

KYA Series

- Downsized from KY 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
- RoHS2 Compliant

KYA

Downsized
KY

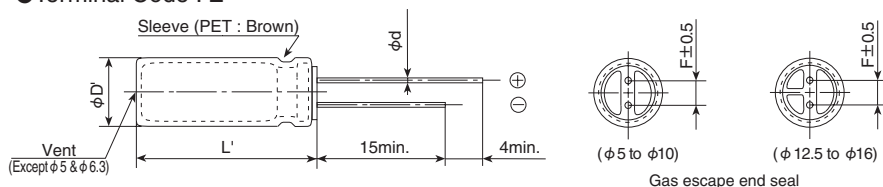


◆ SPECIFICATIONS

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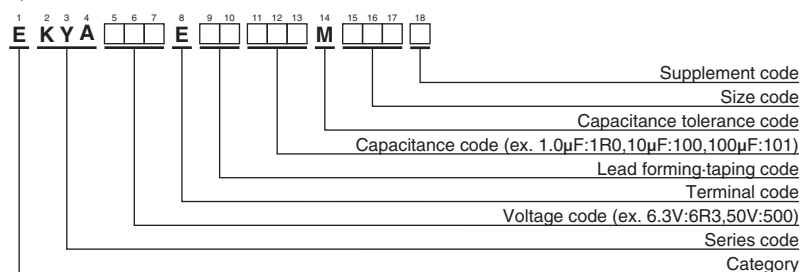
◆ DIMENSIONS [mm]

- 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
$\phi D'$	$\phi D + 0.5 \max.$					
L'	$L + 1.5 \max.$					

