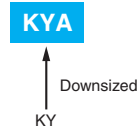


Upgrade!

KYA Series

- Downsized from KY series
- Newly innovative electrolyte is employed to minimize ESR
- Endurance with ripple current : 4,000 to 10,000 hours at 105°C
- Non solvent resistant type
- RoHS Compliant

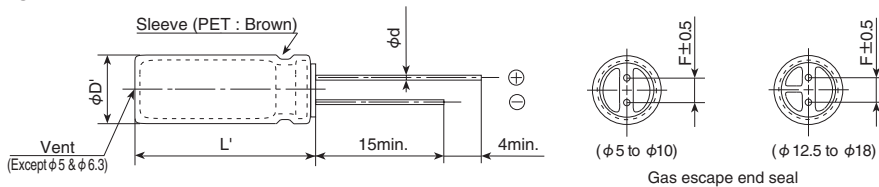


◆ SPECIFICATIONS

Items	Characteristics									
Category	-40 to +105°C									
Temperature Range	-40 to +105°C									
Rated Voltage Range	6.3 to 100V _{dc}									
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)									
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)									
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	100V	
	tan δ (Max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	
Low Temperature Characteristics (Max. Impedance Ratio)	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)									
	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	100V	
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	
Endurance	Z(-40°C)/Z(+20°C)	8	6	4	3	3	3	3	3	
	(at 120Hz)									
Shelf Life	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 (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105°C.									
	Time	6.3 to 10V _{dc}	φ 5 & 6.3 : 4,000hours		φ 8 & 10 : 6,000hours		φ 12.5 to 18 : 8,000hours			
		16 to 100V _{dc}	φ 5 & 6.3 : 5,000hours		φ 8 & 10 : 7,000hours		φ 12.5 to 18 : 10,000hours			
	Capacitance change	≤ ±25% of the initial value								
	D.F. (tan δ)	≤ 200% of the initial specified value								
Shelf Life	Leakage current	≤ The initial specified value								
	Capacitance change	≤ ±25% of the initial value								
	D.F. (tan δ)	≤ 200% of the initial specified value								
Shelf Life	Leakage current	≤ The initial specified value								

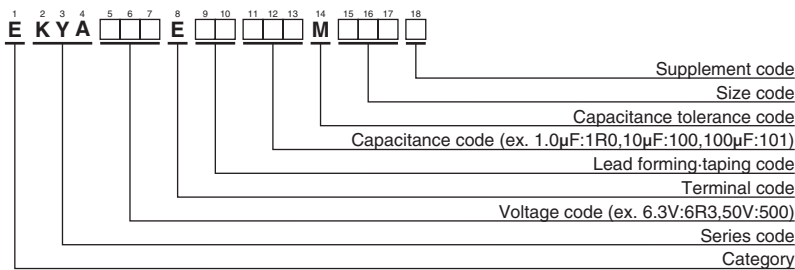
◆ DIMENSIONS [mm]

● Terminal Code : E



φD	5	6.3	8	10	12.5	16
φd	0.5	0.5	0.6	0.6	0.6	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5
φD'	φD+0.5max.					
L'	L+1.5max.					

◆ PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ω _{max} /100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.
			20°C	-10°C		
100	10	6.3×11	0.57	2.3	205	EKYA101E□□100MF11D
	15	6.3×11	0.57	2.3	205	EKYA101E□□150MF11D
	27	8×11.5	0.36	1.4	355	EKYA101E□□270MHB5D
	39	8×15	0.25	1.0	450	EKYA101E□□390MH15D
	47	10×12.5	0.17	0.66	480	EKYA101E□□470MJC5S
	56	8×20	0.19	0.76	565	EKYA101E□□560MH20D
	68	10×16	0.11	0.47	600	EKYA101E□□680MJ16S
	100	10×20	0.084	0.34	800	EKYA101E□□101MJ20S
	150	10×25	0.069	0.28	900	EKYA101E□□151MJ25S
	180	12.5×20	0.062	0.18	1,100	EKYA101E□□181MK20S
	220	12.5×25	0.047	0.14	1,250	EKYA101E□□221MK25S
	330	16×25	0.038	0.12	1,700	EKYA101E□□331ML25S
	470	16×31.5	0.032	0.095	1,850	EKYA101E□□471MLN3S
	560	16×35.5	0.029	0.086	2,000	EKYA101E□□561MLP1S

