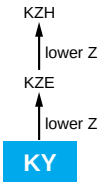
KY Series

- Newly innovative electrolyte is employed to minimize ESR
- Endurance with ripple current : 4000 to 10000 hours at 105℃
- Non solvent-proof type
- Pb-free design

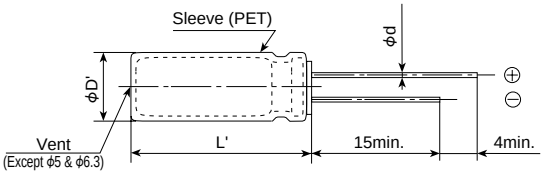


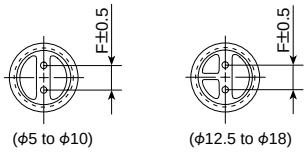
◆SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	−40 to +105℃						
Rated Voltage Range	6.3 to 50Vdc						
Capacitance Tolerance	±20% (M) (at 20℃, 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℃ after 2 minutes)						
Dissipation Factor (tanδ)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V
	tanδ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10
	When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (at 20℃, 120Hz)						
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V
	Z(−25℃)/Z(+20℃)	4	3	2	2	2	2
	Z(−40℃)/Z(+20℃)	8	6	4	3	3	3
	(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 the specified period of time at 105℃.						
	Time: 6.3 to 10Vdc	ϕ5 & 6.3 : 4000hours ϕ8 & 10 : 6000hours ϕ12.5 to 18 : 8000hours					
	Time: 16 to 50Vdc	ϕ5 & 6.3 : 5000hours ϕ8 & 10 : 7000hours ϕ12.5 to 18 : 10000hours					
	Capacitance change	≦±25% 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 500 hours at 105℃ without voltage applied.						
	Capacitance change	≦±25% of the initial value					
	D.F. (tanδ)	≦200% of the initial specified value					
	Leakage current	≦The initial specified value					

◆DIMENSIONS [mm]

- Terminal Code : E

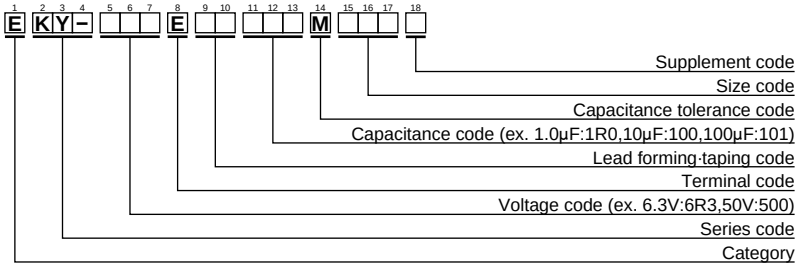




Gas escape end seal

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 "A guide to global code (radial lead type)"