◆PART NUMBERING SYSTEM



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



◆STANDARD RATINGS

WV (V _{dc})	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		
6.3	100	5×11	0.90	3.6	150	EKYA6R3E□□101ME11D
	180	5×11	0.40	1.6	250	EKYA6R3E□□181ME11D
	220	5×11	0.40	1.6	250	EKYA6R3E□□221ME11D
	330	6.3×11	0.22	0.87	400	EKYA6R3E□□331MF11D
	470	6.3×11	0.22	0.87	400	EKYA6R3E□□471MF11D
	820	8×11.5	0.13	0.52	640	EKYA6R3E□□821MHB5D
	1,200	10×12.5	0.080	0.32	865	EKYA6R3E□□122MJC5S
	1,200	8×15	0.087	0.35	840	EKYA6R3E□□122MH15D
	1,500	8×20	0.069	0.27	1,050	EKYA6R3E□□152MH20D
	1,800	10×16	0.060	0.24	1,300	EKYA6R3E□□182MJ16S
	2,700	10×20	0.046	0.18	1,400	EKYA6R3E□□272MJ20S
	3,300	10×25	0.042	0.17	1,650	EKYA6R3E□□332MJ25S
	3,900	12.5×20	0.035	0.12	1,900	EKYA6R3E□□392MK20S
	4,700	12.5×25	0.027	0.089	2,230	EKYA6R3E□□472MK25S
	5,600	12.5×25	0.027	0.089	2,230	EKYA6R3E□□562MK25S
	10,000	16×25	0.021	0.060	2,930	EKYA6R3E□□103MLN3S
	12,000	16×31.5	0.017	0.050	3,450	EKYA6R3E□□123MLN3S
	15,000	16×35.5	0.015	0.044	3,610	EKYA6R3E□□153MLP1S
10	100	5×11	0.90	3.6	150	EKYA100E□□101ME11D
	120	5×11	0.40	1.6	250	EKYA100E□□121ME11D
	330	6.3×11	0.22	0.87	400	EKYA100E□□331MF11D
	560	8×11.5	0.13	0.52	640	EKYA100E□□561MHB5D
	820	8×15	0.087	0.35	840	EKYA100E□□821MH15D
	820	10×12.5	0.080	0.32	865	EKYA100E□□821MJC5S
	1,000	10×12.5	0.080	0.32	865	EKYA100E□□102MJC5S
	1,200	8×20	0.069	0.27	1,050	EKYA100E□□122MH20D
	1,200	10×16	0.060	0.24	1,300	EKYA100E□□122MJ16S
	1,800	10×20	0.046	0.18	1,400	EKYA100E□□182MJ20S
	2,200	10×25	0.042	0.17	1,650	EKYA100E□□222MJ25S
	3,300	12.5×20	0.035	0.12	1,900	EKYA100E□□332MK20S
16	3,900	12.5×25	0.027	0.089	2,230	EKYA100E□□392MK25S
	6,800	16×25	0.021	0.060	2,930	EKYA100E□□682ML25S
	10,000	16×31.5	0.017	0.050	3,450	EKYA100E□□103MLN3S
	12,000	16×35.5	0.015	0.044	3,610	EKYA100E□□123MLP1S
	47	5×11	0.40	1.6	250	EKYA160E□□470ME11D
	100	5×11	0.40	1.6	250	EKYA160E□□101ME11D
	220	6.3×11	0.22	0.87	400	EKYA160E□□221MF11D
	270	6.3×11	0.22	0.87	400	EKYA160E□□271MF11D
	470	8×11.5	0.13	0.52	640	EKYA160E□□471MHB5D
	680	8×15	0.087	0.35	840	EKYA160E□□681MH15D
	680	10×12.5	0.080	0.32	865	EKYA160E□□681MJC5S
	820	8×20	0.069	0.27	1,050	EKYA160E□□821MH20D
25	1,000	10×16	0.060	0.24	1,300	EKYA160E□□102MJ16S
	1,500	10×20	0.046	0.18	1,400	EKYA160E□□152MJ20S
	1,800	10×25	0.042	0.17	1,650	EKYA160E□□182MJ25S
	2,200	12.5×20	0.035	0.12	1,900	EKYA160E□□222MK20S
	3,300	12.5×25	0.027	0.089	2,230	EKYA160E□□332MK25S
	4,700	16×25	0.021	0.060	2,930	EKYA160E□□472ML25S
	5,600	16×25	0.021	0.060	2,930	EKYA160E□□562ML25S
	6,800	16×31.5	0.017	0.050	3,450	EKYA160E□□682MLN3S
	8,200	16×31.5	0.017	0.050	3,450	EKYA160E□□822MLN3S
	10,000	16×35.5	0.015	0.044	3,610	EKYA160E□□103MLP1S
	33	5×11	0.40	1.6	250	EKYA250E□□330ME11D
	47	5×11	0.40	1.6	250	EKYA250E□□470ME11D
