

Customer: ALPS EUROPE DISTRIBUTION

No. GM-2006-1270

Date: Aug. 23, 2006

Attention:

Your ref. No.:

Your Part No.: RK16812MG 8036

## SPECIFICATIONS

ALPS';

MODEL: RK16812MG  
(100kd X2)

Spec. No.:

Sample No.: F 3 3 5 1 6 9 2 M

### RECEIPT STATUS

#### RECEIVED

By Date

Signature

Name

Title

**ALPS**  
**ALPS ELECTRIC CO., LTD.**

Head Office  
1-7, Yukigaya-otsuka-cho, Ota-ku, Tokyo, 145-8501 Japan  
Phone, +81(3)3726-1211

DSG'D

*Y. Ohya*

APP'D

*S. Wada*

ENG. DEPT. DIVISION

Sales

B6523

Q1003#03A (EA)

# S P E C I F I C A T I O N S

1. THIS SPECIFICATIONS APPLY TO RK16812MG POTENTIOMETER.

2. CONTENTS OF THIS SPECIFICATIONS.

F3351692M

K162FMG03P

3. MARKING

- MARKING ON ALL UNITS

EIA DATE CODE, RESIST. VALUE, TAPER

4. REMARKS

- FURNISH PACKAGE

NUT:1 WASHER:1

## • CAUTION

Regardless of the suggested applications of these products being introduced in the specifications, when using them for equipment and devices requiring a high degree of safety, respective manufacturers will please preserve safety of the planned equipment and devices by providing necessary protective circuits and redundancy circuits and reconfirm if safety is being duly preserved.

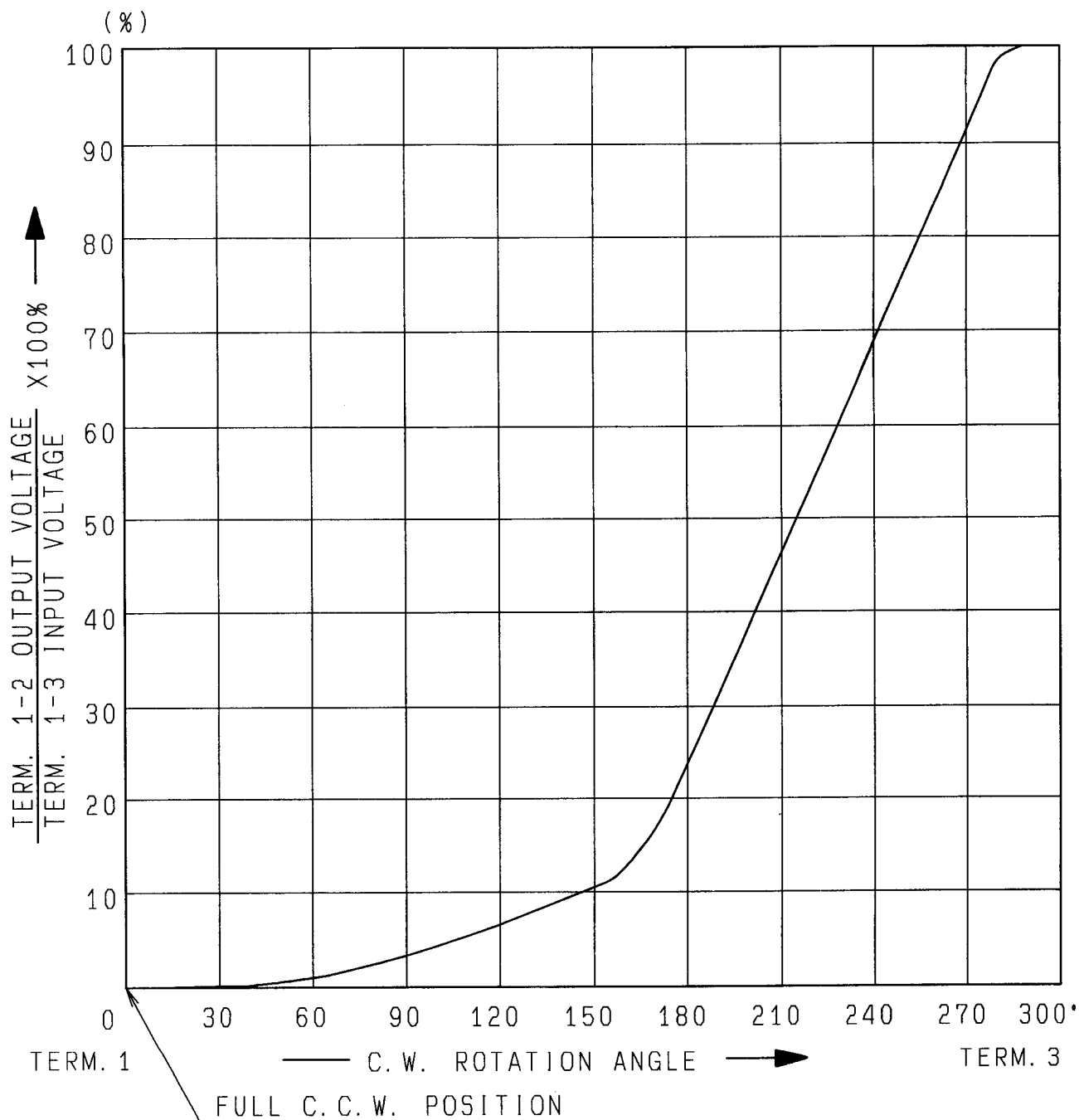
Products being introduced in the specifications have been designed and manufactured for applications to ordinary electronic equipment and devices such as the AV equipment, electric home appliances, office machines and communications equipment. Consequently, when employing these products for applications requiring a high degree of safety and reliability such as the medical equipment, aviation and aircraft equipment, space equipment and burglar alarm equipment, the using manufacturers will please thoroughly study the proprieties of these products for the planned applications.

