

KLG Series

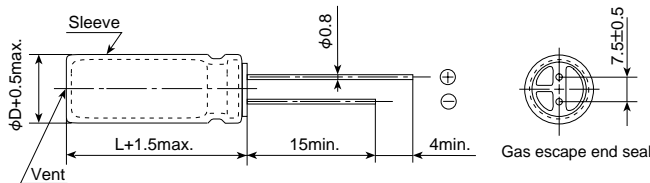
- No sparks against DC over-voltage
- Endurance with ripple current : 105°C 2000 hours
- Non solvent-proof type



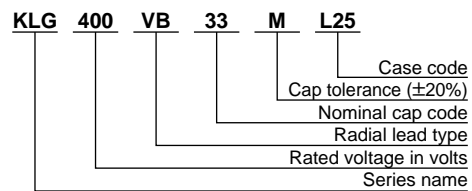
◆ SPECIFICATIONS

Items	Characteristics			
Category	-25 to +105°C			
Temperature Range	-25 to +105°C			
Rated Voltage Range	200 & 400V _{dc}			
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)			
Leakage Current	I=0.04CV+100 (at 20°C after 1 minute) Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)			
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	200V	400V	(at 20°C, 120Hz)
	tanδ (Max.)	0.20	0.24	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	200V	400V	(at 120Hz)
	Z(-25°C)/Z(+20°C)	4	6	
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)	≤200% of the initial specified value		
	Leakage current	≤500% of the initial specified value		

◆ DIMENSIONS (Radial Lead Type=VB) [mm]



◆ PART NUMBERING SYSTEM



◆ STANDARD RATINGS

μF	Items	200		
		Case size φDXL (mm)	Case code	Rated ripple current (mA _{RMS} /105°C, 120Hz)
82	16×20	L20	230	KLG200VB82ML20
100	16×25	L25	425	KLG200VB100ML25
	18×20	M20	250	KLG200VB100MM20
120	16×31.5	L31	500	KLG200VB120ML31
	18×25	M25	475	KLG200VB120MM25
130	18×20	M20	285	KLG200VB130MM20
150	16×31.5	L31	560	KLG200VB150ML31
	18×20	M20	315	KLG200VB150MM20
	18×25	M25	530	KLG200VB150MM25
180	16×40	L40	645	KLG200VB180ML40
	18×31.5	M31	630	KLG200VB180MM31
220	18×35.5	M35	725	KLG200VB220MM35
	18×40	M40	735	KLG200VB220MM40
270	18×45	M45	830	KLG200VB270MM45
330	18×45	M45	920	KLG200VB330MM45

μF	Items	400		
		Case size φDXL (mm)	Case code	Rated ripple current (mA _{RMS} /105°C, 120Hz)
22	16×20	L20	145	KLG400VB22ML20
	16×25	L25	200	KLG400VBML25
33	16×25	L25	220	KLG400VB33ML25
	18×20	M20	225	KLG400VB33MM20
39	16×31.5	L31	245	KLG400VB39MML31
	18×25	M25	250	KLG400VB39MM25
47	16×31.5	L31	275	KLG400VB47ML31
	18×25	M25	280	KLG400VB47MM25
56	16×40	L40	350	KLG400VB56ML40
	18×31.5	M31	315	KLG400VB56MM31
68	18×35.5	M35	350	KLG400VB68MM35
82	18×40	M40	395	KLG400VB82MM40
100	18×40	M40	450	KLG400VB100MM40

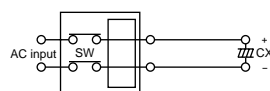
◆ DC OVERVOLTAGE TEST CONDITIONS

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

● Test DC voltage

Rated voltage	Current limit	Test DC voltage
200V _{dc}	4A	300/375V _{dc}
400V _{dc}	2A	500/600V _{dc}

● Test circuit



Constant DC voltage/current power supply

◆ RATED RIPPLE CURRENT MULTIPLIERS

Frequency (Hz)	50	120	300	1k	10k	50k	100k
22 to 47μF	0.75	1.00	1.25	1.50	1.75	1.80	1.85
56 to 220μF	0.80	1.00	1.15	1.30	1.40	1.50	1.60