

Customer: ROXBURGH ELECTRONICS LIMITED

No. FX-97-2453

Date: Jul. 10, 1997

Attention:

Your ref. No:

Your Part. No: 29 0203

WINTW

SPECIFICATIONS

ALPS

MODEL 29 0203

Spec. No. :

Sample No. : 428736

RECEIPT STATUS
RECEIVED
By. Date _____
Signature _____
Name
Title

ALPS ELECTRIC CO., LTD.

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

DSG'D *Y. Saitoh*

APP'D *Y. Ohya*

ENG. DEPT. DIVISION

Sales

SPECIFICATIONS

1. THIS SPECIFICATIONS APPLY TO RK11K1120AB0B POTENTIOMETERS.

2. CONTENTS OF THIS SPECIFICATIONS.

428736
K111G0232

3. MARKING

· MARKING ON ALL UNITS
DATE CODE, RESIST. VALUE, TAPER

4. REMARKS

· FURNISH PACKAGE
NUT: 1, WASHER: 1
· NOTES

· This unit uses polycarbonate. To be careful for using this unit in such violent gas atmospheric condition as ammonia, amine, alkaline aqueous solution, aromatic hydrocarbon, keton, ester, alkyl hydrocarbon, etc.

ITEM	FORMER SPECIFICATIONS	NEW SPECIFICATIONS	REASONS OF CHANGE
FURNISH PACKAGE	NUT:0 WASHER:0	NUT:1 WASHER:1	THIS CHANGE WAS DONE BY YOUR REQUEST.

SPECIFICATIONS

ELECTRICAL

1. Total resistance : 10 k Ω \pm 20%
2. Rated power : 0.05 W
3. 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.

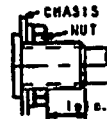
$$E = \sqrt{P \cdot R} \text{ (V)}$$
 Where
 E : Rated voltage (V)
 P : Rated power (dissipation) (W)
 R : Nominal total resistance (Ω)
 Maximum working voltage : 50 V A.C. , 20 V D.C.
4. Resistance taper : A
5. Residual resistance between term. 1&2, 2&3 : 20 Ω max.

6. Sliding noise : Less than 100 mV. (Measured by JIS C 6443)

7. Insulation resistance : More than 100 M Ω at 500V D.C.
8. Withstand voltage: 500V A.C. for one minute,

MECHANICAL

1. Total rotational angle : 300 $^{\circ}$ \pm 15 $^{\circ}$
2. Rotational torque : 30~200 gf·cm (Rotational speed 60 $^{\circ}$ /sec.)
3. Resistance to soldering heat :
 After soldering (Less than 300 $^{\circ}$ C and within 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.
4. Stopper strength : 6 kgf·cm min. (figures at break)
5. Robustness after soldering resistor shaft against end thrust and pull force :
 After installing the potentiometer, the shaft shall withstand against end thrust and pull force of more than 8 kgf.
6. Robustness at shaft against side thrust :
 After installing the potentiometer, the shaft shall withstand against side thrust of more less than 3 kgf on the end of the shaft at right angles to the axis of the shaft.
7. Shaft play :
 After installing the potentiometer, the resistor shall be mounted by soldering the mounting legs on the panel. When a side thrust of 500 gf·cm shall be applied at the end of the shaft, the total shaft play shall not exceed 0.7XL/30 mm p-p. (L: Shaft length)
8. Bushing nut tightening strength: Tightening torque to be no greater than 10 Kgf·cm.
 Pay attention otherwise the strength may not be assured.



ENDURANCE

1. Rotational life : 15,000 cycles min.

NOTE

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

ALPS ELECTRIC CO., LTD.				
APPD.	CHKD.	DSGD.	TITLE	
oct. 01. '92	oct. 01. '92	oct. 01. '92	4 2 8 7 3 6	
S. Aizawa	M. Satoh	S. Sogahara	DOCUMENT NO. _____	
SYMB	DATE	APPD	CHKD	DSGD

