LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS

Vibration resistant structure
snap-ins, 105℃

KVA Series New!

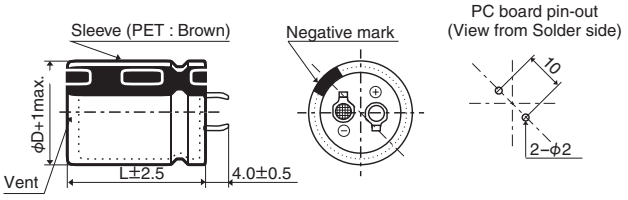
- Designed for automotive application (including On Board Charger) by high vibration resistance structure.
- Endurance with ripple current : 2,000 hours at 105℃
- Rated voltage range : 450Vdc, Capacitance range : 160 to 970μF
- Non solvent resistant type
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

◆SPECIFICATIONS

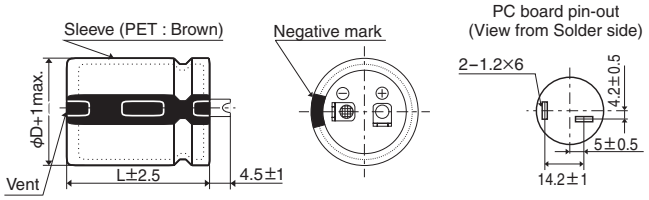
Items	Characteristics		
Category Temperature Range	-40 to +105℃		
Rated Voltage Range	450Vdc		
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)		(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	450V	
	tan δ (Max.)	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	450V	
	Z(-25℃)/Z(+20℃)	8	(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 (the peak voltage shall not exceed the rated voltage) for 2,000 hours at 105℃.		
	Capacitance change	≦±20% of the initial value	
	D.F. (tan δ)	≦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. (tan δ)	≦150% of the initial specified value	
	Leakage current	≦The initial specified value	
Vibration	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to vibration test (vibration profile shown below) at room temperature (15 to 35℃).		
	Capacitance change	≦±5% of the initial value	
	D.F. (tan δ)	≦The initial specified value	
	Leakage current	≦The initial specified value	
	Vibration profile		
	Vibration frequency range	10 to 2,000Hz	
	Acceleration	49m/s^2(5G)	
	Sweep rate	10 to 2,000 to 10Hz 20 minutes	
	Direction and period of motion	4 hours in each of 3 mutually perpendicular directions (total of 12 hours)	
	Fixation	Securely attach the main body using a fixing tool. Please contact us for details.	

◆DIMENSIONS [mm]

●Terminal Code : VS (φ25.4 to φ35) : Standard

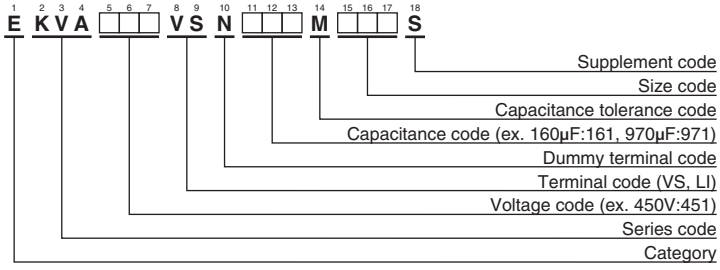


●Terminal Code : LI (φ30, φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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

KVA New! Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
450	160	25.4 × 25	0.20	0.96	EKVA451VSN161MQ25S
	210	25.4 × 30	0.20	1.13	EKVA451VSN211MQ30S
	230	30 × 25	0.20	1.18	EKVA451VSN231MR25S
	250	25.4 × 35	0.20	1.29	EKVA451VSN251MQ35S
	290	35 × 25	0.20	1.29	EKVA451VSN291MA25S
	300	25.4 × 40	0.20	1.44	EKVA451VSN301MQ40S
	300	30 × 30	0.20	1.36	EKVA451VSN301MR30S
	350	25.4 × 45	0.20	1.58	EKVA451VSN351MQ45S
	370	30 × 35	0.20	1.55	EKVA451VSN371MR35S
	390	35 × 30	0.20	1.52	EKVA451VSN391MA30S
	400	25.4 × 50	0.20	1.72	EKVA451VSN401MQ50S
	440	30 × 40	0.20	1.73	EKVA451VSN441MR40S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
450	450	25.4 × 55	0.20	1.87	EKVA451VSN451MQ55S
	480	35 × 35	0.20	1.71	EKVA451VSN481MA35S
	490	25.4 × 60	0.20	2.00	EKVA451VSN491MQ60S
	510	30 × 45	0.20	1.91	EKVA451VSN511MR45S
	580	30 × 50	0.20	2.08	EKVA451VSN581MR50S
	580	35 × 40	0.20	1.95	EKVA451VSN581MA40S
	650	30 × 55	0.20	2.24	EKVA451VSN651MR55S
	680	35 × 45	0.20	2.16	EKVA451VSN681MA45S
	730	30 × 60	0.20	2.42	EKVA451VSN731MR60S
	780	35 × 50	0.20	2.36	EKVA451VSN781MA50S
	880	35 × 55	0.20	2.56	EKVA451VSN881MA55S
	970	35 × 60	0.20	2.73	EKVA451VSN971MA60S

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
450V	0.77	1.00	1.16	1.30	1.41	1.43