



- OLow impedance, high ripple and long life from KYA series
- Newly innovative electrolyte is employed to minimize impedance
- Endurance with ripple current: 4,000 to 10,000 hours at 105°C
- Non solvent resistant type
- RoHS Compliant



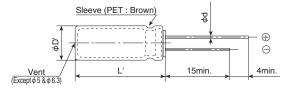


SPECIFICATIONS

Items	Characteristics													
Category Temperature Range	-40 to +105℃													
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	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V	63V	80V	100V				
(tan δ)	$tan \delta$ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08				
	When nominal capacitan	ce exce	eds 1,	000μF,	, add 0	.02 to t	he valu	ie abov	e for	each 1,0				
Low Temperature	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V	63V	80V	100V				
Characteristics	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	2				
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	8	6	4	3	3	3	3	3	3	(at 120Hz)			
Endurance											C after subjected to DC voltage with the rated			
	ripple current is applied (the pea	k volta	ge sha	II not e	xceed	the rate	ed volta	age) f	or the sp	pecified period of time at 105℃.			
	Rated Voltage(V _{dc}) 6.3 to 10V _{dc} 16 to 100V _{dc})V _{dc}					
	Time φ5: 4,000hours φ6.3 & 8: 6,000hours φ10 to 18: 8,000hours φ5: 5,000hours φ6.3 & 8: 7,000hours φ10 to 18: 10,000hours													
	Capacitance change $\leq \pm 30\%$ of the initial value $\leq \pm 25\%$ of the initial value													
	D.F. (tan δ) $\leq 200\%$ of the initial specified value $\leq 200\%$ of the initial specified value													
	Leakage current	rent ≦The initial specified value ≦The initial specified value								tial 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 103									er exposing them for 500 hours at 105°C without				
voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage a									g voltage according to Item 4.1 of JIS C 5101-4.					
	Capacitance change	≦±2	5% of 1	the initi	al valu	е								
	D.F. (tan δ)	≦200	% of th	ne initia	ıl speci	fied va	lue							
	Leakage current	≦The	initial	specific	ed valu	e								

◆DIMENSIONS [mm]

●Terminal Code : E



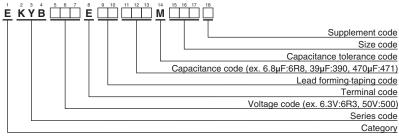


Gas escape end seal



l	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.										
ſ	L'	L+1.5max.										