Although we are exerting our best efforts to maintain the quality of these products, we cannot guarantee that they will never cause short circuiting and open circuitry. Therefore, when designing an equipment or device with which the priority is given to the safety, you will please carefully study the influences to the whole equipment of a single function failure of Potentiometers and Encoders in advance to make out a fail-safe design providing.





ALPS ELECTRIC CO., LTD  
1-7 YUKIGAYA OTSUKA-CHO OTA-KU TOKYO JAPAN



AT 150° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 6-15 PERCENT.

					APPD.	CHKD.	DSGD.	NAME
					Nov. 05, '93	Nov. 05, '93	Nov. 05, '93	RESISTANCE TAPER ( D )
					K. Magami	K. Sasaki	K. Suzuki	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				F3351692M

GMOTOR

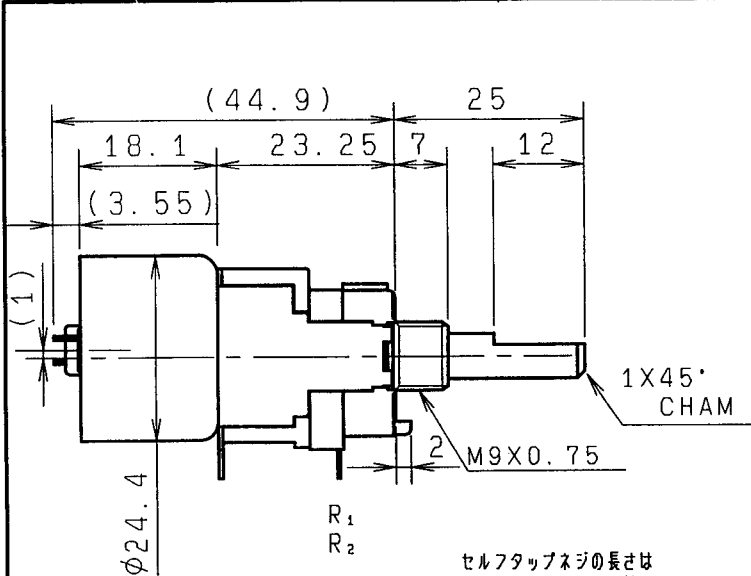
# SPECIFICATIONS

## Note

1. The standard test shall be subject to temperature from 5°C to 35°C and relative humidity from 45% to 85%. Test shall be done under environmental requirements of a temperature of 20±2°C and relative humidity of 65±5% if a decision is in question.
2. Notice on motor
  - 1). Motor terminals shall not be bent more than twice.
  - 2). Soldering to the motor terminals shall be within a few second. not to cause the transformation of terminal base plastics. And ,avoid that the flux flows into the motor. Pay special attention to the terminals when they are wave soldered. If the flux flows into the motor, it may cause a poor contact .
  - 3). Motor terminal should not be pressed inside the motor. It may cause a poor contact in the motor.
  - 4). Pay attention that a piece of Iron and an alien substance are not crepted into the motor.
  - 5). In operation, temperature arround the motor produce an effect on the performance and life. Pay special attention in high temperature and humidity. Storage in high temperature and humidity, and in corrosive gas, shall be avoided.
  - 6). In case using the adhesive agent and the seal agent etc. for fit up, make sure that there is no generation of the harmful gas for motor. (Including all chemicals arround the motor.) Pay special attention to cyanogen system adhesive agent and organically system silicone.
3. Power supply.
 

