



- Newly innovative electrolyte is employed to minimize ESR
- Endurance with ripple current: 6,000 to 10,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

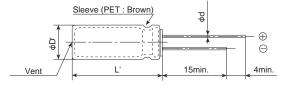


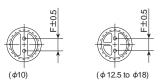
### **SPECIFICATIONS**

Items	Characteristics												
Category Temperature Range	-40 to +105℃												
Rated Voltage Range	6.3 to 100V <sub>dc</sub>												
Capacitance Tolerance	±20%	$\pm 20\%$ (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	Rated v	6.3V	10V	16V	25V	35V	50V	63V	80V	100V			
(tan δ)	tanδ (N	Лах.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08		
	When n	ominal capacitan	се ехсе	eds 1,	000μF,	add 0	.02 to t	he valu	e abov	e for e	ach 1,0	000µF increase.	(at 20°C, 120Hz
Low Temperature	Rated v	6.3V	10V	16V	25V	35V	50V	63V	80V	100V			
Characteristics	Z(-25℃	4	3	2	2	2	2	2	2	2			
(Max. Impedance Ratio)	Z(-40℃	8	6	4	3	3	3	3	3	3		(at 120Hz	
Endurance			tions shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltag (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105℃										
	6.3 to 10V <sub>dc</sub>												
	Time	16 to 100V <sub>dc</sub>	φ10	φ 10 : 7,000hours φ 12.5 to 18 : 10,000hours									
	Capacit	≦±25% of the initial value											
	D.F. (ta	≦200% of the initial specified value											
	Leakage	e current	≦The initial specified value										1
Shelf Life			s shall be satisfied when the capacitors are restored to 20°C after exposing them for see measurement, the capacitor shall be preconditioned by applying voltage according to										
	Capacit	≦±25% of the initial value											
	D.F. (ta	n δ )	≦200% of the initial specified value										
	Leakag	≦Th	e initia	l specif	ied val	ue							