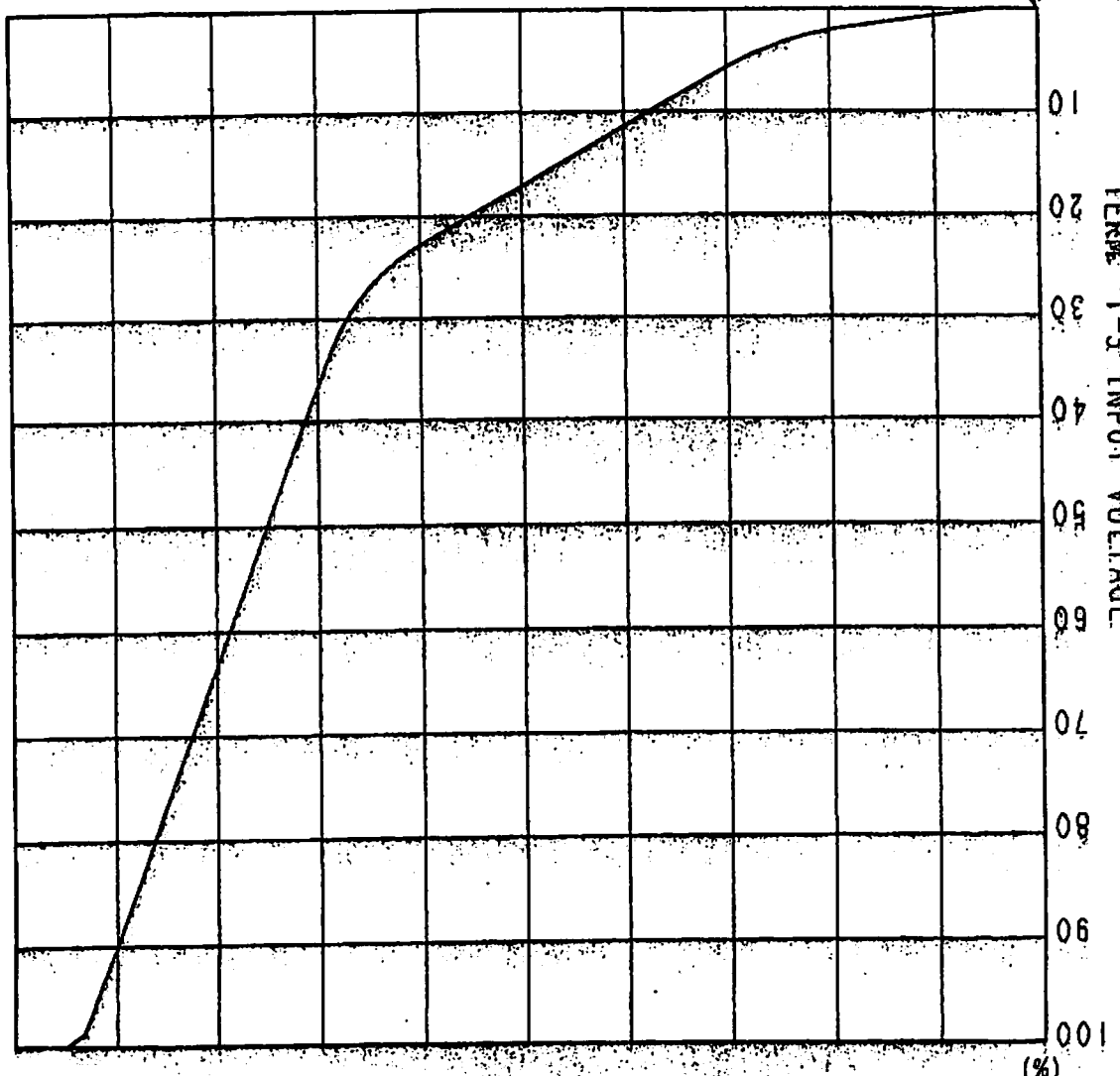
DATE	APPD	CHKD	DSGD

DOCUMENT NO. 428738

RESISTANCE TAPER A

ALPS C.W. SHUNT RESISTANCE TAPER A
 PERCENT SHALL BE ...
 ... 10-25 PERCENT ...

