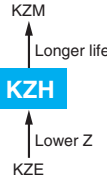


KZH Series

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

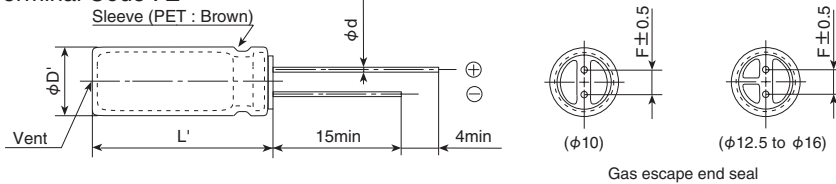


SPECIFICATIONS

Items	Characteristics					
Category	-40 to +105°C					
Temperature Range	-40 to +105°C					
Rated Voltage Range	6.3 to 35V _{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
	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12
	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)	Z (-25°C) / Z (+20°C)	2max.				
	Z (-40°C) / Z (+20°C)	3max.				
	(at 120Hz)					
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 6,000 hours at 105°C.					
	Capacitance change	≤ ±25% of the initial value (6.3, 10V _{dc} : ≤ ±30%)				
	D.F. (tan δ)	≤ 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 (6.3, 10V _{dc} : ≤ ±30%)				
	D.F. (tan δ)	≤ 200% of the initial specified value				
	Leakage current	≤ The initial specified value				

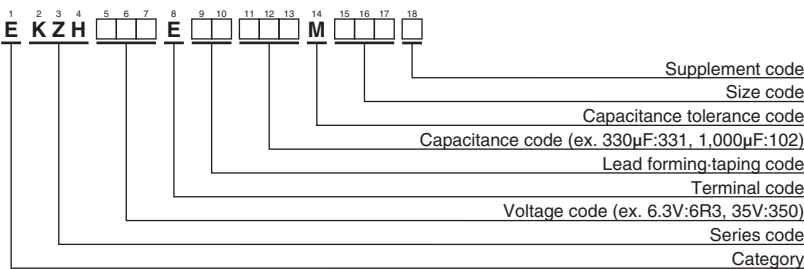
DIMENSIONS [mm]

Terminal Code : E



φD	10	12.5	16
φd	0.6	0.6	0.8
F	5.0	5.0	7.5
φD'	φD+0.5max.		
L'	L+1.5max.		

PART NUMBERING SYSTEM



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



KZH 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.	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						20°C	-10°C		
6.3	1,200	10×12.5	0.045	0.14	1,240	EKZH6R3E□□122MJC5S	16	2,700	12.5×25	0.015	0.038	2,900	EKZH160E□□272MK25S
	1,800	10×16	0.032	0.10	1,650	EKZH6R3E□□182MJ16S		3,300	12.5×30	0.013	0.033	3,450	EKZH160E□□332MK30S
	2,200	10×20	0.020	0.060	1,960	EKZH6R3E□□222MJ20S		3,300	16×20	0.015	0.038	3,250	EKZH160E□□332ML20S
	2,700	10×25	0.018	0.054	2,250	EKZH6R3E□□272MJ25S		3,900	12.5×35	0.012	0.031	3,570	EKZH160E□□392MK35S
	3,900	12.5×20	0.017	0.043	2,480	EKZH6R3E□□392MK20S		4,700	16×25	0.013	0.035	3,630	EKZH160E□□472ML25S
	4,700	12.5×25	0.015	0.038	2,900	EKZH6R3E□□472MK25S	25	470	10×12.5	0.045	0.14	1,240	EKZH250E□□471MJC5S
	5,600	12.5×30	0.013	0.033	3,450	EKZH6R3E□□562MK30S		680	10×16	0.032	0.10	1,650	EKZH250E□□681MJ16S
	6,800	12.5×35	0.012	0.031	3,570	EKZH6R3E□□682MK35S		820	10×20	0.020	0.060	1,960	EKZH250E□□821MJ20S
	6,800	16×20	0.015	0.038	3,250	EKZH6R3E□□682ML20S		1,000	10×25	0.018	0.054	2,250	EKZH250E□□102MJ25S
8,200	16×25	0.013	0.035	3,630	EKZH6R3E□□822ML25S	1,500		12.5×20	0.017	0.043	2,480	EKZH250E□□152MK20S	
10	1,000	10×12.5	0.045	0.14	1,240	EKZH100E□□102MJC5S	25	1,800	12.5×25	0.015	0.038	2,900	EKZH250E□□182MK25S
	1,500	10×16	0.032	0.10	1,650	EKZH100E□□152MJ16S		2,200	12.5×30	0.013	0.033	3,450	EKZH250E□□222MK30S
	1,800	10×20	0.020	0.060	1,960	EKZH100E□□182MJ20S		2,200	16×20	0.015	0.038	3,250	EKZH250E□□222ML20S
	2,200	10×25	0.018	0.054	2,250	EKZH100E□□222MJ25S		2,700	12.5×35	0.012	0.031	3,570	EKZH250E□□272MK35S
	3,300	12.5×20	0.017	0.043	2,480	EKZH100E□□332MK20S		3,300	16×25	0.013	0.035	3,630	EKZH250E□□332ML25S
	3,900	12.5×25	0.015	0.038	2,900	EKZH100E□□392MK25S	35	330	10×12.5	0.045	0.14	1,240	EKZH350E□□331MJC5S
	4,700	12.5×30	0.013	0.033	3,450	EKZH100E□□472MK30S		470	10×16	0.032	0.10	1,650	EKZH350E□□471MJ16S
	4,700	16×20	0.015	0.038	3,250	EKZH100E□□472ML20S		560	10×20	0.020	0.060	1,960	EKZH350E□□561MJ20S
	5,600	12.5×35	0.012	0.031	3,570	EKZH100E□□562MK35S		680	10×25	0.018	0.054	2,250	EKZH350E□□681MJ25S
6,800	16×25	0.013	0.035	3,630	EKZH100E□□682ML25S	1,000	12.5×20	0.017	0.043	2,480	EKZH350E□□102MK20S		
16	680	10×12.5	0.045	0.14	1,240	EKZH160E□□681MJC5S	1,200	12.5×25	0.015	0.038	2,900	EKZH350E□□122MK25S	
	1,000	10×16	0.032	0.10	1,650	EKZH160E□□102MJ16S	1,500	12.5×30	0.013	0.033	3,450	EKZH350E□□152MK30S	
	1,500	10×20	0.020	0.060	1,960	EKZH160E□□152MJ20S	1,500	16×20	0.015	0.038	3,250	EKZH350E□□152ML20S	
	1,800	10×25	0.018	0.054	2,250	EKZH160E□□182MJ25S	1,800	12.5×35	0.012	0.031	3,570	EKZH350E□□182MK35S	
	2,200	12.5×20	0.017	0.043	2,480	EKZH160E□□222MK20S	2,200	16×25	0.013	0.035	3,630	EKZH350E□□222ML25S	

□□ : Enter the appropriate lead forming or taping code.

◆ RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Capacitance(μF)	Frequency(Hz)			
	120	1k	10k	100k
330 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 8,200	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.
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- 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](#)