25	68	5×11	0.40	1.6	250	EKYA250E□□680ME11D
	150	6.3×11	0.22	0.87	400	EKYA250E□□151MF11D
	330	8×11.5	0.13	0.52	640	EKYA250E□□331MHB5D
	390	8×15	0.087	0.35	840	EKYA250E□□391MH15D
	470	10×12.5	0.080	0.32	865	EKYA250E□□471MJC5S
	560	8×20	0.069	0.27	1,050	EKYA250E□□561MH20D
	680	10×16	0.060	0.24	1,300	EKYA250E□□681MJ16S
	1,000	10×20	0.046	0.18	1,400	EKYA250E□□102MJ20S
	1,200	10×25	0.042	0.17	1,650	EKYA250E□□122MJ25S
	1,500	12.5×20	0.035	0.12	1,900	EKYA250E□□152MK20S
	2,200	12.5×25	0.027	0.089	2,230	EKYA250E□□222MK25S
	3,300	16×25	0.021	0.060	2,930	EKYA250E□□332ML25S
25	3,900	16×31.5	0.017	0.050	3,450	EKYA250E□□392MLN3S
	4,700	16×35.5	0.015	0.044	3,610	EKYA250E□□472MLP1S
	5,600	16×35.5	0.015	0.044	3,610	EKYA250E□□562MLP1S
	6,800	16×35.5	0.015	0.044	3,610	EKYA250E□□682MLP1S
	8,200	16×35.5	0.015	0.044	3,610	EKYA250E□□822MLP1S
	10,000	16×35.5	0.015	0.044	3,610	EKYA250E□□103MLP1S
	12,000	16×35.5	0.015	0.044	3,610	EKYA250E□□123MLP1S
	15,000	16×35.5	0.015	0.044	3,610	EKYA250E□□153MLP1S
	18,000	16×35.5	0.015	0.044	3,610	EKYA250E□□183MLP1S
	22,000	16×35.5	0.015	0.044	3,610	EKYA250E□□223MLP1S
	27,000	16×35.5	0.015	0.044	3,610	EKYA250E□□273MLP1S
	33,000	16×35.5	0.015	0.044	3,610	EKYA250E□□333MLP1S
25	33	5×11	0.40	1.6	250	EKYA350E□□330ME11D
	47	5×11	0.40	1.6	250	EKYA350E□□470ME11D
	68	5×11	0.40	1.6	250	EKYA350E□□680ME11D
	150	6.3×11	0.22	0.87	400	EKYA350E□□151MF11D
	330	8×11.5	0.13	0.52	640	EKYA350E□□331MHB5D
	390	8×15	0.087	0.35	840	EKYA350E□□391MH15D
	470	10×12.5	0.080	0.32	865	EKYA350E□□471MJC5S
	560	8×20	0.069	0.27	1,050	EKYA350E□□561MH20D
	680	10×16	0.060	0.24	1,300	EKYA350E□□681MJ16S
	1,000	10×20	0.046	0.18	1,400	EKYA350E□□102MJ20S
	1,200	10×25	0.042	0.17	1,650	EKYA350E□□122MJ25S
	1,500	12.5×20	0.035	0.12	1,900	EKYA350E□□152MK20S
25	2,200	12.5×25	0.027	0.089	2,230	EKYA350E□□222MK25S
	3,300	16×25	0.021	0.060	2,930	EKYA350E□□332ML25S
	3,900	16×31.5	0.017	0.050	3,450	EKYA350E□□392MLN3S
	4,700	16×35.5	0.015	0.044	3,610	EKYA350E□□472MLP1S
	5,600	16×35.5	0.015	0.044	3,610	EKYA350E□□562MLP1S
	6,800	16×35.5	0.015	0.044	3,610	EKYA350E□□682MLP1S
	8,200	16×35.5	0.015	0.044	3,610	EKYA350E□□822MLP1S
	10,000	16×35.5	0.015	0.044	3,610	EKYA350E□□103MLP1S
	12,000	16×35.5	0.015	0.044	3,610	EKYA350E□□123MLP1S
	15,000	16×35.5	0.015	0.044	3,610	EKYA350E□□153MLP1S
	18,000	16×35.5	0.015	0.044	3,610	EKYA350E□□183MLP1S
	22,000	16×35.5	0.015	0.044	3,610	EKYA350E□□223MLP1S
25	33	5×11	0.40	1.6	250	EKYA450E□□330ME11D
	47	5×11	0.40	1.6	250	EKYA450E□□470ME11D
	68	5×11	0.40	1.6	250	EKYA450E□□680ME11D
	150	6.3×11	0.22	0.87	400	EKYA450E□□151MF11D
	330	8×11.5	0.13	0.52	640	EKYA450E□□331MHB5D
	390	8×15	0.087	0.35	840	EKYA450E□□391MH15D
	470	10×12.5	0.080	0.32	865	EKYA450E□□471MJC5S
	560	8×20	0.069	0.27	1,050	EKYA450E□□561MH20D