Regulated D.C. power supply shall be used.  
(ripple to be 1% max. )Motor terminal shall not be conected with fixed resistors in series. And supply current is to be 350mA min.
4. The items except above mentioned items shall meet or exceed JIS C 6443.

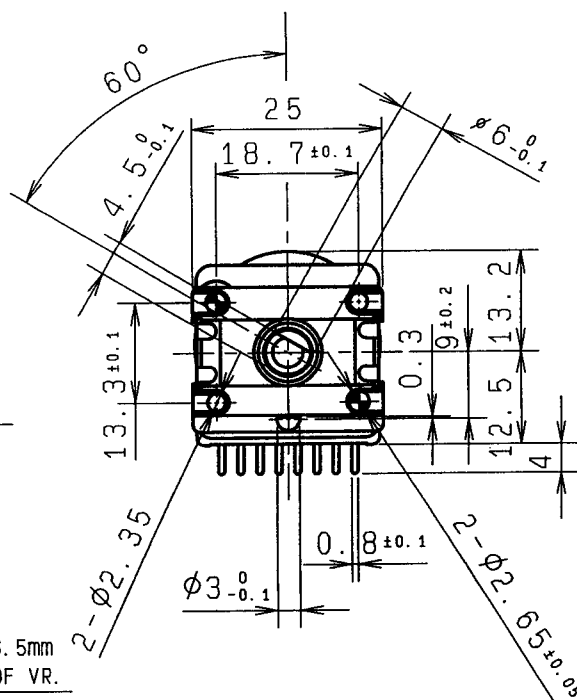
					<b>ALPS ELECTRIC CO., LTD.</b>			
					APPD.	CHKD.	DSGD.	TITLE
					Nov 08, '93	Nov 08, '93	Nov 08, '93	F 335 1692 M
					S. Aizawa	M. Satoh	Y. Saitoh	DOCUMENT NO.
SYMB	DATE	APPD	CHKD	DSGD				RK168



セルフタップネジの長さは  
取付面より6.5mm以下のこと  
LENGTH OF SELF-TAPPING  
SCREW SHALL BE WITHIN 6.5mm  
FROM MOUNTING SURFACE OF VR.

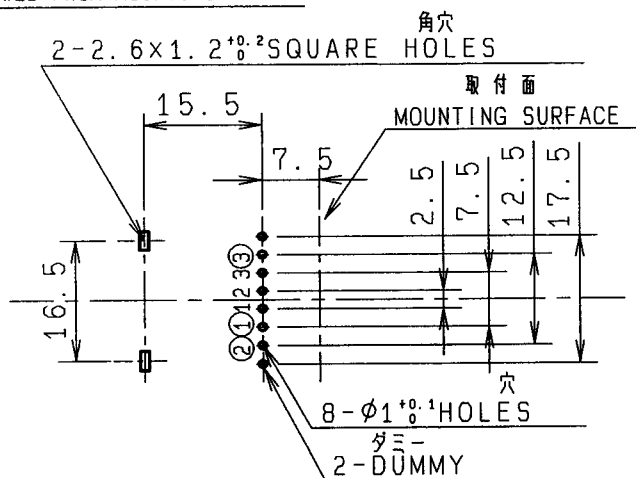
取付穴寸法図 許容差±0.1  
(挿入側から見た図)

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



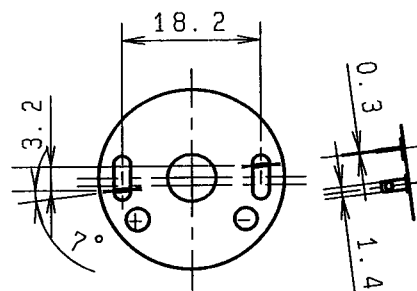
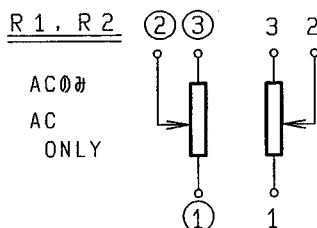
上図は軸を反時計方向に  
回し切った状態を示す

SHAFT SHOWN  
IN FULL CCW POSITION



R1 ①②③  
R2 1 2 3

回路図  
CIRCUIT



モータ背面図  
BACK VIEW

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

PART NO.		NAME		MATERIAL NAME / CODE		FINISH	
<b>ALPS ELECTRIC CO., LTD.</b>							
DSGD. 1-セック41				SCALE 1 : 1		NO. 1軸2連 照光無し 1T独立	
Y. OHYA 2001-05-10				CHKD.		TITLE FIGURE	
APPD.				UNIT		DOCUMENT NO.	
SYMB				DATE		K162FMG03P	
APPD.				CHKD.		DSGD.	
2001-05-11				m m		50.2g	