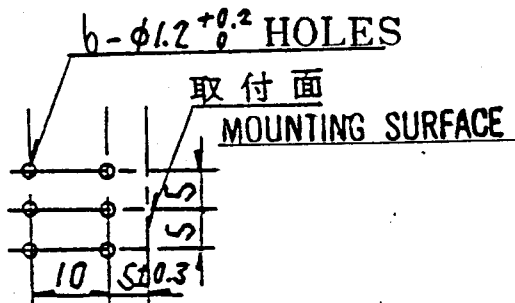
SHAFT SLOT IS OPTIONAL ANGLE

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°		
							23.2 ♀		
部	番	名	称	材	料	規	格	処	理
..	..	..	..	三角法	単位 mm	尺度	150° CLICK		
..	..	..	..	承認	照査	設計	図名		
..	..	..	..	57.9.7	57.9.-6	57.9.08	1軸2連 小型 ダイテントVR組立図		
..	..	..	..	大谷	佐々木	大和	図番		
記	号	年	月	日	承認	原	案	設	計
..	..	..	..	..	..	..	K272A0A0G	59.1.20	