◆PART NUMBERING SYSTEM



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





STANDARD RATINGS

wv	Сар	Case size	Imped (Ω max.	dance /100kHz)	Rated ripple current	Part No.	wv	Сар	Case size	Imped (Ω max.	dance /100kHz)	Rated ripple current (mArms/ 105°C, 100kHz)	Part No.
(V _{dc})	(μF)	φD×L(mm)	20℃	-10℃	(mArms/ 105℃, 100kHz)		(V _{dc})	(μF)	φD×L(mm)	20℃	-10℃		
	180	5×11	0.29	1.2	340	EKYB6R3E□□181ME11D		4,700	12.5×35	0.018	0.072	3,140	EKYB160E□□472MK35S
	390	6.3×11	0.15	0.60	540	EKYB6R3E 391MF11D		4,700	18×20	0.021	0.084	3,000	EKYB160E 472MM20S
	820 1,200	8×11.5 8×15	0.087	0.35	1,050	EKYB6R3E□□821MHB5D EKYB6R3E□□122MH15D		5,600 5,600	12.5×40 16×25	0.017	0.068	3,640 3,140	EKYB160E □ □ 562MK40S EKYB160E □ □ 562ML25S
	1,200	10×12.5	0.069	0.26	1,050	EKYB6R3E 122MJC5S		6,800	16×31.5	0.020	0.064	3,610	EKYB160E 682MLN3S
	1,500	8×20	0.060	0.24	1,210	EKYB6R3E 152MH20D	16	6,800	18×25	0.017	0.068	3,530	EKYB160E 682MM25S
	1,800	10×16	0.049	0.20	1,400	EKYB6R3E□□182MJ16S		8,200	16×35.5	0.014	0.056	4,080	EKYB160E□□822MLP1S
İ	2,200	10×20	0.037	0.15	1,650	EKYB6R3E□□222MJ20S		8,200	18×31.5	0.014	0.056	4,220	EKYB160E□□822MMN3S
	2,700	10×25	0.031	0.13	1,910	EKYB6R3E□□272MJ25S		10,000	16×40	0.013	0.052	4,220	EKYB160E□□103ML40S
	3,300	10×30	0.027	0.11	2,230	EKYB6R3E□□332MJ30S		10,000	18×35.5	0.012	0.048	4,280	EKYB160E 103MMP1S
	3,900	12.5×20	0.027	0.11	2,230	EKYB6R3E 392MK20S		12,000	18×40	0.011	0.044	4,700	EKYB160E 123MM40S
6.3	4,700 6,800	12.5×25 12.5×30	0.024	0.096	2,530 2,860	EKYB6R3E□□472MK25S EKYB6R3E□□682MK30S		82 150	5×11 6.3×11	0.29	1.2 0.60	340 540	EKYB250E□□820ME11D EKYB250E□□151MF11D
0.5	6,800	16×20	0.021	0.10	2,610	EKYB6R3E 682ML20S		330	8×11.5	0.13	0.35	840	EKYB250E 331MHB5D
	8,200	12.5×35	0.018	0.072	3,140	EKYB6R3E B22MK35S		390	8×15	0.069	0.28	1,050	EKYB250E 391MH15D
	8,200	18×20	0.021	0.084	3,000	EKYB6R3E□□822MM20S		470	10×12.5	0.064	0.26	1,050	EKYB250E□□471MJC5S
	10,000	12.5×40	0.017	0.068	3,640	EKYB6R3E□□103MK40S		560	8×20	0.060	0.24	1,210	EKYB250E□□561MH20D
	10,000	16×25	0.020	0.080	3,140	EKYB6R3E□□103ML25S		680	10×16	0.049	0.20	1,400	EKYB250E□□681MJ16S
	12,000	16×31.5	0.016	0.064	3,610	EKYB6R3E 123MLN3S		1,000	10×20	0.037	0.15	1,650	EKYB250E 102MJ20S
	12,000 15,000	18×25	0.017	0.068	3,530 4,080	EKYB6R3E 123MM25S	25	1,200 1,500	10×25 10×30	0.031	0.13	1,910 2,230	EKYB250E □ □ 122MJ25S EKYB250E □ □ 152MJ30S
	15,000	16×35.5 18×31.5	0.014	0.056	4,080	EKYB6R3E□□153MLP1S EKYB6R3E□□153MMN3S		1,500		0.027	0.11	2,230	EKYB250E 152MK20S
	18,000	16×40	0.014	0.052	4,220	EKYB6R3E 183ML40S		2,200		0.024	0.096	2,530	EKYB250E 222MK25S
	18,000	18×35.5	0.012	0.048	4,280	EKYB6R3E 183MMP1S		2,700		0.021	0.084	2,860	EKYB250E 272MK30S
	22,000	18×40	0.011	0.044	4,700	EKYB6R3E□□223MM40S		2,700	16×20	0.025	0.10	2,610	EKYB250E□□272ML20S
	120	5×11	0.29	1.2	340	EKYB100E□□121ME11D		3,300	12.5×35	0.018	0.072	3,140	EKYB250E□□332MK35S
	330	6.3×11	0.15	0.60	540	EKYB100E□□331MF11D		3,300	18×20	0.021	0.084	3,000	EKYB250E□□332MM20S
	560	8×11.5	0.087	0.35	840	EKYB100E 561MHB5D		3,900		0.017	0.068	3,640	EKYB250E 392MK40S
	1,000	8×15 8×20	0.069	0.28	1,050 1,210	EKYB100E □ 821MH15D EKYB100E □ 102MH20D		3,900 4,700	16×25 16×31.5	0.020	0.080	3,140 3,610	EKYB250E □ □ 392ML25S EKYB250E □ □ 472MLN3S
