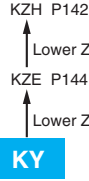


KY Series

- 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

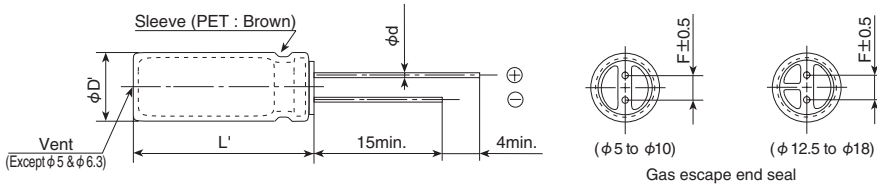


◆ SPECIFICATIONS

Items	Characteristics										
Category	-40 to +105°C										
Temperature Range											
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	80V	100V	
	tan δ (Max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08	
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)										
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	2	
	Z(-40°C)/Z(+20°C)	8	6	4	3	3	3	3	3	3	(at 120Hz)
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 (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									
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 500 hours at 105°C 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	≤ ±25% of the initial value									
	D.F. (tan δ)	≤ 200% of the initial specified value									
	Leakage current	≤ The initial specified value									

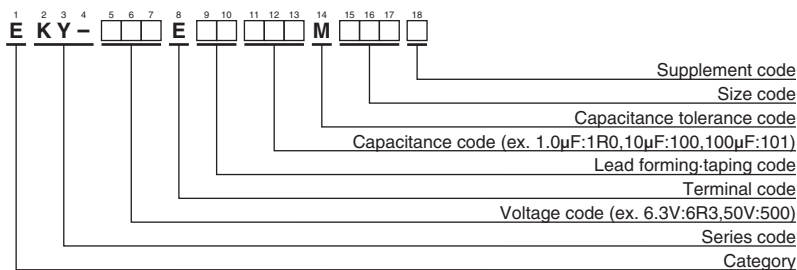
◆ DIMENSIONS [mm]

