

KG Series

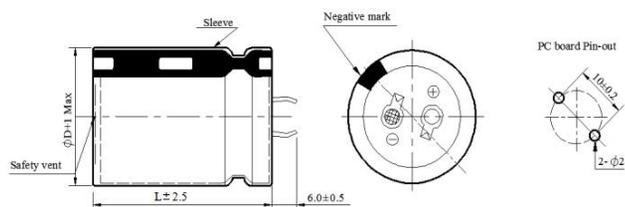
- Load life 5,000 hours at 125°C.
- High ripple current, High reliability.

◆ **SPECIFICATIONS**

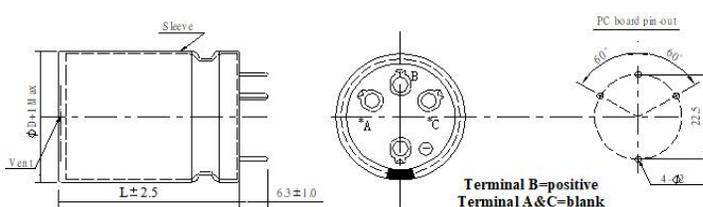
Item	Performance Characteristics										
Category Temperature Range	-40 ~ +125°C										
Working Voltage Range	10~ 100Vdc										
Capacitance Range	680~47,000μF										
Capacitance Tolerance	±20% (at 20°C and 120Hz)										
Dissipation Factor (tan δ) (at 20°C, 120Hz)	Rated Voltage (V)	10	16	25	35	50	63	80	100		
	tan δ (Max)	0.35	0.35	0.35	0.25	0.25	0.25	0.20	0.15		
The above values should be increased by 0.02 for every additional 1000μF											
Leakage Current	$I \leq 3 \sqrt{CV}$ I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Apply rated voltage the rated voltage for 5 minutes.										
Low Temperature Characteristics Impedance Ratio(MAX)	Rated Voltage (V)	10	16	25	35	50	63	80	100		
	Z(-40°C)/Z(+20°C)	15	15	10	8	6	6	5	5	(at 120Hz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 5,000 hours at 125°C.										
	Capacitance change	≒ ±20% of the initial value									
	Dissipation factor(tan δ)	≒ 200% of the specified value									
	Leakage current	≒ specified value									
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 125°C without voltage applied.										
	Capacitance change	≒ ±20% of the initial value									
	Dissipation factor(tan δ)	≒ 200% of the specified value									
	Leakage current	≒ 200% of the specified value									
Others	Conforms to JIS-C-5101-4 (1998) and IEC 60384-4										

◆ **DIMENSIONS(mm)**

Terminal Code :S2

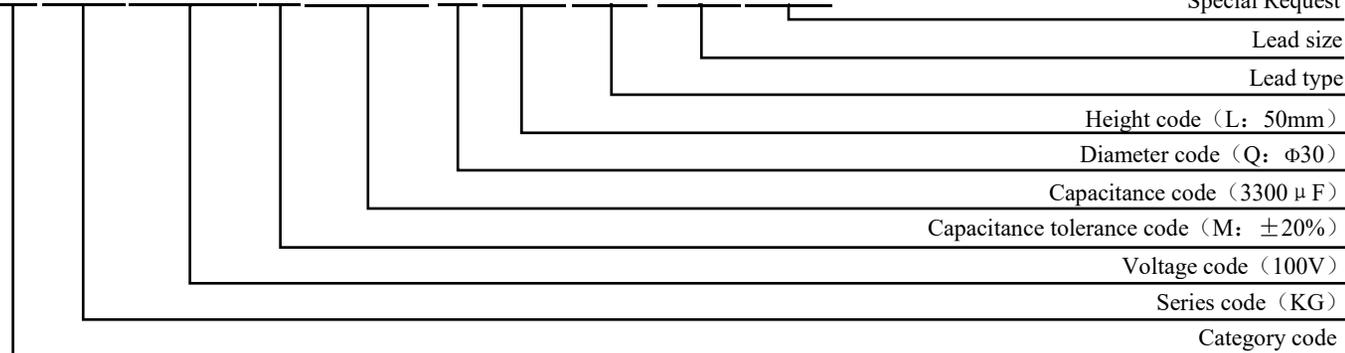


Terminal Code :S4



◆ **PART NUMBER SYSTEM(Example : 100V 3300μF)**

E K G 1 0 0 M 3 3 2 Q 5 0 S 2 6 0 A A



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◆ Case size & Permissible rated ripple current: (mA rms) at 125°C / 120Hz