# **◆DIMENSIONS** [mm]

#### ●Terminal Code : E

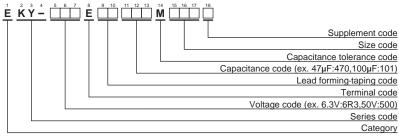




Gas escape end seal

φD	10	12.5	16	18							
φd	0.6	0.6	0.8	0.8							
F	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	Сар	Case size		dance /100kHz)	Rated ripple current	Part No.	wv	Сар	Case size		dance /100kHz)	Rated ripple current	Part No.
(V <sub>dc</sub> )		φD×L(mm)	20℃	-10℃	(mArms/ 105℃, 100kHz)		(V <sub>dc</sub> )	/	φD×L(mm)	20℃	-10℃	(mArms/ 105℃, 100kHz)	
	820	10×12.5	0.080	0.32	865	EKY-6R3E B21MJC5S	16	8,200	18×35.5	0.014	0.038	4,220	EKY-160E B22MMP1S
	1,200 1,500	10×16 10×20	0.060	0.24	1,210 1,400	EKY-6R3E□□122MJ16S EKY-6R3E□□152MJ20S	_	10,000 330	18×40 10×12.5	0.012	0.032	4,280 865	EKY-160E□□103MM40S EKY-250E□□331MJC5S
	1,800	12.5×15	0.046	0.16	1,450	EKY-6R3E 152W5205		470	10 × 12.5	0.060	0.32	1,210	EKY-250E□□351MJC55
	2,200	10×25	0.043	0.17	1,650	EKY-6R3E 222MJ25S		680	10×10	0.046	0.18	1,400	EKY-250E□□681MJ20S
	2,700	10×30	0.031	0.12	1,910	EKY-6R3E□□272MJ30S		680	12.5×15	0.049	0.16	1,450	EKY-250E □ □ 681MK15S
	2,700	16×15	0.042	0.12	1,940	EKY-6R3E□□272ML15S		820	10×25	0.042	0.17	1,650	EKY-250E□□821MJ25S
	3,300	12.5×20	0.035	0.12	1,900	EKY-6R3E□□332MK20S		1,000	10×30	0.031	0.12	1,910	EKY-250E □ □ 102MJ30S
	3,900	12.5×25	0.027	0.089	2,230	EKY-6R3E 392MK25S		1,000	12.5×20	0.035	0.12	1,900	EKY-250E 102MK20S
	3,900 4,700	18×15 12.5×30	0.043	0.11	2,210 2,650	EKY-6R3E□□392MM15S EKY-6R3E□□472MK30S		1,000 1,200	16×15 18×15	0.042	0.12	1,940 2,210	EKY-250E □ □ 102ML15S EKY-250E □ □ 122MM15S
6.3	5,600	12.5×35	0.024	0.078	2,880	EKY-6R3E 562MK35S		1,500	12.5×25	0.043	0.089	2,210	EKY-250E 152MK25S
0.0	5,600	16×20	0.027	0.078	2,530	EKY-6R3E 562ML20S		1,800	12.5×30	0.024	0.078	2,650	EKY-250E□□182MK30S
	6,800	12.5×40	0.017	0.056	3,350	EKY-6R3E□□682MK40S	25	1,800	16×20	0.027	0.078	2,530	EKY-250E □ □ 182ML20S
	6,800	16×25	0.021	0.060	2,930	EKY-6R3E□□682ML25S		2,200	12.5×35	0.020	0.065	2,880	EKY-250E □ □ 222MK35S
	6,800	18×20	0.026	0.067	2,860	EKY-6R3E□□682MM20S		2,200	18×20	0.026	0.067	2,860	EKY-250E□□222MM20S
	8,200	16×31.5	0.017	0.050	3,450	EKY-6R3E B22MLN3S		2,700	12.5×40	0.017	0.056	3,350	EKY-250E 272MK40S
	10,000	16×35.5 18×25	0.015	0.044	3,610 3,140	EKY-6R3E□□103MLP1S EKY-6R3E□□103MM25S		2,700 3,300	16×25 16×31.5	0.021	0.060	2,930 3,450	EKY-250E□□272ML25S EKY-250E□□332MLN3S
