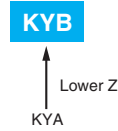


KYB Series

- Low 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
- RoHS2 Compliant



SPECIFICATIONS

Items	Characteristics										
Category Temperature Range	-40 to +105°C										
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	
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.										
	Rated Voltage(V _{dc})	6.3 to 10V _{dc}					16 to 100V _{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	≤ ±30% of the initial value					≤ ±25% of the initial value				
	D.F. (tan δ)	≤200% of the initial specified value					≤200% of the initial specified value				
	Leakage current	≤The initial specified value					≤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 (V _{ac})	Cap (μF)	Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.	WV (V _{ac})	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						20°C	-10°C		
6.3	180	5×11	0.29	1.2	340	EKYB6R3E□□181ME11D	16	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	8×11.5	0.087	0.35	840	EKYB6R3E□□821MHB5D		5,600	12.5×40	0.017	0.068	3,640	EKYB160E□□562MK40S
	1,200	8×15	0.069	0.28	1,050	EKYB6R3E□□122MH15D		5,600	16×25	0.020	0.080	3,140	EKYB160E□□562ML25S
	1,200	10×12.5	0.064	0.26	1,050	EKYB6R3E□□122MJC5S		6,800	16×31.5	0.016	0.064	3,610	EKYB160E□□682MLN3S
	1,500	8×20	0.060	0.24	1,210	EKYB6R3E□□152MH20D		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
	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
	4,700	12.5×25	0.024	0.096	2,530	EKYB6R3E□□472MK20S		82	5×11	0.29	1.2	340	EKYB250E□□820ME11D
	6,800	12.5×30	0.021	0.084	2,860	EKYB6R3E□□682MK30S		150	6.3×11	0.15	0.60	540	EKYB250E□□151MF11D
	6,800	16×20	0.025	0.10	2,610	EKYB6R3E□□682ML20S		330	8×11.5	0.087	0.35	840	EKYB250E□□331MHB5D
	8,200	12.5×35	0.018	0.072	3,140	EKYB6R3E□□822MK35S		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	18×25	0.017	0.068	3,530	EKYB6R3E□□123MM25S		1,200	10×25	0.031	0.13	1,910	EKYB250E□□122MJ25S
	15,000	16×35.5	0.014	0.056	4,080	EKYB6R3E□□153MLP1S		1,500	10×30	0.027	0.11	2,230	EKYB250E□□152MJ30S
	15,000	18×31.5	0.014	0.056	4,220	EKYB6R3E□□153MMN3S		1,500	12.5×20	0.027	0.11	2,230	EKYB250E□□152MK20S
18,000	16×40	0.013	0.052	4,220	EKYB6R3E□□183ML40S	2,200	12.5×25	0.024	0.096	2,530	EKYB250E□□222MK25S		
18,000	18×35.5	0.012	0.048	4,280	EKYB6R3E□□183MMP1S	2,700	12.5×30	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		
10	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	12.5×40	0.017	0.068	3,640	EKYB250E□□392MK40S	
	820	8×15	0.069	0.28	1,050	EKYB100E□□821MH15D	3,900	16×25	0.020	0.080	3,140	EKYB250E□□392ML25S	
	1,000	8×20	0.060	0.24	1,210	EKYB100E□□102MH20D	4,700	16×31.5	0.016	0.064	3,610	EKYB250E□□472MLN3S	
	1,000	10×12.5	0.064	0.26	1,050	EKYB100E□□102MJC5S	4,700	18×25	0.017	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	
	3,900	12.5×25	0.024	0.096	2,530	EKYB100E□□392MK25S	100	6.3×11	0.15	0.60	540	EKYB350E□□101MF11D	
	4,700	12.5×30	0.021	0.084	2,860	EKYB100E□□472MK30S	180	8×11.5	0.087	0.35	840	EKYB350E□□181MHB5D	
	4,700	16×20	0.025	0.10	2,610	EKYB100E□□472ML20S	270	8×15	0.069	0.28	1,050	EKYB350E□□271MH15D	
	5,600	12.5×35	0.018	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	0.084	3,000	EKYB100E□□682MM20S	680	10×20	0.037	0.15	1,650	EKYB350E□□681MJ20S	
	8,200	16×31.5	0.016	0.064	3,610	EKYB100E□□822MLN3S	820	10×25	0.031	0.13	1,910	EKYB350E□□821MJ25S	
	8,200	18×25	0.017	0.068	3,530	EKYB100E□□822MM25S	1,000	10×30	0.027	0.11	2,230	EKYB350E□□102MJ30S	
	10,000	16×35.5	0.014	0.056	4,080	EKYB100E□□103MLP1S	1,000	12.5×20	0.027	0.11	2,230	EKYB350E□□102MK20S	
	10,000	18×31.5	0.014	0.056	4,220	EKYB100E□□103MMN3S	1,500	12.5×25	0.024	0.096	2,530	EKYB350E□□152MK25S	
12,000	16×40	0.013	0.052	4,220	EKYB100E□□123ML40S	1,800	12.5×30	0.021	0.084	2,860	EKYB350E□□182MK30S		
12,000	18×35.5	0.012	0.048	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	12.5×35	0.018	0.072	3,140	EKYB350E□□222MK35S		
16	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	12.5×40	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□□681MH15D	3,300	16×31.5	0.016	0.064	3,610	EKYB350E□□332MLN3S	
	680	10×12.5	0.064	0.26	1,050	EKYB160E□□681MJC5S	3,300	18×25	0.017	0.068	3,530	EKYB350E□□332MM25S	
	820	8×20	0.060	0.24	1,210	EKYB160E□□821MH20D	3,900	16×35.5	0.014	0.056	4,080	EKYB350E□□392MLP1S	
	1,000	10×16	0.049	0.20	1,400	EKYB160E□□102MJ16S	4,700	16×40	0.013	0.052	4,220	EKYB350E□□472ML40S	
	1,500	10×20	0.037	0.15	1,650	EKYB160E□□152MJ20S	4,700	18×31.5	0.014	0.056	4,220	EKYB350E□□472MMN3S	
	1,800	10×25	0.031	0.13	1,910	EKYB160E□□182MJ25S	5,600	18×35.5	0.012	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	12.5×20	0.027	0.11	2,230	EKYB160E□□222MK20S	56	6.3×11	0.20	0.80	385	EKYB500E□□560MF11D	
	3,300	12.5×25	0.024	0.096	2,530	EKYB160E□□332MK25S	100	8×11.5	0.12	0.48	620	EKYB500E□□101MHB5D	
	3,900	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	

□ □ : Enter the appropriate lead forming or taping code.
 Production of the products shown in [] is scheduled to be discontinued.



KYB Series

STANDARD RATINGS

Table with columns: WV (Vdc), Cap (µF), Case size φD×L(mm), Impedance (Ω max./100kHz) at 20°C and -10°C, Rated ripple current (mA rms/105°C, 100kHz), Part No. Includes sub-sections for 50V, 63V, and 80V ratings.

□ □ : 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

Table with columns: Capacitance(µF), Frequency(Hz), 120, 1k, 10k, 100k. Rows include capacitance ranges like 6.8 to 180, 220 to 560, etc.

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](#)

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[Recommended Soldering Conditions](#)

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

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

单击下面可查看定价，库存，交付和生命周期等信息

[>>NCC\(贵弥功\(黑金刚\)\)](#)