uF	Vdc		10								uF	Vdc		16							
	ΦD	RC	Φ 22		Φ 25		Φ30		Φ35			ΦD	RC	Φ 22		Φ 25		Φ30		Φ35	
			ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC				ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
6800	22×25	1125								5600	22×25	1180									
8200	22×30	1210	25×25	1210						6800	22×30	1320	25×25	1320							
10000	22×35	1448	25×30	1448						8200	22×35	1450	25×30	1450	30×25	1450					
12000	22×40	1650	25×35	1650	30×25	1650				10000	22×40	1680	25×35	1680	30×30	1680					
15000	22×45	1900	25×40	1900	30×30	1900				12000	22×45	1900	25×40	1900	30×35	1900					
18000	22×50	2100	25×45	2100	30×35	2100	35×25	2100		15000	22×50	2200	25×45	2200	30×40	2200	35×25	2200			
22000			25×50	2480	30×40	2480	35×30	2480		18000			25×50	2530	30×45	2530	35×30	2530			
27000					30×45	2750	35×35	2750		22000					30×50	2950	35×35	2950			
33000					30×50	3115	35×40	3115		27000							35×40	3253			
39000							35×45	3570		33000							35×45	3700			
47000							35×50	3750		39000							35×50	3980			

uF	Vdc		25								uF	Vdc		35							
	ΦD	RC	Φ 22		Φ 25		Φ30		Φ35			ΦD	RC	Φ 22		Φ 25		Φ30		Φ35	
			ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC				ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
3900	22×25	1120								2700	22×25	1055									
4700	22×30	1250	25×25	1250						3300	22×30	1180									
5600	22×35	1380	25×30	1380						3900	22×35	1355	25×25	1355							
6800	22×40	1550	25×35	1550						4700	22×40	1450	25×30	1450	30×25	1450					
8200	22×45	1790	25×40	1790	30×25	1790				5600	22×45	1680	25×35	1680	30×30	1680					
10000	22×50	2020	25×45	2020	30×30	2020	35×25	2020		6800	22×50	1850	25×40	1850	30×35	1850	35×25	1850			
12000			25×50	2320	30×35	2320	35×30	2320		8200			25×45	2320	30×40	2320	35×30	2320			
15000					30×40	2730	35×35	2730		10000			25×50	2500	30×45	2500	35×35	2500			
18000					30×45	3020	35×40	3020		12000					30×50	2800	35×40	2800			
22000					30×50	3400	35×45	3400		15000							35×45	3230			
27000							35×50	4010		18000							35×50	3800			

uF	Vdc		50								uF	Vdc		63							
	ΦD	RC	Φ 22		Φ 25		Φ30		Φ35			ΦD	RC	Φ 22		Φ 25		Φ30		Φ35	
			ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC				ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
1500	22×25	1040								1000	22×25	920									
1800	22×30	1150	25×25	1150						1200	22×30	1010									
2200	22×35	1420	25×30	1420						1500	22×35	1020	25×25	1020							
3300	22×40	1650	25×35	1650	30×25	1650				1800	22×40	1318	25×30	1318							
3900	22×45	1850	25×35	1850	30×30	1850				2200	22×45	1510	25×35	1510	30×25	1510					
4700	22×50	2140	25×40	2150	30×35	2140	35×25	2140		2700	22×50	1720	25×40	1720	30×30	1720					
5600			25×50	2310	30×40	2310	35×30	2310		3300			25×45	1950	30×35	1950	35×25	1950			
6800					30×45	2790	35×35	2790		3900			25×50	2118	30×40	2118	35×30	2118			
8200					30×50	3050	35×40	3050		4700					30×45	1950	35×35	1950			
10000							35×45	3430		5600					30×50	2205	35×40	2205			
12000							35×50	3910		6800							35×45	3150			
										8200							35×50	3380			

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◆ **Case size & Permissible rated ripple current: (mA rms) at 125°C / 120Hz**

Vdc ΦD uF	80								Vdc ΦD uF	100							
	Φ 22		Φ 25		Φ 30		Φ 35			Φ 22		Φ 25		Φ 30		Φ 35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
820	22×25	940							680	22×25	1010						
1000	22×30	1030	25×25	1030					820	22×30	1120	25×25	1120				
1200	22×35	1180	25×30	1180					1000	22×35	1250	25×30	1250				
1500	22×40	1350	25×35	1350	30×25	1350			1200	22×40	1430	25×35	1430	30×25	1430		
1800	22×45	1550	25×40	1550	30×30	1550			1500	22×45	1680	25×40	1680	30×30	1680		
2200	22×50	1780	25×45	1780	30×35	1780	35×25	1700	1800	22×50	1880	25×45	1880	30×35	1880	35×25	1880
2700			25×50	2020	30×40	2020	35×30	2020	2200			25×50	2302	30×40	2302	35×30	2302
3300					30×45	2300	35×35	2300	2700					30×45	2430	35×35	2430
3900					30×50	2610	35×40	2610	3300					30×50	2780	35×40	2780
4700							35×45	2920	3900							35×45	3110
5600							35×50	3280	4700							35×50	3220

◆ **RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Vdc	Frequency (Hz)				
	50	120	1K	10K	≥50K
10 ~ 100	0.95	1.00	1.05	1.08	1.08