	12,000	16×25 16×40	0.013	0.049	4,080	EKY-6R3E 123ML40S		3,300	18×25	0.017	0.030	3,140	EKY-250E 332MM25S
	12,000	18×31.5	0.015	0.040	4,170	EKY-6R3E 123MMN3S		3,900	16×35.5	0.015	0.044	3,610	EKY-250E□□392MLP1S
	15,000	18×35.5	0.014	0.038	4,220	EKY-6R3E□□153MMP1S		3,900	18×31.5	0.015	0.040	4,170	EKY-250E□□392MMN3S
	18,000	18×40	0.012	0.032	4,280	EKY-6R3E□□183MM40S		4,700	16×40	0.013	0.038	4,080	EKY-250E □ □ 472ML40S
	680	10×12.5	0.080	0.32	865	EKY-100E□□681MJC5S	35	4,700	18×35.5	0.014	0.038	4,220	EKY-250E 472MMP1S
	1,000	10×16	0.060	0.24	1,210	EKY-100E 102MJ16S		5,600	18×40	0.012	0.032	4,280	EKY-250E 562MM40S
	1,200 1,500	10×20 10×25	0.046	0.18	1,400 1,650	EKY-100E □ □ 122MJ20S EKY-100E □ □ 152MJ25S		220 330	10×12.5 10×16	0.080	0.32	865 1,210	EKY-350E □ □ 221MJC5S EKY-350E □ □ 331MJ16S
	1,500	12.5×15	0.042	0.17	1,450	EKY-100E 152MK15S		470	10×10	0.046	0.18	1,400	EKY-350E 471MJ20S
	2,200	10×30	0.031	0.12	1,910	EKY-100E□□222MJ30S		470	12.5×15	0.049	0.16	1,450	EKY-350E□□471MK15S
	2,200	12.5×20	0.035	0.12	1,900	EKY-100E□□222MK20S		560	10×25	0.042	0.17	1,650	EKY-350E□□561MJ25S
	2,200	16×15	0.042	0.12	1,940	EKY-100E□□222ML15S		680	10×30	0.031	0.12	1,910	EKY-350E□□681MJ30S
	2,700	18×15 12.5×25	0.043	0.11	2,210 2,230	EKY-100E 272MM15S		680 680	12.5×20 16×15	0.035	0.12	1,900 1,940	EKY-350E 681MK20S
	3,300	12.5×25 12.5×30	0.027	0.089	2,230	EKY-100E□□332MK25S EKY-100E□□392MK30S		1,000	12.5×25	0.042	0.12	2,230	EKY-350E□□681ML15S EKY-350E□□102MK25S
10	3,900	16×20	0.027	0.078	2,530	EKY-100E 392ML20S		1,000	18×15	0.043	0.11	2,210	EKY-350E 102MM15S
	4,700	12.5×35	0.020	0.065	2,880	EKY-100E□□472MK35S		1,200	12.5×30	0.024	0.078	2,650	EKY-350E□□122MK30S
	5,600	12.5×40	0.017	0.056	3,350	EKY-100E □ □ 562MK40S		1,200	16×20	0.027	0.078	2,530	EKY-350E □ □ 122ML20S
	5,600	16×25	0.021	0.060	2,930	EKY-100E 562ML25S		1,500	12.5×35	0.020	0.065	2,880	EKY-350E 152MK35S
	5,600 6,800	18×20 16×31.5	0.026	0.067	2,860 3,450	EKY-100E □ □ 562MM20S EKY-100E □ □ 682MLN3S		1,800 1,800	12.5×40 16×25	0.017	0.056	3,350 2,930	EKY-350E □ □ 182MK40S EKY-350E □ □ 182ML25S
	6,800	18×25	0.017	0.030	3,140	EKY-100E 682MM25S		1,800	18×20	0.021	0.067	2,860	EKY-350E 182MM20S
	8,200	16×35.5	0.015	0.044	3,610	EKY-100E B22MLP1S		2,200	16×31.5	0.017	0.050	3,450	EKY-350E 222MLN3S
	8,200	18×31.5	0.015	0.040	4,170	EKY-100E□□822MMN3S		2,200	18×25	0.019	0.049	3,140	EKY-350E□□222MM25S
