

KG series

Features

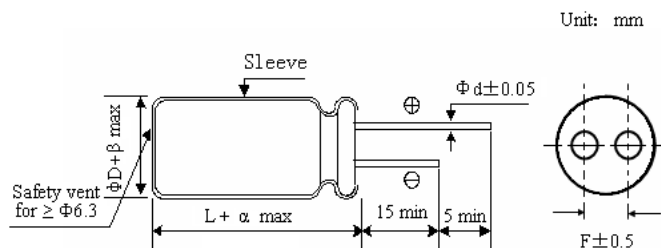
- ◆ For general purpose, -55°C to +105°C, 2000 to 4000 hours.
- ◆ Wide CV value range.
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics																											
Temperature Range	-55~+105°C																											
Rated Voltage Range	6.3~100Vdc																											
Capacitance Range	10~22000µF																											
Capacitance Tolerance	±20% (120Hz, +20°C)																											
Leakage Current (+20°C,max.)	I≤0.01CV 或 3 (µA) After 2 minutes, whichever is greater measured with rated working voltage applied																											
Dissipation Factor (tgδ) 120Hz, +20°C	<table border="1"> <tr> <td>Working Voltage(Vdc)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>D.F (%) max.</td> <td>28</td> <td>24</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>8</td> </tr> </table>	Working Voltage(Vdc)	6.3	10	16	25	35	50	63	100	D.F (%) max.	28	24	20	16	14	12	10	8									
	Working Voltage(Vdc)	6.3	10	16	25	35	50	63	100																			
D.F (%) max.	28	24	20	16	14	12	10	8																				
For capacitance>1000µF , Add 2% per another 1000µF (120Hz, +20°C)																												
Low Temperature Characteristics(120Hz)	Impedance ratio max.																											
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	Working Voltage(Vdc)	6.3	10	16	25	35	50	63	100																			
Z-25°C/ Z+20°C	4	3	2	2	2	2	2	2																				
Z-40°C/ Z+20°C	10	8	6	4	3	3	3	3																				
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 the specified period of time at 105°C																												
Endurance	Time	Φ5 to Φ6:2000hours, Φ8 to Φ10:3000hours, ≥Φ13:4000hours																										
	Capacitance Change	≤±20% of the initial value																										
	D.F.(tgδ)	≤200% of the initial specified value																										
	Leakage Current	≤The initial specified value																										
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the load life characteristics listed above.																											
Others	JISC-5101(IEC 60384)																											

Diagram of Dimensions



Frequency Multipliers

µF \ Hz	60	120	1K	10K	100K
<47	1.00	1.55	1.80	2.00	2.00
47~470	1.00	1.35	1.50	1.50	1.50
>470	1.00	1.10	1.15	1.15	1.15

ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8
α	(L< 20) + 1.5		(L≥20) + 2.0				
β	(D< 20) + 0.5		(D≥20) + 1.0				

KG series**Standard Ratings**

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
47							5×11	91
100					5×11	110	6.3×11	130
220	5×11	140	6.3×11	180	6.3×11	180	8×12	230
330	6.3×11	180	6.3×11	200	8×12	260	8×12	310
470	6.3×11	230	6.3×11	240	8×12	310	10×12	380
1000	8×12	380	10×12	460	10×17	560	10×20	680
2200	10×17	710	10×20	760	13×20	920	13×20	988
3300	10×20	840	13×20	1000	13×25	1170	16×25	1400
4700	13×20	1090	13×25	1260	16×25	1480	16×30	1755
6800	13×25	1350	16×25	1570	16×30	1780	16×35	1910
10000	16×25	1650	16×30	1890	16×35	1930		
15000	16×30	2010	16×40	2170				
22000	18×35	2350						

Voltage	35V		50V		63V		100V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
10			5×11	39	5×11	46	6.3×11	54
22			5×11	65	5×11	71	6.3×11	93
33			5×11	90	6.3×11	100	8×12	130
47	5×11	90	6.3×11	110	6.3×11	120	10×12	165
100	6.3×11	150	8×12	180	10×12	215	10×20	265
220	8×12	270	10×17	330	10×20	370	13×25	440
330	10×12	350	10×17	410	13×20	578	13×25	600
470	10×17	460	10×20	530	13×20	640	16×25	715
1000	13×20	810	13×25	950	16×25	930	18×40	1040
2200	16×25	1260	16×25	1570	18×35	1610		
3300	16×30	1610	18×35	1770				
4700	18×35	1910						

Max Allowable Ripple Current (mA,rms) at 105°C 120Hz, Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.