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance (μF)	Frequency (Hz)			
	120	1k	10k	100k
1.0 to 180	0.40	0.75	0.90	1.00
220 to 560	0.50	0.85	0.94	1.00
680 to 1,800	0.60	0.87	0.95	1.00
2,200 to 3,900	0.75	0.90	0.95	1.00
4,700 to	0.85	0.95	0.98	1.00

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[United Chemi-Con \(UCC\):](#)

[EKYA500ELL222MLP1S](#) [EKYA101ELL3R3ME11D](#) [EKYA250ELL122MJ25S](#) [EKYA350ELL392MLP1S](#)
[EKYA100ELL122MJ16S](#) [EKYA100ELL103MLN3S](#) [EKYA6R3ELL153MLP1S](#) [EKYA500ELL221MJ16S](#)
[EKYA6R3ELL103ML25S](#) [EKYA101ELL470MJC5S](#) [EKYA6R3ELL562MK25S](#) [EKYA500ELL102ML25S](#)
[EKYA500ELL122ML25S](#) [EKYA500ELL182MLN3S](#) [EKYA500ELL181MJC5S](#) [EKYA160ELL822MLN3S](#)
[EKYA630ELL122MLN3S](#) [EKYA100ELL102MJC5S](#) [EKYA6R3ELL332MJ25S](#) [EKYA250ELL471MJC5S](#)
[EKYA250ELL472MLN3S](#) [EKYA160ELL152MJ20S](#) [EKYA350ELL152MK25S](#) [EKYA630ELL101MJC5S](#)
[EKYA500ELL331MJ20S](#) [EKYA101ELL471MLN3S](#) [EKYA6R3ELL182MJ16S](#) [EKYA101ELL100MF11D](#)
[EKYA160ELL102MJ16S](#) [EKYA350ELL471MJ16S](#) [EKYA100ELL392MK25S](#) [EKYA160ELL682MLN3S](#)
[EKYA350ELL681MJ20S](#) [EKYA350ELL821MJ25S](#) [EKYA6R3ELL472MK25S](#) [EKYA100ELL682ML25S](#)
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[EKYA101ELL4R7ME11D](#) [EKYA630ELL102ML25S](#) [EKYA160ELL681MJC5S](#) [EKYA630ELL121MJ16S](#)
[EKYA250ELL152MK20S](#) [EKYA500ELL471MJ25S](#) [EKYA101ELL6R8ME11D](#) [EKYA500ELL561MK20S](#)
[EKYA6R3ELL392MK20S](#) [EKYA6R3ELL122MJC5S](#) [EKYA250ELL102MJ20S](#) [EKYA160ELL222MK20S](#)
[EKYA630ELL221MJ20S](#) [EKYA500ELL471MK20S](#) [EKYA160ELL562ML25S](#) [EKYA350ELL272ML25S](#)
[EKYA100ELL222MJ25S](#) [EKYA101ELL680MJ16S](#) [EKYA350ELL102MK20S](#) [EKYA101ELL2R2ME11D](#)
[EKYA6R3ELL123MLN3S](#) [EKYA101ELL390MH15D](#) [EKYA630ELL391MK20S](#) [EKYA250ELL562MLP1S](#)
[EKYA101ELL221MK25S](#) [EKYA630ELL471MK25S](#) [EKYA350ELL222ML25S](#) [EKYA101ELL151MJ25S](#)
[EKYA250ELL392ML25S](#) [EKYA100ELL182MJ20S](#) [EKYA160ELL123MLP1S](#) [EKYA160ELL103MLP1S](#)
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