



- New highly reliable electrolyte is employed to minimize ESR and maximize ripple current.
- For motercycle ACG starter.
- Endurance with ripple current: 3,000 to 5,000 hours at 105°C
- Rated voltage range: 16 to 100V, Capacitance range: 68 to 12,000μF
- Non solvent resistant type
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.



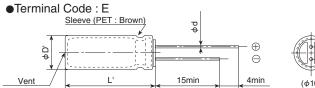
#### **◆SPECIFICATIONS**

Items	Characteristics									
Category Temperature Range	-40 to +105℃									
Rated Voltage Range	16 to 100V <sub>dc</sub>									
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 C after 2 minutes)									
Dissipation Factor	Rated voltage (Vdc)	16V	25V	35V	50V	63V	80V	100V		
(tan δ)	tan $\delta$ (Max.)	0.16	0.14	0.12	0.10	0.09	0.09	0.08		
	When nominal capacitano	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)								
Low Temperature	Rated voltage (Vdc)	16V	25V	35V	50V	63V	80V	100V		
Characteristics	Z (-25°C) / Z (+20°C)	3	2	2	2	2	2	2		
(Max. Impedance Ratio)	Z (-40°C) / Z (+20°C)	8	5	4	3	3	3	3	(at 120Hz)	
Endurance The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC vo							stored 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 5,000 hours (3,000 hours for φ 10) at 105°C.									
	Capacitance change ≤±25% of the initial value									
	D.F. (tan $\delta$ )	.F. (tan $\delta$ ) $\leq$ 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°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 $\delta$ )	≦200% of the initial specified value					lue	1		
	Leakage current	≦The	initial	specifi	ed valu	е				

<sup>\*</sup>Note: If any doubts arises, measure the leakage current after carrying out the following voltage treatment.

Voltage treatment: DC rated voltage is applied to the capacitors for 30 to 60 minutes at room temperature.

### **◆DIMENSIONS** [mm]



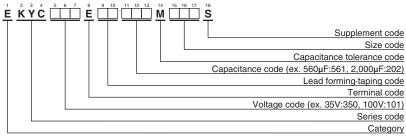


Gas escape end seal



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)"

KYC series is the product, based on AEC-Q200 standard, for specific applications or market such as compact mobility. Please contact us when selecting KYC series for the important applications related to automotive or its safety.

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.