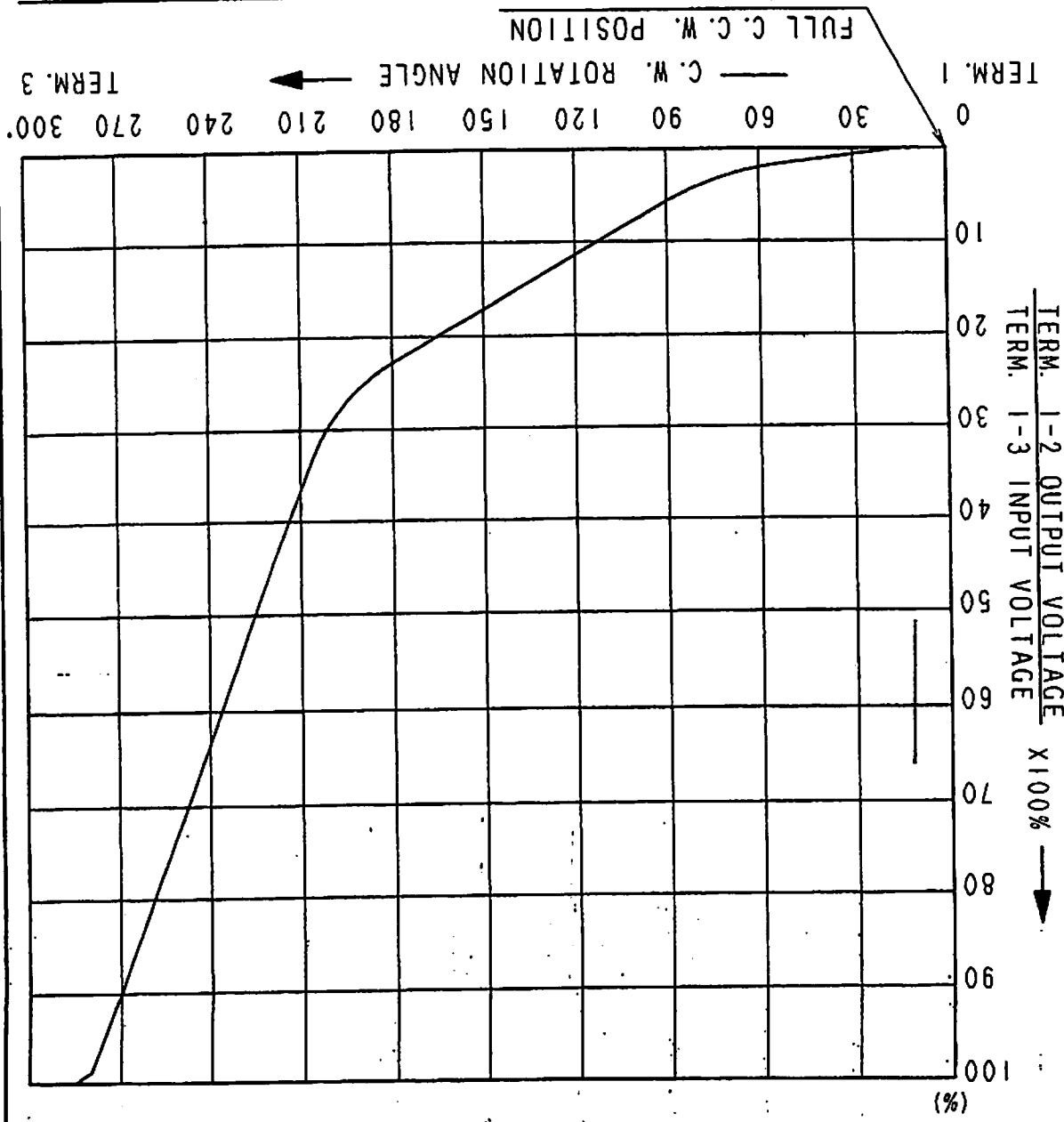
TERM. 1 ← 0 W. ROTATION ANGLE
 30 60 90 120 150 180 210 240 270 300
 TERM. 3



TERM. 1-2 OUTPUT VOLTAGE X100%
 TERM. 1-3 INPUT VOLTAGE

SYMB	DATE	APPD	CHKD	DSGD	H. Inoue	K. Nagami	S. Sasaki	428736
					May. 27, '92	May. 27, '92	May. 27, '92	DOCUMENT NO.
					APPD.	CHKD.	DSGD.	NAME
								RESISTANCE TAPER
								A