KY Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz) 20℃	Impedance (Ωmax/100kHz) -10℃	Rated ripple current (mArms/105℃, 100kHz)	Part No.
6.3	150	5×11	0.58	2.3	210	EKY-6R3E□□151ME11D
	330	6.3×11	0.22	0.87	340	EKY-6R3E□□331MF11D
	680	8×11.5	0.13	0.52	640	EKY-6R3E□□681MHB5D
	820	10×12.5	0.080	0.32	865	EKY-6R3E□□821MJC5S
	1000	8×15	0.087	0.35	840	EKY-6R3E□□102MH15D
	1200	8×20	0.069	0.27	1050	EKY-6R3E□□122MH20D
	1200	10×16	0.060	0.24	1210	EKY-6R3E□□122MJ16S
	1500	10×20	0.046	0.18	1400	EKY-6R3E□□152MJ20S
	1800	12.5×15	0.049	0.16	1450	EKY-6R3E□□182MK15S
	2200	10×25	0.042	0.17	1650	EKY-6R3E□□222MJ25S
	2700	10×30	0.031	0.12	1910	EKY-6R3E□□272MJ30S
	2700	16×15	0.042	0.12	1940	EKY-6R3E□□272ML15S
	3300	12.5×20	0.035	0.12	1900	EKY-6R3E□□332MK20S
	3900	12.5×25	0.027	0.089	2230	EKY-6R3E□□392MK25S
	3900	18×15	0.043	0.11	2210	EKY-6R3E□□392MM15S
	4700	12.5×30	0.024	0.078	2650	EKY-6R3E□□472MK30S
	5600	12.5×35	0.020	0.065	2880	EKY-6R3E□□562MK35S
	5600	16×20	0.027	0.078	2530	EKY-6R3E□□562ML20S
	6800	12.5×40	0.017	0.056	3350	EKY-6R3E□□682MK40S
	6800	16×25	0.021	0.060	2930	EKY-6R3E□□682ML25S
	6800	18×20	0.026	0.067	2860	EKY-6R3E□□682MM20S
	8200	16×31.5	0.017	0.050	3450	EKY-6R3E□□822MLN3S
	10000	16×35.5	0.015	0.044	3610	EKY-6R3E□□103MLP1S
	10000	18×25	0.019	0.049	3140	EKY-6R3E□□103MM25S
	12000	16×40	0.013	0.038	4080	EKY-6R3E□□123ML40S
	12000	18×31.5	0.015	0.040	4170	EKY-6R3E□□123MMN3S
	15000	18×35.5	0.014	0.038	4220	EKY-6R3E□□153MMP1S
	18000	18×40	0.012	0.032	4280	EKY-6R3E□□183MM40S
10	100	5×11	0.58	2.3	210	EKY-100E□□101ME11D
	220	6.3×11	0.22	0.87	340	EKY-100E□□221MF11D
	470	8×11.5	0.13	0.52	640	EKY-100E□□471MHB5D
	680	8×15	0.087	0.35	840	EKY-100E□□681MH15D
	680	10×12.5	0.080	0.32	865	EKY-100E□□681MJC5S
	1000	8×20	0.069	0.27	1050	EKY-100E□□102MH20D
	1000	10×16	0.060	0.24	1210	EKY-100E□□102MJ16S
	1200	10×20	0.046	0.18	1400	EKY-100E□□122MJ20S
	1500	10×25	0.042	0.17	1650	EKY-100E□□152MJ25S
	1500	12.5×15	0.049	0.16	1450	EKY-100E□□152MK15S
	2200	10×30	0.031	0.12	1910	EKY-100E□□222MJ30S
	2200	12.5×20	0.035	0.12	1900	EKY-100E□□222MK20S
	2200	16×15	0.042	0.12	1940	EKY-100E□□222ML15S
	2700	18×15	0.043	0.11	2210	EKY-100E□□272MM15S
	3300	12.5×25	0.027	0.089	2230	EKY-100E□□332MK25S
	3900	12.5×30	0.024	0.078	2650	EKY-100E□□392MK30S
	3900	16×20	0.027	0.078	2530	EKY-100E□□392ML20S
	4700	12.5×35	0.020	0.065	2880	EKY-100E□□472MK35S
	5600	12.5×40	0.017	0.056	3350	EKY-100E□□562MK40S
	5600	16×25	0.021	0.060	2930	EKY-100E□□562ML25S
	5600	18×20	0.026	0.067	2860	EKY-100E□□562MM20S
	6800	16×31.5	0.017	0.050	3450	EKY-100E□□682MLN3S
	6800	18×25	0.019	0.049	3140	EKY-100E□□682MM25S
	8200	16×35.5	0.015	0.044	3610	EKY-100E□□822MLP1S
	8200	18×31.5	0.015	0.040	4170	EKY-100E□□822MMN3S
	10000	16×40	0.013	0.038	4080	EKY-100E□□103ML40S
	10000	18×35.5	0.014	0.038	4220	EKY-100E□□103MMP1S
	12000	18×40	0.012	0.032	4280	EKY-100E□□123MM40S
16	56	5×11	0.58	2.3	210	EKY-160E□□560ME11D
	120	6.3×11	0.22	0.87	340	EKY-160E□□121MF11D
	330	8×11.5	0.13	0.52	640	EKY-160E□□331MHB5D
	470	8×15	0.087	0.35	840	EKY-160E□□471MH15D
	470	10×12.5	0.080	0.32	865	EKY-160E□□471MJC5S
	680	8×20	0.069	0.27	1050	EKY-160E□□681MH20D
	680	10×16	0.060	0.24	1210	EKY-160E□□681MJ16S
	1000	10×20	0.046	0.18	1400	EKY-160E□□102MJ20S
	1000	12.5×15	0.049	0.16	1450	EKY-160E□□102MK15S
	1200	10×25	0.042	0.17	1650	EKY-160E□□122MJ25S