- Terminal Code : E



φD	5	6.3	8	10	12.5	16	18
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	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 (Ωmax/100kHz)		Rated ripple current (mArms/ 105°C 100kHz)	Part No.
			20°C	-10°C		
35	2,200	18×25	0.019	0.049	3,140	EKY-350E□□222MM25S
	2,700	16×35.5	0.015	0.044	3,610	EKY-350E□□272MLP1S
	2,700	18×31.5	0.015	0.040	4,170	EKY-350E□□272MMN3S
	3,300	16×40	0.013	0.038	4,080	EKY-350E□□332ML40S
	3,300	18×35.5	0.014	0.038	4,220	EKY-350E□□332MMP1S
	3,900	18×40	0.012	0.032	4,280	EKY-350E□□392MM40S
50	1.0	5×11	4.0	16.0	30	EKY-500E□□1R0ME11D
	2.2	5×11	2.5	10.0	43	EKY-500E□□2R2ME11D
	3.3	5×11	2.2	8.8	53	EKY-500E□□3R3ME11D
	4.7	5×11	1.9	7.6	88	EKY-500E□□4R7ME11D
	10	5×11	1.5	6.0	100	EKY-500E□□100ME11D
	22	5×11	0.70	2.8	180	EKY-500E□□220ME11D
	56	6.3×11	0.30	1.2	295	EKY-500E□□560MF11D
	100	8×11.5	0.17	0.68	555	EKY-500E□□101MHB5D
	120	8×15	0.12	0.48	730	EKY-500E□□121MH15D
	150	10×12.5	0.12	0.48	760	EKY-500E□□151MJC5S
	180	8×20	0.091	0.36	910	EKY-500E□□181MH20D
	220	10×16	0.084	0.34	1,050	EKY-500E□□221MJ16S
	270	10×20	0.060	0.24	1,220	EKY-500E□□271MJ20S
	270	12.5×15	0.061	0.20	1,260	EKY-500E□□271MK15S
	330	10×25	0.055	0.22	1,440	EKY-500E□□331MJ25S
	470	10×30	0.043	0.17	1,690	EKY-500E□□471MJ30S
	470	12.5×20	0.045	0.15	1,660	EKY-500E□□471MK20S
	470	16×15	0.055	0.17	1,690	EKY-500E□□471ML15S
	560	12.5×25	0.034	0.11	1,950	EKY-500E□□561MK25S
	560	18×15	0.054	0.15	1,930	EKY-500E□□561MM15S
	680	12.5×30	0.030	0.10	2,310	EKY-500E□□681MK30S
	820	12.5×35	0.025	0.083	2,510	EKY-500E□□821MK35S
	820	16×20	0.034	0.10	2,210	EKY-500E□□821ML20S
	1,000	12.5×40	0.021	0.069	2,920	EKY-500E□□102MK40S
	1,000	16×25	0.025	0.075	2,555	EKY-500E□□102ML25S
	1,000	18×20	0.036	0.097	2,490	EKY-500E□□102MM20S
	1,200	16×31.5	0.022	0.066	3,010	EKY-500E□□122MLN3S
1,200	18×25	0.026	0.070	2,740	EKY-500E□□122MM25S	
1,500	16×35.5	0.019	0.057	3,150	EKY-500E□□152MLP1S	
1,800	16×40	0.016	0.048	3,710	EKY-500E□□182ML40S	
1,800	18×31.5	0.021	0.057	3,635	EKY-500E□□182MMN3S	
2,200	18×35.5	0.017	0.046	3,680	EKY-500E□□222MMP1S	
2,700	18×40	0.014	0.038	3,800	EKY-500E□□272MM40S	
63	15	5×11	0.88	3.5	165	EKY-630E□□150ME11D
	33	6.3×11	0.35	1.4	265	EKY-630E□□330MF11D
	56	8×11.5	0.22	0.88	500	EKY-630E□□560MHB5D
	82	8×15	0.16	0.64	665	EKY-630E□□820MH15D
	82	10×12.5	0.11	0.44	690	EKY-630E□□820MJC5S
	120	8×20	0.12	0.48	820	EKY-630E□□121MH20D
	120	10×16	0.076	0.31	950	EKY-630E□□121MJ16S
	180	10×20	0.056	0.23	1,150	EKY-630E□□181MJ20S
	180	12.5×16	0.072	0.29	1,150	EKY-630E□□181MK16S
	220	10×25	0.046	0.19	1,350	EKY-630E□□221MJ25S
	270	12.5×20	0.041	0.13	1,500	EKY-630E□□271MK20S
	390	12.5×25	0.031	0.093	1,900	EKY-630E□□391MK25S
	470	12.5×30	0.028	0.084	2,300	EKY-630E□□471MK30S
	470	16×20	0.032	0.096	2,000	EKY-630E□□471ML20S
560	12.5×35	0.024	0.072	2,500	EKY-630E□□561MK35S	
680	12.5×40	0.021	0.063	2,800	EKY-630E□□681MK40S	