	10,000	16×40	0.013	0.038	4,080	EKY-100E □ □ 103ML40S		2,700	16×35.5	0.015	0.044	3,610	EKY-350E□□272MLP1S
	10,000	18×35.5			4,220	EKY-100E 103MMP1S		2,700	18×31.5	<del>i</del>	0.040	4,170	EKY-350E□□272MMN3S EKY-350E□□332ML40S
	12,000 470	18×40 10×12.5	0.012		4,280 865	EKY-100E □ □ 123MM40S EKY-160E □ □ 471MJC5S		3,300	16×40 18×35.5	0.013	0.038	4,080 4,220	EKY-350E 332MMP1S
	680	10×16	0.060		1,210	EKY-160E□□681MJ16S		3,900	18×40	0.012	0.032	4,280	EKY-350E 392MM40S
	1,000	10×20	0.046	0.18	1,400	EKY-160E □ □ 102MJ20S		150	10×12.5	0.12	0.48	760	EKY-500E□□151MJC5S
	1,000	12.5×15	0.049		1,450	EKY-160E□□102MK15S		220	10×16	0.084	0.34	1,050	EKY-500E□□221MJ16S
	1,200	10×25	0.042		1,650	EKY-160E 122MJ25S		270	10×20	0.060	0.24	1,220	EKY-500E 271MJ20S
	1,500 1,500	10×30 12.5×20	0.031	•	1,910 1,900	EKY-160E□□152MJ30S EKY-160E□□152MK20S		270 330	12.5×15 10×25	0.061	0.20	1,260 1,440	EKY-500E□□271MK15S EKY-500E□□331MJ25S
	1,500	16×15	0.033	-	1,940	EKY-160E 152ML15S		470	10×23	0.033	0.22	1,690	EKY-500E 471MJ30S
	2,200	12.5×25	0.027		2,230	EKY-160E□□222MK25S		470	12.5×20	0.045	0.15	1,660	EKY-500E 471MK20S
	2,200	18×15	0.043	1	2,210	EKY-160E□□222MM15S		470	16×15	0.055	0.17	1,690	EKY-500E□□471ML15S
16	2,700	12.5×30	0.024		2,650	EKY-160E□□272MK30S	_	560	12.5×25	0.034	0.11	1,950	EKY-500E □ □ 561MK25S
	2,700	16×20		0.078	2,530	EKY-160E 272ML20S	50	560	18×15	0.054	0.15	1,930	EKY-500E 561MM15S
	3,300	12.5×35 12.5×40	0.020	0.065	2,880 3,350	EKY-160E□□332MK35S EKY-160E□□392MK40S		680 820	12.5×30 12.5×35	0.030	0.10	2,310 2,510	EKY-500E□□681MK30S EKY-500E□□821MK35S
	3,900	16×25	0.017	1	2,930	EKY-160E 392ML25S		820	16×20	0.023	0.003	2,210	EKY-500E 821ML20S
	3,900	18×20	0.021		2,860	EKY-160E 392MM20S		1,000	12.5×40	0.021	0.069	2,920	EKY-500E 102MK40S
	4,700	16×31.5	0.017	-	3,450	EKY-160E□□472MLN3S		1,000	16×25	0.025	0.075	2,555	EKY-500E□□102ML25S
	4,700	18×25	0.019	1	3,140	EKY-160E □ □ 472MM25S		1,000	18×20	0.036	0.097	2,490	EKY-500E   102MM20S
	5,600	16×35.5	0.015		3,610	EKY-160E 562MLP1S		1,200	16×31.5	0.022	0.066	3,010	EKY-500E 122MLN3S
	5,600 6,800	18×31.5 16×40		0.040	4,170 4,080	EKY-160E □ □ 562MMN3S EKY-160E □ □ 682ML40S		1,200 1,500	18×25 16×35.5	0.026	0.070	2,740 3,150	EKY-500E □ □ 122MM25S EKY-500E □ □ 152MLP1S
	0,000	10 ^ 40	0.013	0.030	_ <del>-</del> ,000	LICI-100L U U02IVIL403		1,500	10 ^ 30.3	0.018	0.007	J 5, 130	LT. 1-000F T T 1951AIT 19