	1,000	10×12.5	0.064	0.24	1,050	EKYB100E 102MJC5S		4,700	18×25	0.016	0.068	3,530	EKYB250E 472MM25S
	1,200	10×16	0.049	0.20	1,400	EKYB100E 122MJ16S		5,600	16×35.5	0.014	0.056	4,080	EKYB250E 562MLP1S
	1,800	10×20	0.037	0.15	1,650	EKYB100E□□182MJ20S		6,800	16×40	0.013	0.052	4,220	EKYB250E□□682ML40S
	2,200	10×25	0.031	0.13	1,910	EKYB100E□□222MJ25S		6,800	18×31.5	0.014	0.056	4,220	EKYB250E□□682MMN3S
	2,700	10×30	0.027	0.11	2,230	EKYB100E□□272MJ30S		8,200	18×35.5	0.012	0.048	4,280	EKYB250E□□822MMP1S
	2,700	12.5×20	0.027	0.11	2,230	EKYB100E 272MK20S		47	5×11	0.29	1.2	340	EKYB350E 470ME11D
140	3,900	12.5×25	0.024	0.096	2,530	EKYB100E 392MK25S		100	6.3×11	0.15	0.60	540	EKYB350E 101MF11D
10	4,700 4,700	12.5×30 16×20	0.021	0.084	2,860 2,610	EKYB100E 472MK30S EKYB100E 472ML20S		180 270	8×11.5 8×15	0.087	0.35	840 1,050	EKYB350E □ □ 181MHB5D EKYB350E □ □ 271MH15D
	5,600	12.5×35	0.023	0.072	3,140	EKYB100E 562MK35S		330	8×20	0.060	0.24	1,210	EKYB350E 331MH20D
	6,800	12.5×40	0.017	0.068	3,640	EKYB100E□□682MK40S		330	10×12.5	0.064	0.26	1,050	EKYB350E□□331MJC5S
	6,800	16×25	0.020	0.080	3,140	EKYB100E□□682ML25S		470	10×16	0.049	0.20	1,400	EKYB350E□□471MJ16S
	6,800	18×20	0.021			EKYB100E□□682MM20S		680		0.037			EKYB350E□□681MJ20S
	8,200	16×31.5			3,610	EKYB100E B22MLN3S		820		0.031			EKYB350E B21MJ25S
	8,200	18×25	0.017		3,530	EKYB100E B22MM25S		1,000		0.027	0.11	2,230	EKYB350E 102MJ30S
	10,000	16×35.5 18×31.5		0.056	4,080 4,220	EKYB100E 103MLP1S EKYB100E 103MMN3S			12.5×20 12.5×25	0.027	0.11	2,230 2,530	EKYB350E□□102MK20S EKYB350E□□152MK25S
	12,000	16×40	0.014		4,220	EKYB100E 123ML40S	35		12.5×25	0.024	0.084	2,860	EKYB350E 132MK30S
	12,000	18×35.5	0.012		4,280	EKYB100E 123MMP1S		1,800	16×20	0.025	0.10	2,610	EKYB350E 182ML20S
	15,000	18×40	0.011	0.044	4,700	EKYB100E□□153MM40S		2,200		0.018	0.072	3,140	EKYB350E□□222MK35S
	120	5×11	0.29	1.2	340	EKYB160E□□121ME11D		2,200	18×20	0.021	0.084	3,000	EKYB350E□□222MM20S
	270	6.3×11	0.15	0.60	540	EKYB160E□□271MF11D		2,700	1	0.017	0.068	3,640	EKYB350E□□272MK40S
	470	8×11.5	0.087	0.35	840	EKYB160E□□471MHB5D		2,700	16×25	0.020	0.080	3,140	EKYB350E□□272ML25S
	680	8×15	0.069	0.28	1,050	EKYB160E G681MH15D		3,300	16×31.5		0.064	3,610	EKYB350E 332MLN3S
	680 820	10×12.5 8×20	0.064	0.26	1,050	EKYB160E□□681MJC5S EKYB160E□□821MH20D		3,300	18×25 16×35.5	0.017	0.068	3,530	EKYB350E□□332MM25S EKYB350E□□392MLP1S
	1,000	10×16	0.060	0.24	1,210 1,400	EKYB160E 102MJ16S		3,900 4,700	16×35.5	0.014	0.056	4,080 4,220	EKYB350E 472ML40S
16	1,500	10×10	0.043	0.15	1,650	EKYB160E 152MJ20S		4,700	18×31.5		0.056	4,220	EKYB350E 472MMN3S
	1,800	10×25	0.031	0.13	1,910	EKYB160E□□182MJ25S		5,600	18×35.5		0.048	4,280	EKYB350E□□562MMP1S
	2,200	10×30	0.027	0.11	2,230	EKYB160E□□222MJ30S		27	5×11	0.48	2.0	238	EKYB500E□□270ME11D
	2,200		0.027	0.11	2,230	EKYB160E□□222MK20S		56	6.3×11	0.20	0.80	385	EKYB500E□□560MF11D
		12.5×25	0.024	0.096	2,530	EKYB160E 332MK25S	50	100	8×11.5		0.48	620	EKYB500E 101MHB5D
		12.5×30	0.021	0.084	2,860	EKYB160E 392MK30S		150	8×15	0.093	0.38	810	EKYB500E 151MH15D
	3,900	16×20	0.025	0.10	2,610	EKYB160E□□392ML20S		150	10×12.5	0.10	0.40	810	EKYB500E 151MJC5S

