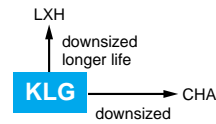


KLG Series

- No sparks against DC over-voltage
- Same case sizes of KMG
- Endurance with ripple current : 105°C 2000 hours
- Non solvent-proof type

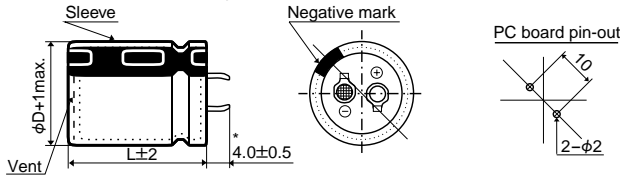


◆ SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-25 to +105°C	
Rated Voltage Range	200 & 400V _{dc}	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
Leakage Current	I=0.02CV or 3mA, whichever is smaller. Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 5 minutes)	
Dissipation Factor (tanδ)	200V _{dc} : 0.10 max. (0.15 max. for φD=35mm) 400V _{dc} : 0.15 max. (at 20°C, 120Hz)	
Low Temperature Characteristics	Max. Impedance Ratio : Z(-25°C)/Z(+20°C) ≤ 4 (at 120Hz)	
ESL	50nH max. (at 20°C, 1MHz)	
DC Overvoltage Test	When an excessive DC voltage is applied to the capacitors under the test conditions on next page, the vent shall operate and then the capacitors shall become open-circuit without burning materials.	
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 2000 hours at 105°C.	
	Capacitance change	≤ ±20% of the initial value
	D.F. (tanδ)	≤ 200% of the initial specified value
	Leakage current	≤ The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.	
	Capacitance change	≤ ±20% of the initial value
	D.F. (tanδ)	≤ 150% of the initial specified value
	Leakage current	≤ The initial specified value

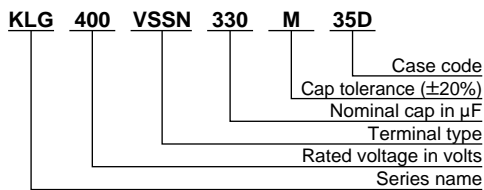
◆ DIMENSIONS [mm]

- Standard Terminal Type : VSSN (φ22 to φ35)



* : φD=35mm : 3.5±0.5mm

◆ PART NUMBERING SYSTEM



◆ CASE CODE [mm]

Case code	Case size φDXL	Case code	Case size φDXL	Case code	Case size φDXL	Case code	Case size φDXL
22S	22×20	25S	25.4×20	—	—	—	—
22A	22×25	25A	25.4×25	30A	30×25	35A	35×25
22B	22×30	25B	25.4×30	30B	30×30	35B	35×30
22C	22×35	25C	25.4×35	30C	30×35	35C	35×35
22D	22×40	25D	25.4×40	30D	30×40	35D	35×40
22E	22×45	25E	25.4×45	30E	30×45	35E	35×45
22F	22×50	25F	25.4×50	30F	30×50	35F	35×50

◆ RATED RIPPLE CURRENT MULTIPLIERS

- Frequency Multipliers

Frequency (Hz)	50	120	300	1k	10k	50k
200V _{dc}	0.81	1.00	1.17	1.32	1.45	1.50
400V _{dc}	0.77	1.00	1.16	1.30	1.41	1.43

◆STANDARD RATINGS

μF	V _{dc} φD	200			
		22	25.4	30	35
100	22×20 0.50	← Upper : Case size φDXL (mm) ← Lower : Rated ripple current (Arms) at 105°C, 120Hz			
120	22×20 0.56				
150	22×20 0.66	25.4×20 0.65			
180	22×25 0.80	25.4×20 0.70			
220	22×25 0.92	25.4×20 0.77			
270	22×30 1.00	25.4×25 1.00	30×20 1.00		
330	22×35 1.13	25.4×30 1.13			
390	22×40 1.25	25.4×30 1.18	30×25 1.20		
470	22×45 1.32	25.4×35 1.32	30×30 1.32		
560	22×50 1.52	25.4×40 1.50	30×30 1.52	35×25 1.43	
680		25.4×50 1.70	30×35 1.73	35×30 1.73	
820			30×40 1.93	35×35 1.93	
1,000			30×50 2.20	35×40 2.20	
1,200				35×45 2.41	
1,500				35×50 2.82	

μF	V _{dc} φD	400			
		22	25.4	30	35
33	22×20 0.29	← Upper : Case size φDXL (mm) ← Lower : Rated ripple current (Arms) at 105°C, 120Hz			
39	22×20 0.30				
47	22×25 0.36	25.4×20 0.35			
56	22×25 0.39	25.4×20 0.44			
68	22×30 0.51	25.4×25 0.49			
82	22×35 0.56	25.4×30 0.53			
100	22×40 0.61	25.4×30 0.64	30×25 0.62		
120	22×45 0.67	25.4×35 0.69	30×30 0.68		
150	22×50 0.77	25.4×40 0.78	30×30 0.76	35×25 0.74	
180		25.4×45 0.83	30×35 0.82	35×30 0.90	
220		25.4×50 0.93	30×40 0.91	35×35 0.99	
270			30×45 1.10	35×35 1.12	
330			30×50 1.24	35×40 1.25	
390				35×45 1.37	
470				35×50 1.50	

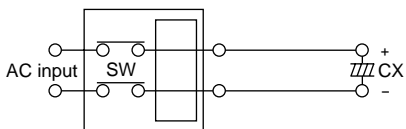
◆DC OVERVOLTAGE TEST CONDITIONS

The vent will operate and the capacitor shall become an open circuit without burning materials when the following excess DC voltage is applied.

●Test DC voltage

Rated Voltage	Capacitance	Current limit	Test DC voltage
200V _{dc}	<330μF	4A	300/375V _{dc}
	330≤C<470μF	5A	
	≥470μF	7A	
400V _{dc}	<100μF	2A	500/600V _{dc}
	100≤C<220μF	4A	
	≥220μF	7A	

●Test Circuit



Constant DC voltage/current power supply

●105°C Endurance with Rated Ripple Current

