



- Newly innovative electrolyte is employed to minimize impedance
- Endurance with ripple current: 5,000 to 6,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

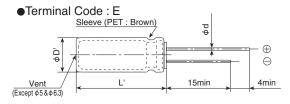


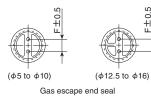


SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-40 to +105℃								
Rated Voltage Range	6.3 to 35V _{dc}								
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)	6.3V 10V 16V 25V 35V							
(tan δ)	tan δ (Max.)	0.22 0.19 0.16 0.14 0.12							
	When nominal capacitan	ce exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)							
Low Temperature	Z (-25°C) / Z (+20°C)	2max.							
Characteristics	Z (-40°C) / Z (+20°C)	3max.							
(Max. Impedance Ratio)		(at 120Hz)							
Endurance	nce The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC v								
	ripple current is applied (the peak voltage shall not exceed the rated voltage)for the specified period of time at 105°C.								
	Time	φ 5 & φ 6.3 : 5,000hours φ 8 to φ 16 : 6,000hours							
	Capacitance change	$\leq \pm 25\%$ of the initial value (6.3, $10V_{\odot} :\leq \pm 30\%$)							
	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	$\leq \pm 25\%$ of the initial value (6.3, $10V_{dc} : \leq \pm 30\%$)							
	D.F. (tan δ)	≦200% of the initial specified value							
	Leakage current	≦The initial specified value							

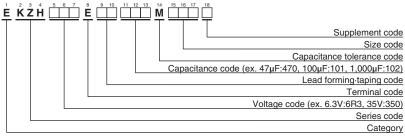
◆DIMENSIONS [mm]





١	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				
	φD'	φD+0.5max.									
	L'	L+1.5max.									