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





STANDARD RATINGS

		AND NA	Imped		Rated ripple					Impe	dance /100kHz)	Rated ripple	
(V _{dc})	Cap (µF)	Case size φD×L(mm)	20°C	-10°C	current (mArms/ 105°C, 100kHz)	Part No.	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	20°C	-10°C	current (mArms/ 105°C, 100kHz)	Part No.
	180	8×20	0.075	0.30	980	EKYB500E□□181MH20D		56	8×15	0.14	0.56	585	EKYB800E□□560MH15D
	220	10×16	0.069	0.28	1,100	EKYB500E□□221MJ16S	İ	82	8×20	0.11	0.44	735	EKYB800E□□820MH20D
	270	10×20	0.055	0.22	1,300	EKYB500E□□271MJ20S	i	82	10×12.5	0.14	0.56	624	EKYB800E□□820MJC5S
	390	10×25	0.043	0.18	1,600	EKYB500E□□391MJ25S		120	10×16	0.10	0.40	780	EKYB800E□□121MJ16S
	470	10×30	0.038	0.16	1,820	EKYB500E□□471MJ30S		180	10×20	0.075	0.30	1,040	EKYB800E□□181MJ20S
	470	12.5×20	0.034	0.14	1,820	EKYB500E□□471MK20S	İ	220	10×25	0.060	0.24	1,170	EKYB800E□□221MJ25S
	680	12.5×25	0.030	0.12	2,100	EKYB500E□□681MK25S		270	10×30	0.053	0.22	1,350	EKYB800E□□271MJ30S
	820	12.5×30	0.025	0.10	2,450	EKYB500E□□821MK30S		270	12.5×20	0.048	0.20	1,430	EKYB800E□□271MK20S
	820	16×20	0.028	0.12	2,350	EKYB500E□□821ML20S		390	12.5×25	0.039	0.16	1,620	EKYB800E□□391MK25S
50	1,000	12.5×35	0.021	0.084	2,800	EKYB500E□□102MK35S		470	12.5×30	0.033	0.14	1,950	EKYB800E□□471MK30S
	1,000	18×20	0.025	0.10	2,600	EKYB500E□□102MM20S	80	470	16×20	0.036	0.15	1,750	EKYB800E□□471ML20S
	1,200	12.5×40	0.019	0.076	3,100	EKYB500E□□122MK40S		560	12.5×35	0.026	0.11	2,250	EKYB800E□□561MK35S
	1,200	16×25	0.024	0.096	2,750	EKYB500E□□122ML25S		560	18×20	0.032	0.13	2,100	EKYB800E□□561MM20S
	1,500	16×31.5	0.019	0.076	3,150	EKYB500E□□152MLN3S		680	12.5×40	0.024	0.096	2,450	EKYB800E□□681MK40S
	1,500	18×25	0.021	0.084	2,890	EKYB500E□□152MM25S		680	16×25	0.028	0.12	2,250	EKYB800E□□681ML25S
	1,800	16×35.5	0.016	0.064	3,550	EKYB500E□□182MLP1S		820	16×31.5	0.022	0.088	2,400	EKYB800E□□821MLN3S
	2,200	16×40	0.014	0.056	3,900	EKYB500E□□222ML40S		820	18×25	0.027	0.11	2,270	EKYB800E□□821MM25S
	2,200	18×31.5	0.014	0.056	3,800	EKYB500E□□222MMN3S		1,000	16×35.5	0.020	0.080	2,600	EKYB800E□□102MLP1S
	2,700	18×35.5	0.013	0.052	4,100	EKYB500E□□272MMP1S		1,200	16×40	0.018	0.072	2,900	EKYB800E□□122ML40S
	18	5×11	0.50	2.0	220	EKYB630E□□180ME11D		1,200	18×31.5	0.020	0.080	2,550	EKYB800E□□122MMN3S
	33	6.3×11	0.25	1.0	350	EKYB630E□□330MF11D		1,500	18×35.5	0.018	0.072	3,050	EKYB800E□□152MMP1S
	56	8×11.5	0.16	0.64	530	EKYB630E□□560MHB5D		6.8	5×11	0.80	3.2	163	EKYB101E□□6R8ME11D
	82	8×15	0.12	0.48	700	EKYB630E□□820MH15D		15	6.3×11	0.43	1.8	267	EKYB101E 150MF11D