# **STANDARD RATINGS**

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	ESR (Ω max./ 20°C, 100kHz)	Rated ripple current (mArms/ 105°C, 100kHz)	Part No.	WV (V <sub>dc</sub> )	Cap (µF)	Case size φD×L(mm)	ESR (Ω max./ 20°C, 100kHz)	Rated ripple current (mArms/ 105°C, 100kHz)	Part No.
	910	10×12.5	0.14	1,120	EKYC160E□□911MJC5S	П	470	12.5×20	0.050	2,150	EKYC630E□□471MK20S
	1,300	10×16	0.10	1,570	EKYC160E□□132MJ16S	i i	680	12.5×25	0.037	2,820	EKYC630E□□681MK25S
	2,000	10×20	0.065	1,940	EKYC160E□□202MJ20S		820	16×20	0.038	2,530	EKYC630E□□821ML20S
	3,300	12.5×20	0.050	2,150	EKYC160E□□332MK20S		910	12.5×30	0.029	3,120	EKYC630E□□911MK30S
	4,700	12.5×25	0.037	2,820	EKYC160E□□472MK25S		1,000	12.5×35	0.025	3,300	EKYC630E□□102MK35S
16	5,600	12.5×30	0.029	3,120	EKYC160E□□562MK30S		1,200	16×25	0.031	3,240	EKYC630E□□122ML25S
1.0	5,600	16×20	0.038	2,530	EKYC160E□□562ML20S		1,200	18×20	0.037	2,700	EKYC630E□□122MM20S
	6,800	18×20	0.037	2,700	EKYC160E□□682MM20S	63	1,300	12.5×40	0.021	3,600	EKYC630E 132MK40S
	7,500	16×25	0.031	3,240	EKYC160E 752ML25S		1,500	16×30	0.025	3,580	EKYC630E 152ML30S
	9,100	16×30	0.025	3,580	EKYC160E 912ML30S		1,600	18×25	0.030	3,350	EKYC630E 162MM25S
	10,000	18×25	0.030	3,350	EKYC160E 103MM25S		1,800	16×35	0.022	3,800	EKYC630E 182ML35S
	12,000	18×30	0.024	3,710	EKYC160E 123MM30S		2,000	18×30	0.024	3,700	EKYC630E 202MM30S
	560	10×12.5	0.14	1,120	EKYC250E 561MJC5S		2,400	16×40	0.018	4,100	EKYC630E 242ML40S
	820	10×16	0.10 0.065	1,570 1,940	EKYC250E B21MJ16S		2,400	18×35	0.021 0.017	4,000	EKYC630E 242MM35S
	1,300 2,000	10×20 12.5×20	0.050	2,150	EKYC250E□□132MJ20S EKYC250E□□202MK20S	Н	3,300 100	18×40 10×12.5	0.017	4,300 1,120	EKYC630E 332MM40S EKYC800E 101MJC5S
1	3,000	12.5×25	0.037	2,130	EKYC250E 302MK25S		150	10×12.5	0.14	1,570	EKYC800E 151MJ16S
1	3,600	16×20	0.037	2,530	EKYC250E 362ML20S		220	10×10 10×20	0.10	1,940	EKYC800E 221MJ20S
25	3,900	12.5×30	0.038	3,120	EKYC250E 392MK30S		330	12.5×20	0.050	2,150	EKYC800E 331MK20S
	4,700	18×20	0.023	2,700	EKYC250E 472MM20S		470	12.5×25	0.037	2,820	EKYC800E 471MK25S
	5,100	16×25	0.031	3,240	EKYC250E 512ML25S	100-	620	16×20	0.038	2,530	EKYC800E 621ML20S
	6,200	16×30	0.025	3,580	EKYC250E 622ML30S		680	12.5×30	0.029	3,120	EKYC800E 681MK30S
1 1	6,200	18×25	0.030	3,350	EKYC250E 622MM25S		680	12.5×35	0.025	3,300	EKYC800E 681MK35S
1 1	8,200	18×30	0.024	3,710	EKYC250E B22MM30S		820	18×20	0.037	2,700	EKYC800E B21MM20S
	390	10×12.5	0.14	1,120	EKYC350E□□391MJC5S		910	16×25	0.031	3,240	EKYC800E□□911ML25S
i i	560	10×16	0.10	1,570	EKYC350E□□561MJ16S		1,000	12.5×40	0.021	3,600	EKYC800E□□102MK40S
i i	820	10×20	0.065	1,940	EKYC350E□□821MJ20S		1,200	16×30	0.025	3,580	EKYC800E□□122ML30S
	1,300	12.5×20	0.050	2,150	EKYC350E□□132MK20S		1,200	18×25	0.030	3,350	EKYC800E□□122MM25S
	1,800	12.5×25	0.037	2,820	EKYC350E□□182MK25S		1,300	16×35	0.022	3,800	EKYC800E□□132ML35S
35	2,200	16×20	0.038	2,530	EKYC350E□□222ML20S		1,500	18×30	0.024	3,700	EKYC800E□□152MM30S
33	2,400	12.5×30	0.029	3,120	EKYC350E□□242MK30S		1,800	16×40	0.018	4,100	EKYC800E□□182ML40S
	3,000	18×20	0.037	2,700	EKYC350E□□302MM20S		1,800	18×35	0.021	4,000	EKYC800E□□182MM35S
	3,300	16×25	0.031	3,240	EKYC350E□□332ML25S		2,400	18×40	0.017	4,300	EKYC800E□□242MM40S
	3,900	16×30	0.025	3,580	EKYC350E□□392ML30S		68	10×12.5	0.14	1,120	EKYC101E□□680MJC5S
	4,300	18×25	0.030	3,350	EKYC350E 432MM25S		100	10×16	0.10	1,570	EKYC101E 101MJ16S
	5,100	18×30	0.024	3,710	EKYC350E 512MM30S		150	10×20	0.065	1,940	EKYC101E 151MJ20S
	180	10×12.5	0.14	1,120	EKYC500E 181MJC5S		220	12.5×20	0.050	2,150	EKYC101E 221MK20S
	300	10×16	0.10	1,570	EKYC500E 301MJ16S		330	12.5×25	0.037	2,820	EKYC101E 331MK25S
	430	10×20	0.065	1,940	EKYC500E 431MJ20S		390	12.5×30	0.029	3,120	EKYC101E 391MK30S
	680	12.5×20	0.050	2,150	EKYC500E 681MK20S		390	16×20	0.038	2,530	EKYC101E 391ML20S
	910	12.5×25	0.037	2,820	EKYC500E 911MK25S		470	12.5×35	0.025	3,300	EKYC101E 471MK35S
50	1,200	16×20	0.038	2,530	EKYC500E 122ML20S		560	12.5×40	0.021	3,600	EKYC101E 561MK40S
	1,300	12.5×30	0.029	3,120	EKYC500E 132MK30S		560	16×25	0.031	3,240	EKYC101E 561ML25S
	1,500 1,600	18×20 16×25	0.037 0.031	2,700 3,240	EKYC500E □ 152MM20S EKYC500E □ 162ML25S		560 680	18×20 16×30	0.037 0.025	2,700 3,580	EKYC101E 561MM20S EKYC101E 681ML30S
	2,000	16×25	0.031	3,580	EKYC500E 202ML30S		820	16×35	0.025	3,800	EKYC101E B821ML35S
	2,200	18×25	0.025	3,350	EKYC500E 222MM25S		820	18×25	0.022	3,350	EKYC101E 821MM25S
	2,700	18×30	0.030	3,710	EKYC500E 272MM30S		1,000	18×30	0.030	3,700	EKYC101E 102MM30S
	150	10×12.5	0.024	1,120	EKYC630E 151MJC5S		1,200	16×40	0.024	4,100	EKYC101E 102MIN303
63	220	10×12.3	0.10	1,570	EKYC630E 221MJ16S		1,200	18×35	0.010	4,000	EKYC101E 122MM35S
03	330	10×10	0.065	1,940	EKYC630E 331MJ20S		1,500	18×40	0.017	4,300	EKYC101E 152MM40S
			4- ll f	1,010		_	1,000	10/10	0.017	1,000	

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

# **PRATED RIPPLE CURRENT MULTIPLIERS**

### Frequency Multipliers

Capacitance(uF) Frequency(Hz)	120	1k	10k	100k
			_	
68 to 150	0.40	0.75	0.90	1.00
180 to 220	0.40	0.82	0.93	1.00
300 to 560	0.50	0.85	0.94	1.00
620 to 2,000	0.60	0.87	0.95	1.00
2,200 to 4,300	0.75	0.90	0.95	1.00
4,700 to 12,000	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.

KYC series is the product, based on AEC-Q200 standard, for specific applications or market such as compact mobility. Please contact us when selecting KYC series for the important applications related to automotive or its safety.



- 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.
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  - 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

products

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