	1500	10×30	0.031	0.12	1910	EKY-160E□□152MJ30S
16	1500	12.5×20	0.035	0.12	1900	EKY-160E□□152MK20S
	1500	16×15	0.042	0.12	1940	EKY-160E□□152ML15S
	2200	12.5×25	0.027	0.089	2230	EKY-160E□□222MK25S
	2200	18×15	0.043	0.11	2210	EKY-160E□□222MM15S
	2700	12.5×30	0.024	0.078	2650	EKY-160E□□272MK30S
	2700	16×20	0.027	0.078	2530	EKY-160E□□272ML20S
	3300	12.5×35	0.020	0.065	2880	EKY-160E□□332MK35S
	3900	12.5×40	0.017	0.056	3350	EKY-160E□□392MK40S
	3900	16×25	0.021	0.060	2930	EKY-160E□□392ML25S
	3900	18×20	0.026	0.067	2860	EKY-160E□□392MM20S
	4700	16×31.5	0.017	0.050	3450	EKY-160E□□472MLN3S
	4700	18×25	0.019	0.049	3140	EKY-160E□□472MM25S
	5600	16×35.5	0.015	0.044	3610	EKY-160E□□562MLP1S
	5600	18×31.5	0.015	0.040	4170	EKY-160E□□562MMN3S
	6800	16×40	0.013	0.038	4080	EKY-160E□□682ML40S
	8200	18×35.5	0.014	0.038	4220	EKY-160E□□822MMP1S
	10000	18×40	0.012	0.032	4280	EKY-160E□□103MM40S
25	47	5×11	0.58	2.3	210	EKY-250E□□470ME11D
	100	6.3×11	0.22	0.87	340	EKY-250E□□101MF11D
	220	8×11.5	0.13	0.52	640	EKY-250E□□221MHB5D
	330	8×15	0.087	0.35	840	EKY-250E□□331MH15D
	330	10×12.5	0.080	0.32	865	EKY-250E□□331MJC5S
	470	8×20	0.069	0.27	1050	EKY-250E□□471MH20D
	470	10×16	0.060	0.24	1210	EKY-250E□□471MJ16S
	680	10×20	0.046	0.18	1400	EKY-250E□□681MJ20S
	680	12.5×15	0.049	0.16	1450	EKY-250E□□681MK15S
	820	10×25	0.042	0.17	1650	EKY-250E□□821MJ25S
	1000	10×30	0.031	0.12	1910	EKY-250E□□102MJ30S
	1000	12.5×20	0.035	0.12	1900	EKY-250E□□102MK20S
	1000	16×15	0.042	0.12	1940	EKY-250E□□102ML15S
	1200	18×15	0.043	0.11	2210	EKY-250E□□122MM15S
	1500	12.5×25	0.027	0.089	2230	EKY-250E□□152MK25S
	1800	12.5×30	0.024	0.078	2650	EKY-250E□□182MK30S
	1800	16×20	0.027	0.078	2530	EKY-250E□□182ML20S
	2200	12.5×35	0.020	0.065	2880	EKY-250E□□222MK35S
	2200	18×20	0.026	0.067	2860	EKY-250E□□222MM20S
	2700	12.5×40	0.017	0.056	3350	EKY-250E□□272MK40S
	2700	16×25	0.021	0.060	2930	EKY-250E□□272ML25S
	3300	16×31.5	0.017	0.050	3450	EKY-250E□□332MLN3S
	3300	18×25	0.019	0.049	3140	EKY-250E□□332MM25S
	3900	16×35.5	0.015	0.044	3610	EKY-250E□□392MLP1S
	3900	18×31.5	0.015	0.040	4170	EKY-250E□□392MMN3S
	4700	16×40	0.013	0.038	4080	EKY-250E□□472ML40S
	4700	18×35.5	0.014	0.038	4220	EKY-250E□□472MMP1S
	5600	18×40	0.012	0.032	4280	EKY-250E□□562MM40S
35	33	5×11	0.58	2.3	210	EKY-350E□□330ME11D
	56	6.3×11	0.22	0.87	340	EKY-350E□□560MF11D
	150	8×11.5	0.13	0.52	640	EKY-350E□□151MHB5D
	220	8×15	0.087	0.35	840	EKY-350E□□221MH15D
	220	10×12.5	0.080	0.32	865	EKY-350E□□221MJC5S
	270	8×20	0.069	0.27	1050	EKY-350E□□271MH20D
	330	10×16	0.060	0.24	1210	EKY-350E□□331MJ16S
	470	10×20	0.046	0.18	1400	EKY-350E□□471MJ20S
	470	12.5×15	0.049	0.16	1450	EKY-350E□□471MK15S
	560	10×25	0.042	0.17	1650	EKY-350E□□561MJ25S
	680	10×30	0.031	0.12	1910	EKY-350E□□681MJ30S
	680	12.5×20	0.035	0.12	1900	EKY-350E□□681MK20S
	680	16×15	0.042	0.12	1940	EKY-350E□□681ML15S
	1000	12.5×25	0.027	0.089	2230	EKY-350E□□102MK25S
	1000	18×15	0.043	0.11	2210	EKY-350E□□102MM15S
	1200	12.5×30	0.024	0.078	2650	EKY-350E□□122MK30S
	1200	16×20	0.027	0.078	2530	EKY-350E□□122ML20S
	1500	12.5×35	0.020	0.065	2880	EKY-350E□□152MK35S
	1800	12.5×40	0.017	0.056	3350	EKY-350E□□182MK40S
	1800	16×25	0.021	0.060	2930	EKY-350E□□182ML25S
	1800	18×20	0.026	0.067	2860	EKY-350E□□182MM20S
	2200	16×31.5	0.017	0.050	3450	EKY-350E□□222MLN3S