WV (Vdc)	Cap (µF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mArms/ 105°C 100kHz)	Part No.	
			20°C	-10°C			
63	680	16×25	0.025	0.075	2,600	EKY-630E□□681ML25S	
	680	18×20	0.030	0.090	2,500	EKY-630E□□681MM20S	
	820	16×31.5	0.021	0.063	2,850	EKY-630E□□821MLN3S	
	820	18×25	0.024	0.072	2,800	EKY-630E□□821MM25S	
	1,000	16×35.5	0.019	0.057	2,900	EKY-630E□□102MLP1S	
	1,200	16×40	0.018	0.054	3,400	EKY-630E□□122ML40S	
	1,200	18×31.5	0.020	0.060	3,300	EKY-630E□□122MMN3S	
	1,500	18×35.5	0.018	0.054	3,400	EKY-630E□□152MMP1S	
	1,800	18×40	0.017	0.051	3,500	EKY-630E□□182MM40S	
	80	68	10×12.5	0.17	0.66	480	EKY-800E□□680MJC5S
100		10×16	0.11	0.47	600	EKY-800E□□101MJ16S	
120		10×20	0.084	0.34	800	EKY-800E□□121MJ20S	
150		10×25	0.069	0.28	900	EKY-800E□□151MJ25S	
150		12.5×16	0.11	0.34	750	EKY-800E□□151MK16S	
220		12.5×20	0.062	0.18	1,100	EKY-800E□□221MK20S	
330		12.5×25	0.047	0.14	1,250	EKY-800E□□331MK25S	
330		16×20	0.048	0.15	1,350	EKY-800E□□331ML20S	
390		12.5×30	0.042	0.13	1,500	EKY-800E□□391MK30S	
470		12.5×35	0.036	0.11	1,650	EKY-800E□□471MK35S	
470		16×25	0.038	0.12	1,700	EKY-800E□□471ML25S	
470		18×20	0.045	0.14	1,500	EKY-800E□□471MM20S	
560		12.5×40	0.032	0.095	1,800	EKY-800E□□561MK40S	
680		16×31.5	0.032	0.095	1,850	EKY-800E□□681MKN3S	
680		18×25	0.036	0.11	1,750	EKY-800E□□681MM25S	
820		16×35.5	0.029	0.086	2,000	EKY-800E□□821MLP1S	
820		18×31.5	0.030	0.090	1,900	EKY-800E□□821MMN3S	
1,000		16×40	0.027	0.081	2,200	EKY-800E□□102ML40S	
1,000		18×35.5	0.027	0.081	2,200	EKY-800E□□102MMP1S	
1,200		18×40	0.026	0.077	2,700	EKY-800E□□122MM40S	
100		6.8	5×11	1.4	5.6	125	EKY-101E□□6R8ME11D
		15	6.3×11	0.57	2.3	205	EKY-101E□□150MF11D
		27	8×11.5	0.36	1.4	355	EKY-101E□□270MHB5D
		39	8×15	0.25	1.0	450	EKY-101E□□390MH15D
		47	10×12.5	0.17	0.66	480	EKY-101E□□470MJC5S
		56	8×20	0.19	0.76	565	EKY-101E□□560MH20D
		68	10×16	0.11	0.47	600	EKY-101E□□680MJ16S
	82	10×20	0.084	0.34	800	EKY-101E□□820MJ20S	
	100	12.5×16	0.11	0.34	750	EKY-101E□□101MK16S	
	120	10×25	0.069	0.28	900	EKY-101E□□121MJ25S	
	150	12.5×20	0.062	0.18	1,100	EKY-101E□□151MK20S	
	220	12.5×25	0.047	0.14	1,250	EKY-101E□□221MK25S	
	220	16×20	0.048	0.15	1,350	EKY-101E□□221ML20S	
	270	12.5×30	0.042	0.13	1,500	EKY-101E□□271MK30S	
	330	12.5×35	0.036	0.11	1,650	EKY-101E□□331MK35S	
	330	16×25	0.038	0.12	1,700	EKY-101E□□331ML25S	
	330	18×20	0.045	0.14	1,500	EKY-101E□□331MM20S	
	390	12.5×40	0.032	0.095	1,800	EKY-101E□□391MK40S	
	470	16×31.5	0.032	0.095	1,850	EKY-101E□□471MLN3S	
	470	18×25	0.036	0.11	1,750	EKY-101E□□471MM25S	
	560	16×35.5	0.029	0.086	2,000	EKY-101E□□561MLP1S	
	560	18×31.5	0.030	0.090	1,900	EKY-101E□□561MMN3S	
	680	16×40	0.027	0.081	2,200	EKY-101E□□681ML40S	
	680	18×35.5	0.027	0.081	2,200	EKY-101E□□681MMP1S	
	820	18×40	0.026	0.077	2,700	EKY-101E□□821MM40S	

□ □ : 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.