LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS 15mm height snap-ins, 105℃

KLM Series

- ●15mm height snap-ins
- ●Endurance with ripple current : 2,000 hours at 105℃
- ●Non solvent resistant type
- ●**RoHS Compliant**

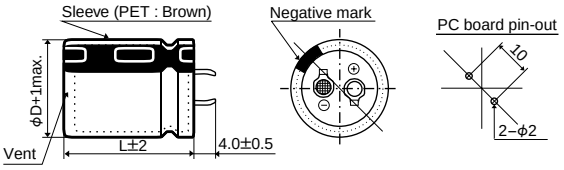
KLM
↑ Low profile
KMH

◆SPECIFICATIONS

Items	Characteristics		
Category Temperature Range	−25 to +105℃		
Rated Voltage Range	160 to 400Vdc		
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)		(at 20℃ after 5 minutes)
Dissipation Factor (tanδ)	Rated voltage (Vdc)	160 to 400V	
	tanδ (Max.)	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	160 to 400V	
	Z (−25℃) /Z (+20℃)	4	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105℃.		
	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℃ after exposing them for 1,000 hours at 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.		
	Capacitance change	≦±15% of the initial value	
	D.F. (tanδ)	≦150% of the initial specified value	
	Leakage current	≦The initial specified value	

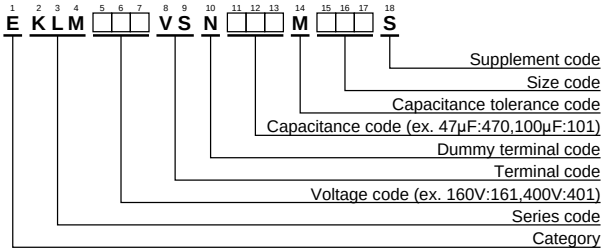
◆DIMENSIONS [mm]

●Terminal Code : VS



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size ΦD×L(mm)	tanδ	Rated ripple current (Arms/ 105℃,120Hz)	Part No.
160	150	22×15	0.20	0.68	EKLM161VSN151MP15S
	180	25.4×15	0.20	0.79	EKLM161VSN181MQ15S
	220	25.4×15	0.20	0.88	EKLM161VSN221MQ15S
	270	30×15	0.20	0.96	EKLM161VSN271MR15S
	330	30×15	0.20	1.06	EKLM161VSN331MR15S
	390	35×15	0.20	1.20	EKLM161VSN391MA15S
180	120	22×15	0.20	0.61	EKLM181VSN121MP15S
	150	25.4×15	0.20	0.73	EKLM181VSN151MQ15S
	180	25.4×15	0.20	0.79	EKLM181VSN181MQ15S
	220	30×15	0.20	0.86	EKLM181VSN221MR15S
	270	30×15	0.20	0.96	EKLM181VSN271MR15S
	330	35×15	0.20	1.10	EKLM181VSN331MA15S
	390	35×15	0.20	1.17	EKLM181VSN391MA15S
200	120	22×15	0.20	0.61	EKLM201VSN121MP15S
	150	25.4×15	0.20	0.73	EKLM201VSN151MQ15S
	180	30×15	0.20	0.79	EKLM201VSN181MR15S
200	220	30×15	0.20	0.90	EKLM201VSN221MR15S
	270	35×15	0.20	1.00	EKLM201VSN271MA15S
	330	35×15	0.20	1.07	EKLM201VSN331MA15S
250	82	22×15	0.20	0.50	EKLM251VSN820MP15S
	100	25.4×15	0.20	0.59	EKLM251VSN101MQ15S
	120	25.4×15	0.20	0.65	EKLM251VSN121MQ15S
	150	30×15	0.20	0.71	EKLM251VSN151MR15S
	180	30×15	0.20	0.79	EKLM251VSN181MR15S
	220	35×15	0.20	0.90	EKLM251VSN221MA15S
400	39	22×15	0.20	0.35	EKLM401VSN390MP15S
	47	25.4×15	0.20	0.40	EKLM401VSN470MQ15S
	56	25.4×15	0.20	0.44	EKLM401VSN560MQ15S
	68	30×15	0.20	0.46	EKLM401VSN680MR15S
	82	30×15	0.20	0.51	EKLM401VSN820MR15S
	100	35×15	0.20	0.56	EKLM401VSN101MA15S
	120	35×15	0.20	0.62	EKLM401VSN121MA15S

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	50	120	300	1k	10k	50k
160 to 250Vdc	0.81	1.00	1.17	1.32	1.45	1.50
400Vdc	0.77	1.00	1.16	1.30	1.41	1.43

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.