	120	8×20	0.085	0.34	880	EKYB630E□□121MH20D		27	8×11.5	0.18	0.72	462	EKYB101E□□270MHB5D
	120	10×12.5	0.11	0.44	725	EKYB630E□□121MJC5S		39	8×15	0.14	0.56	585	EKYB101E□□390MH15D
	180	10×16	0.073	0.30	1,050	EKYB630E□□181MJ16S		56	8×20	0.11	0.44	735	EKYB101E□□560MH20D
	220	10×20	0.055	0.22	1,300	EKYB630E□□221MJ20S		56	10×12.5	0.14	0.56	624	EKYB101E□□560MJC5S
	330	10×25	0.045	0.18	1,550	EKYB630E□□331MJ25S		82	10×16	0.10	0.40	780	EKYB101E□□820MJ16S
	390	10×30	0.040	0.16	1,780	EKYB630E 391MJ30S		100	10×20	0.075	0.30	1,040	EKYB101E 101MJ20S
	390	12.5×20	0.036	0.15	1,780	EKYB630E□□391MK20S		120	10×25	0.060	0.24	1,170	EKYB101E□□121MJ25S
	560	12.5×25	0.030	0.12	2,100	EKYB630E 561MK25S		150	10×30	0.053	0.22	1,350	EKYB101E 151MJ30S
63	680	12.5×30	0.026	0.11	2,415	EKYB630E = 681MK30S		180	12.5×20	0.048	0.20	1,430	EKYB101E 181MK20S
	680	16×20	0.028	0.12	2,250	EKYB630E 681ML20S	100	220	12.5×25	0.039	0.16	1,620	EKYB101E 221MK25S
	820	12.5×35	0.022	0.088	2,700	EKYB630E B21MK35S	100		12.5×30	0.033	0.14	1,950	EKYB101E 271MK30S
	820	18×20	0.028	0.12	2,500	EKYB630E B21MM20S		270	16×20	0.036	0.15	1,750	EKYB101E 271ML20S
	1,000	12.5×40	0.020	0.080	3,000	EKYB630E 102MK40S		330	16×25	0.028	0.12	2,250	EKYB101E 331ML25S
	1,000	16×25	0.025	0.10	2,730	EKYB630E 102ML25S		390	12.5×35	0.026	0.11	2,250	EKYB101E 391MK35S
	1,200	16×31.5	0.020	0.080	3,000	EKYB630E 122MLN3S		390	18×20	0.032	0.13	2,100	EKYB101E 391MM20S
	1,200	18×25	0.022		2,800	EKYB630E 122MM25S		470	12.5×40	0.024	0.096	2,450	EKYB101E 471MK40S
	1,500	16×35.5	0.018	0.072	3,200	EKYB630E 152MLP1S		470	16×31.5	0.022	0.088	2,400	EKYB101E 471MLN3S
	1,500	18×31.5 16×40	0.018	0.072	3,300 3,590	EKYB630E□□152MMN3S EKYB630E□□182ML40S		560	16×35.5	0.020	0.080	2,600 2,270	EKYB101E□□561MLP1S EKYB101E□□561MM25S
	1,800 1,800	18×35.5	0.016	0.064	3,590			560 680	18×25 16×40	0.027	0.11	2,270	EKYB101E 681ML40S
	2,200	18 × 35.5	0.017	0.068	3,570	EKYB630E □ □ 182MMP1S EKYB630E □ □ 222MM40S		680	18×31.5	0.018	0.072	2,550	
	2,200	5×11	0.016	3.2	163	EKYB800E 120ME11D		820	18×31.5	0.020	0.080	3,050	EKYB101E□□681MMN3S EKYB101E□□821MMP1S
80	22	6.3×11	0.80	1.8	267	EKYB800E 220MF11D		1.000	18×40	0.018	0.072	3,510	EKYB101E 102MM40S
00	39	8×11.5	0.43	0.72	462	EKYB800E 390MHB5D		1,000	16/40	0.017	0.068	3,510	ENTOTUTELL TUZIMINI405
\Box	39	0 ^ 11.5	J U.16	0.72	402	EV 1 DOUDE - P 3ANINIHR2D							

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

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
6.8 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.