	680	10×16	0.060	0.24	1,300	EKYA450E□□681MJ16S
	1,000	10×20	0.046	0.18	1,400	EKYA450E□□102MJ20S
	1,200	10×25	0.042	0.17	1,650	EKYA450E□□122MJ25S
	1,500	12.5×20	0.035	0.12	1,900	EKYA450E□□152MK20S
25	2,200	12.5×25	0.027	0.089	2,230	EKYA450E□□222MK25S
	3,300	16×25	0.021	0.060	2,930	EKYA450E□□332ML25S
	3,900	16×31.5	0.017	0.050	3,450	EKYA450E□□392MLN3S
	4,700	16×35.5	0.015	0.044	3,610	EKYA450E□□472MLP1S
	5,600	16×35.5	0.015	0.044	3,610	EKYA450E□□562MLP1S
	6,800	16×35.5	0.015	0.044	3,610	EKYA450E□□682MLP1S
	8,200	16×35.5	0.015	0.044	3,610	EKYA450E□□822MLP1S
	10,000	16×35.5	0.015	0.044	3,610	EKYA450E□□103MLP1S
	12,000	16×35.5	0.015	0.044	3,610	EKYA450E□□123MLP1S
	15,000	16×35.5	0.015	0.044	3,610	EKYA450E□□153MLP1S
	18,000	16×35.5	0.015	0.044	3,610	EKYA450E□□183MLP1S
	22,000	16×35.5	0.015	0.044	3,610	EKYA450E□□223MLP1S
25	33	5×11	0.40	1.6	250	EKYA550E□□330ME11D
	47	5×11	0.40	1.6	250	EKYA550E□□470ME11D
	68	5×11	0.40	1.6	250	EKYA550E□□680ME11D
	150	6.3×11	0.22	0.87	400	EKYA550E□□151MF11D
	330	8×11.5	0.13	0.52	640	EKYA550E□□331MHB5D
	390	8×15	0.087	0.35	840	EKYA550E□□391MH15D
	470	10×12.5	0.080	0.32	865	EKYA550E□□471MJC5S
	560	8×20	0.069	0.27	1,050	EKYA550E□□561MH20D
	680	10×16	0.060	0.24	1,300	EKYA550E□□681MJ16S
	1,000	10×20	0.046	0.18	1,400	EKYA550E□□102MJ20S
	1,200	10×25	0.042	0.17	1,650	EKYA550E□□122MJ25S
	1,500	12.5×20	0.035	0.12	1,900	EKYA550E□□152MK20S
25	2,200	12.5×25	0.027	0.089	2,230	EKYA550E□□222MK25S
	3,300	16×25	0.021	0.060	2,930	EKYA550E□□332ML25S
	3,900	16×31.5	0.017	0.050	3,450	EKYA550E□□392MLN3S
	4,700	16×35.5	0.015	0.044	3,610	EKYA550E□□472MLP1S
	5,600	16×35.5	0.015	0.044	3,610	EKYA550E□□562MLP1S
	6,800	16×35.5	0.015	0.044	3,610	EKYA550E□□682MLP1S
	8,200	16×35.5	0.015	0.044	3,610	EKYA550E□□822MLP1S
	10,000	16×35.5	0.015	0.044	3,610	EKYA550E□□103MLP1S
	12,000	16×35.5	0.015	0.044	3,610	EKYA550E□□



KYA Series

◆STANDARD RATINGS

WV (V _{dc})	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.

Production of the products shown in □□□□ is scheduled to be discontinued.

◆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 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.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.
- We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.
- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.
The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.
In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

[Part Numbering System](#)

[Part Numbering System \(Appendix\)](#)

[Standardization](#)

[Available Items by Manufacturing Locations](#)

[Environmental Measures](#)

[Technical Note](#)

[Precautions and Guidelines](#)

[Recommended Soldering Conditions](#)

[Taping, Lead-preforming and Packaging](#)

[Available Terminals for Snap-in and Screw Mount Type](#)