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



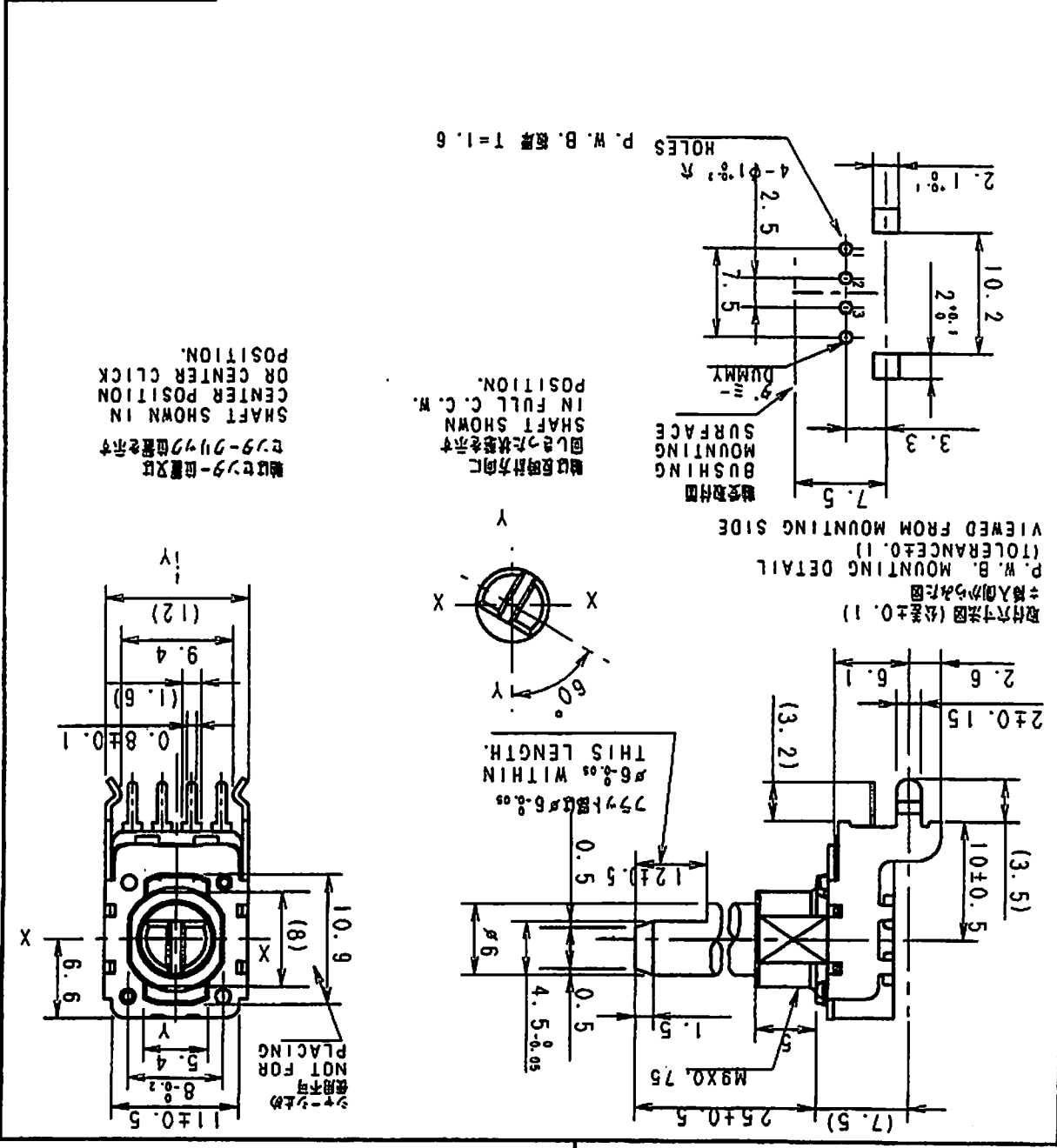
SYMB	DATE	APPD	CHKD	DSGD	APPD.	R. ARASAWA '94-07-20	UNIT	III	DOCUMENT NO.	K111G0Z32	F05
					CHKD.	M. SAITOH '94-07-20			TITLE	11形電圧検出器ボリコ-4組立図	
					DSGD.	Y. SAITOH '94-07-20	SCALE	2:1		428736	

ALPS ELECTRIC CO., LTD.

PART NO.	NAME	MATERIAL NAME / CODE	FINISH

角	±0.3
100 M	±0.5
10 < L < 100	±0.5
L < 10	±0.3
ANGULAR DIMENSION	±5°

TOLERANCES UNLESS OTHERWISE SPECIFIED



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