□□ : Lead forming / Taping code

KY Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mArms/105℃, 100kHz)	Part No.
			20℃	-10℃		
35	2200	18×25	0.019	0.049	3140	EKY-350E□□222MM25S
	2700	16×35.5	0.015	0.044	3610	EKY-350E□□272MLP1S
	2700	18×31.5	0.015	0.040	4170	EKY-350E□□272MMN3S
	3300	16×40	0.013	0.038	4080	EKY-350E□□332ML40S
	3300	18×35.5	0.014	0.038	4220	EKY-350E□□332MMP1S
	3900	18×40	0.012	0.032	4280	EKY-350E□□392MM40S
50	0.47	5×11	5.5	22.0	17	EKY-500E□□R47ME11D
	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	1050	EKY-500E□□221MJ16S
	270	10×20	0.060	0.24	1220	EKY-500E□□271MJ20S

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mArms/105℃, 100kHz)	Part No.
			20℃	-10℃		
50	270	12.5×15	0.061	0.20	1260	EKY-500E□□271MK15S
	330	10×25	0.055	0.22	1440	EKY-500E□□331MJ25S
	470	10×30	0.043	0.17	1690	EKY-500E□□471MJ30S
	470	12.5×20	0.045	0.15	1660	EKY-500E□□471MK20S
	470	16×15	0.055	0.17	1690	EKY-500E□□471ML15S
	560	12.5×25	0.034	0.11	1950	EKY-500E□□561MK25S
	560	18×15	0.054	0.15	1930	EKY-500E□□561MM15S
	680	12.5×30	0.030	0.10	2310	EKY-500E□□681MK30S
	820	12.5×35	0.025	0.083	2510	EKY-500E□□821MK35S
	820	16×20	0.034	0.10	2210	EKY-500E□□821ML20S
	1000	12.5×40	0.021	0.069	2920	EKY-500E□□102MK40S
	1000	16×25	0.025	0.075	2555	EKY-500E□□102ML25S
	1000	18×20	0.036	0.097	2490	EKY-500E□□102MM20S
	1200	16×31.5	0.022	0.066	3010	EKY-500E□□122MLN3S
	1200	18×25	0.026	0.070	2740	EKY-500E□□122MM25S
	1500	16×35.5	0.019	0.057	3150	EKY-500E□□152MLP1S
	1800	16×40	0.016	0.048	3710	EKY-500E□□182ML40S
	1800	18×31.5	0.021	0.057	3635	EKY-500E□□182MMN3S
	2200	18×35.5	0.017	0.046	3680	EKY-500E□□222MMP1S
	2700	18×40	0.014	0.038	3800	EKY-500E□□272MM40S

□□ : Lead forming / Taping code

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance (μF) \ Frequency (Hz)	120	1k	10k	100k
0.47 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

CAT. No. E1001E