



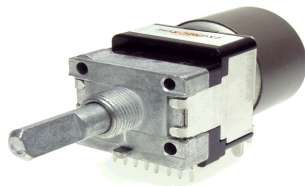
ALPS RK16812MG 100KDx2 2-fach
logarithmisch stereo
HighEnd-Motorpotentiometer

www.potentiometer4audio.de



ALPS RK16812MG 100KDx2 dual
logarithmicmotorized rotary
potentiometer

www.potentiometer4audio.eu



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No. GM-2006-1270

Date: Aug. 23, 2006

Attention:

Your ref. No.:

Your Part No.:

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

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DSG'D

Y. Ohya

APP'D

S. Mida

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.

SPECIFICATIONS

Electrical specifications

1. Total resistance : 100k $\pm$ 20%
2. Rated power : 0.05 W

3. Rated voltage

The rated volta

(commercial fre

(dissipation), a

however, the ma

where E : Rated value

P : Rated P

R : Nominal

Maximum working voltage

4. Resistance taper : D

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
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6. Insertion loss at full

8. Gang error : 5 dB max

3 dB max

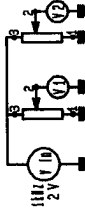
9. Insulation resistance

Normal operation

at both ends

1 Rotational life : 15,000 cycles min.

1. Rotational life : 15,000 cycles min.



9. Insulation resistance

Potentiometer section

Motor section

0. withstand voltage

Potentiometer section : 300V A.C. for 1 minute.

1. Supply voltage for motor : 4~6V D.C.

2. Rated voltage for motor : 4.5V D.C.

3. Motor current (at 4.5V D.C. applied to motor)

Normal operation : 100mA max.

Slipping operation

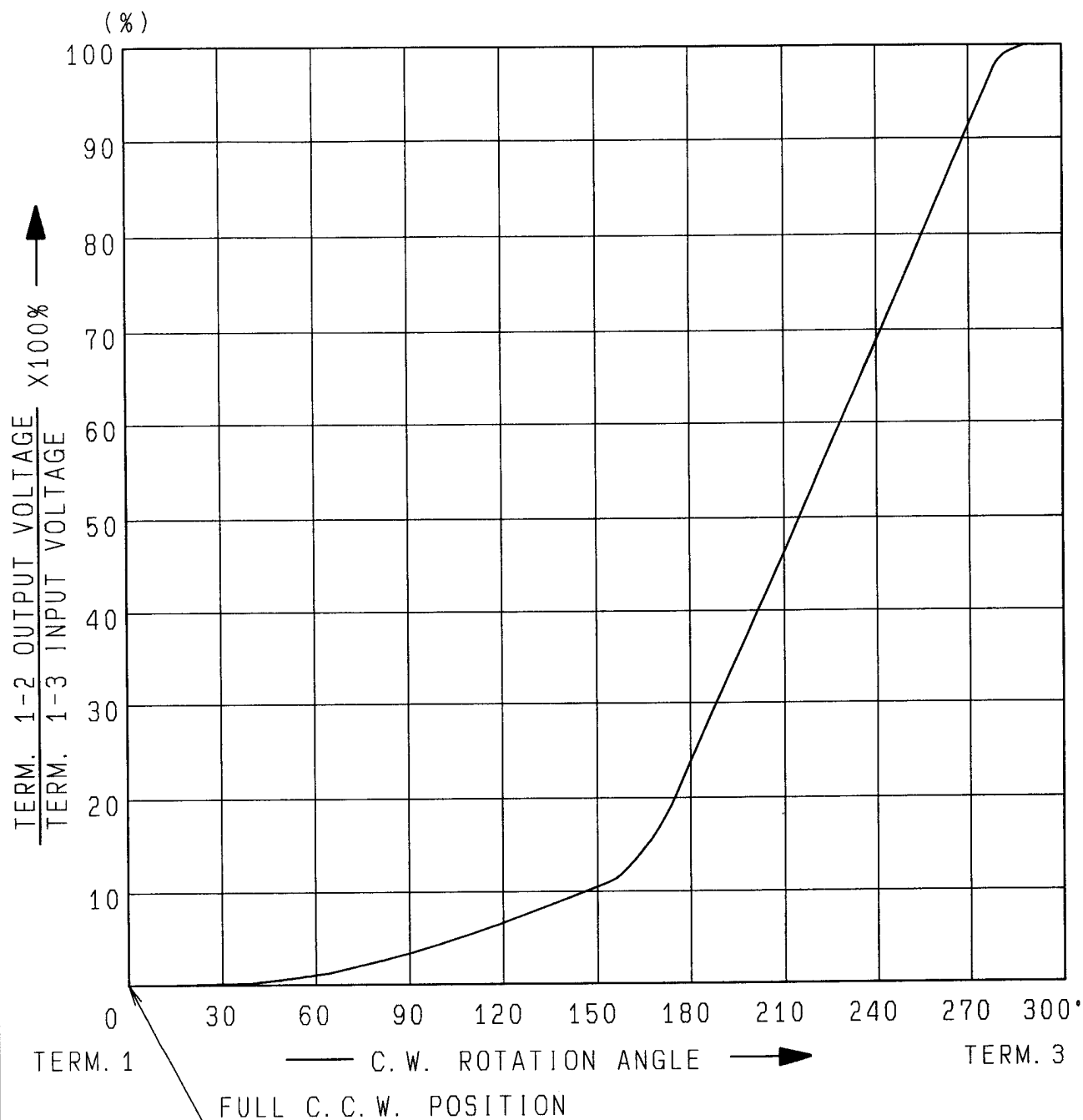
at both ends : 150mA max.

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[illegible][illegible]



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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.

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				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">APPD.</td> <td style="width: 25%;">CHKD.</td> <td style="width: 25%;">DSGD.</td> <td style="width: 25%;">TITLE</td> </tr> <tr> <td>Nov 08, '93</td> <td>Nov 08, '93</td> <td>Nov 08, '93</td> <td>F 3351692M</td> </tr> <tr> <td>S. Aizawa</td> <td>M. Satoh</td> <td>Y. Saitoh</td> <td>DOCUMENT NO.</td> </tr> <tr> <td></td> <td></td> <td></td> <td>RK168</td> </tr> </table>	APPD.	CHKD.	DSGD.	TITLE	Nov 08, '93	Nov 08, '93	Nov 08, '93	F 3351692M	S. Aizawa	M. Satoh	Y. Saitoh	DOCUMENT NO.				RK168
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