◆PART NUMBERING SYSTEM



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





STANDARD RATINGS

WV (V _{dc})		Case size φD×L(mm)	Impedance (Ω max./100kHz)		Rated ripple current (mArms/	WV (V _{dc})	Cap (µF)	Case size	Impedance (Ω max./100kHz)		Rated ripple current (mArms/	Part No.	
`			20℃	-10℃	105℃, 100kHz)			(/	,	20℃	-10℃	105℃, 100kHz)	
	220	5×11	0.24	0.80	330	EKZH6R3E□□221ME11D		1,800	10×25	0.018	0.054	2,250	EKZH160E□□182MJ25S
	470	6.3×11	0.11	0.35	500	EKZH6R3E□□471MF11D		2,200	12.5×20	0.017	0.043	2,480	EKZH160E□□222MK20S
	820	8×11.5	0.062	0.19	900	EKZH6R3E□□821MHB5D		2,700	12.5×25	0.015	0.038	2,900	EKZH160E□□272MK25S
	1,200	8×15	0.048	0.15	1,210	EKZH6R3E□□122MH15D	16	3,300	12.5×30	0.013	0.033	3,450	EKZH160E□□332MK30S
	1,200	10×12.5	0.045	0.14	1,240	EKZH6R3E□□122MJC5S		3,300	16×20	0.015	0.038	3,250	EKZH160E□□332ML20S
	1,500	8×20	0.033	0.11	1,410	EKZH6R3E□□152MH20D		3,900	12.5×35	0.012	0.031	3,570	EKZH160E□□392MK35S
	1,800	10×16	0.032	0.10	1,650	EKZH6R3E□□182MJ16S		4,700	16×25	0.013	0.035	3,630	EKZH160E□□472ML25S
6.3		10×20	0.020	0.060	1,960	EKZH6R3E□□222MJ20S		68	5×11	0.24	0.80	330	EKZH250E□□680ME11D
	2,700	10×25	0.018	0.054	2,250	EKZH6R3E□□272MJ25S		150	6.3×11	0.11	0.35	500	EKZH250E□□151MF11D
	3,900	12.5×20	0.017	0.043	2,480	EKZH6R3E□□392MK20S		330	8×11.5	0.062	0.19	900	EKZH250E□□331MHB5D
	4,700	12.5×25	0.015	0.038	2,900	EKZH6R3E□□472MK25S		390	8×15	0.048	0.15	1,210	EKZH250E□□391MH15D
	5,600	12.5×30	0.013	0.033	3,450	EKZH6R3E□□562MK30S		470	10×12.5	0.045	0.14	1,240	EKZH250E□□471MJC5S
	6,800	12.5×35	0.012	0.031	3,570	EKZH6R3E□□682MK35S		560	8×20	0.033	0.11	1,410	EKZH250E□□561MH20D
	6,800	16×20	0.015	0.038	3,250	EKZH6R3E□□682ML20S		680	10×16	0.032	0.10	1,650	EKZH250E□□681MJ16S
	8,200	16×25	0.013	0.035	3,630	EKZH6R3E□□822ML25S	25	820	10×20	0.020	0.060	1,960	EKZH250E□□821MJ20S
	150	5×11	0.24	0.80	330	EKZH100E 151ME11D	35	1,000	10×25	0.018	0.054	2,250	EKZH250E□□102MJ25S
	330	6.3×11	0.11	0.35	500	EKZH100E 331MF11D		1,500	12.5×20	0.017	0.043	2,480	EKZH250E 152MK20S
	680	8×11.5	0.062	0.19	900	EKZH100E□□681MHB5D		1,800	12.5×25	0.015	0.038	2,900	EKZH250E 182MK25S
	1,000	8×15	0.048	0.15	1,210	EKZH100E 102MH15D		2,200	12.5×30	0.013	0.033	3,450	EKZH250E 222MK30S
	1,000	10×12.5	0.045	0.14	1,240	EKZH100E 102MJC5S		2,200	16×20	0.015	0.038	3,250	EKZH250E 222ML20S
	1,500	8×20	0.033	0.11	1,410	EKZH100E 152MH20D		2,700	12.5×35	0.012	0.031	3,570	EKZH250E 272MK35S
140	1,500	10×16	0.032	0.10	1,650	EKZH100E 152MJ16S		3,300	16×25	0.013	0.035	3,630	EKZH250E 332ML25S
10	1,800 2,200	10×20	0.020	0.060	1,960 2,250	EKZH100E □ □ 182MJ20S EKZH100E □ □ 222MJ25S		47 100	5×11	0.24	0.80	330 500	EKZH350E 470ME11D
	3.300	10×25 12.5×20	0.018	0.054	2,250	EKZH100E 332MK20S		220	6.3×11 8×11.5	0.11	0.35	900	EKZH350E□□101MF11D EKZH350E□□221MHB5D
	3,900	12.5×25	0.017	0.043	2,460	EKZH100E□□332MK203		270	8×15	0.062	0.19	1,210	EKZH350E□□271MH15D
	4,700	12.5×25	0.013	0.033	3,450	EKZH100E□□392MK233 EKZH100E□□472MK30S		330	10×12.5	0.046	0.13	1,240	EKZH350E 331MJC5S
	4,700	16×20	0.015	0.038	3,450	EKZH100E 472ML20S		390	8×20	0.043	0.14	1,240	EKZH350E 391MH20D
	5,600	12.5×35	0.013	0.030	3,570	EKZH100E □ □ 562MK35S		470	10×16	0.033	0.10	1,650	EKZH350E 471MJ16S
	6,800	16×25	0.012	0.035	3,630	EKZH100E 682ML25S		560	10×10	0.032	0.060	1,960	EKZH350E 561MJ20S
\vdash	100	5×11	0.24	0.80	330	EKZH160E 101ME11D	00	680	10×25	0.020	0.054	2.250	EKZH350E 681MJ25S
	220	6.3×11	0.11	0.35	500	EKZH160E 221MF11D		1,000	12.5×20	0.017	0.034	2,480	EKZH350E 102MK20S
	470	8×11.5	0.062	0.19	900	EKZH160E 471MHB5D		1,200	12.5×25	0.017	0.038	2,900	EKZH350E 122MK25S
	680	8×15	0.002	0.15	1,210	EKZH160E 681MH15D		1,500	12.5×23	0.013	0.033	3,450	EKZH350E 152MK30S
16	680	10×12.5	0.045	0.14	1,240	EKZH160E 681MJC5S		1,500	16×20	0.015	0.038	3,250	EKZH350E 152ML20S
	1,000	8×20	0.033	0.11	1,410	EKZH160E 102MH20D		1,800	12.5×35	0.012	0.031	3,570	EKZH350E□□182MK35S
	1,000	10×16	0.032	0.10	1,650	EKZH160E 102MJ16S		2,200	16×25	0.012	0.035	3,630	EKZH350E 222ML25S
	1.500	10×20	0.020	0.060	1.960	EKZH160E 152MJ20S		,		2.0.0	3.000	, 0,000	

 $\square\,\square$: 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
0.47 to 150	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 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.

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.



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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

单击下面可查看定价,库存,交付和生命周期等信息

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