 $\square\,\square$  : Enter the appropriate lead forming or taping code.





### **STANDARD RATINGS**

wv	Cap (µF)	Case size	Imped (Ω max./		Rated ripple current	Part No.	wv	Сар	Case size	Imped (Ω max.	dance /100kHz)	Rated ripple current	Part No.
(V <sub>dc</sub> )		φD×L(mm)	20℃	-10℃	(mArms/ 105℃, 100kHz)		(V <sub>dc</sub> )	(µF)	φD×L(mm)	20℃	-10℃	(mArms/ 105°C, 100kHz)	
	1,800	16×40	0.016	0.048	3,710	EKY-500E □ □ 182ML40S		390	12.5×30	0.042	0.13	1,500	EKY-800E□□391MK30S
50	1,800	18×31.5	0.021	0.057	3,635	EKY-500E□□182MMN3S		470	12.5×35	0.036	0.11	1,650	EKY-800E□□471MK35S
30	2,200	18×35.5	0.017	0.046	3,680	EKY-500E□□222MMP1S		470	16×25	0.038	0.12	1,700	EKY-800E□□471ML25S
	2,700	18×40	0.014	0.038	3,800	EKY-500E□□272MM40S		470	18×20	0.045	0.14	1,500	EKY-800E□□471MM20S
	82	10×12.5	0.11	0.44	690	EKY-630E□□820MJC5S		560	12.5×40	0.032	0.095	1,800	EKY-800E□□561MK40S
	120	10×16	0.076	0.31	950	EKY-630E□□121MJ16S	80	680	16×31.5	0.032	0.095	1,850	EKY-800E□□681MLN3S
	180	10×20	0.056	0.23	1,150	EKY-630E□□181MJ20S		680	18×25	0.036	0.11	1,750	EKY-800E□□681MM25S
	180	12.5×16	0.072	0.29	1,150	EKY-630E□□181MK16S		820	16×35.5	0.029	0.086	2,000	EKY-800E□□821MLP1S
	220	10×25	0.046	0.19	1,350	EKY-630E□□221MJ25S		820	18×31.5	0.030	0.090	1,900	EKY-800E□□821MMN3S
	270	12.5×20	0.041	0.13	1,500	EKY-630E□□271MK20S		1,000	16×40	0.027	0.081	2,200	EKY-800E□□102ML40S
	390	12.5×25	0.031	0.093	1,900	EKY-630E□□391MK25S		1,000	18×35.5	0.027	0.081	2,200	EKY-800E□□102MMP1S
	470	12.5×30	0.028	0.084	2,300	EKY-630E□□471MK30S		1,200	18×40	0.026	0.077	2,700	EKY-800E□□122MM40S
	470	16×20	0.032	0.096	2,000	EKY-630E□□471ML20S		47	10×12.5	0.17	0.66	480	EKY-101E□□470MJC5S
63	560	12.5×35	0.024	0.072	2,500	EKY-630E□□561MK35S		68	10×16	0.11	0.47	600	EKY-101E□□680MJ16S
03	680	12.5×40	0.021	0.063	2,800	EKY-630E□□681MK40S		82	10×20	0.084	0.34	800	EKY-101E□□820MJ20S
	680	16×25	0.025	0.075	2,600	EKY-630E□□681ML25S		100	12.5×16	0.11	0.34	750	EKY-101E□□101MK16S
	680	18×20	0.030	0.090	2,500	EKY-630E□□681MM20S		120	10×25	0.069	0.28	900	EKY-101E □ □ 121MJ25S
	820	16×31.5	0.021	0.063	2,850	EKY-630E□□821MLN3S		150	12.5×20	0.062	0.18	1,100	EKY-101E□□151MK20S
	820	18×25	0.024	0.072	2,800	EKY-630E□□821MM25S		220	12.5×25	0.047	0.14	1,250	EKY-101E□□221MK25S
	1,000	16×35.5	0.019	0.057	2,900	EKY-630E□□102MLP1S		220	16×20	0.048	0.15	1,350	EKY-101E□□221ML20S
	1,200	16×40	0.018	0.054	3,400	EKY-630E□□122ML40S		270	12.5×30	0.042	0.13	1,500	EKY-101E□□271MK30S
	1,200	18×31.5	0.020	0.060	3,300	EKY-630E□□122MMN3S	100	330	12.5×35	0.036	0.11	1,650	EKY-101E□□331MK35S
	1,500	18×35.5	0.018	0.054	3,400	EKY-630E□□152MMP1S	100	330	16×25	0.038	0.12	1,700	EKY-101E □ □ 331ML25S
	1,800	18×40	0.017	0.051	3,500	EKY-630E□□182MM40S		330	18×20	0.045	0.14	1,500	EKY-101E □ □ 331MM20S
	68	10×12.5	0.17	0.66	480	EKY-800E□□680MJC5S		390	12.5×40	0.032	0.095	1,800	EKY-101E□□391MK40S
	100	10×16	0.11	0.47	600	EKY-800E□□101MJ16S		470	16×31.5	0.032	0.095	1,850	EKY-101E□□471MLN3S
	120	10×20	0.084	0.34	800	EKY-800E□□121MJ20S		470	18×25	0.036	0.11	1,750	EKY-101E□□471MM25S
١.,	150	10×25	0.069	0.28	900	EKY-800E □ □ 151MJ25S		560	16×35.5	0.029	0.086	2,000	EKY-101E□□561MLP1S
80	150	12.5×16	0.11	0.34	750	EKY-800E□□151MK16S		560	18×31.5	0.030	0.090	1,900	EKY-101E□□561MMN3S
	220	12.5×20	0.062	0.18	1,100	EKY-800E□□221MK20S		680	16×40	0.027	0.081	2,200	EKY-101E ☐ ☐ 681ML40S
	330	12.5×25	0.047	0.14	1,250	EKY-800E□□331MK25S		680	18×35.5	0.027	0.081	2,200	EKY-101E□□681MMP1S
	330	16×20	0.048	0.15	1,350	EKY-800E □ □ 331ML20S		820	18×40	0.026	0.077	2,700	EKY-101E □ □ 821MM40S

 $<sup>\</sup>square\,\square$  : Enter the appropriate lead forming or taping code.

## **PRATED RIPPLE CURRENT MULTIPLIERS**

### Frequency Multipliers

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

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.