

- Ideal for low profile power supply applications
- Longer life form KHE series
- Rated voltage range: 400 to 450Vdc, Capacitance range: 27 to 120µF
- Endurance with ripple current: 5,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant



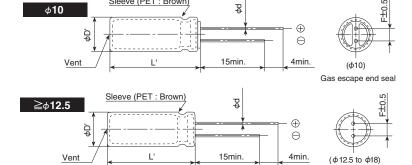


SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	400 to 450V _{dc}	400 to 450V _{dc}						
Capacitance Tolerance	±20% (M)	±20% (M) (at 20℃, 120Hz)						
Leakage Current	I=0.04CV+100 (after 1 minute) I=0.02CV+25 (after 5 minutes) Where, I: Max. leakage current(μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C)							
Dissipation Factor	Rated voltage (V _{dc})	400 to 450V			(11)			
(tan δ)	tan δ (Max.)	0.20			(at 20℃, 120Hz)			
Low Temperature	Rated voltage (V _{dc})	400V	420V	450V				
Characteristics	Z(-25°C)/Z(+20°C)	5	6	6				
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	6	_	_	(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 5,000 hours at 105°C.							
	Capacitance change	≦±20% of the initial value						
	D.F. (tan δ)	≦200% of t	he initial spec	ified value				
	Leakage current	≦The initia	specified val	ue				
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 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	≤±20% of the initial value						
	D.F. (tan δ)	≦200% of the initial specified value		ified value				
	Leakage current	≦500% of t	he initial spec	ified value				

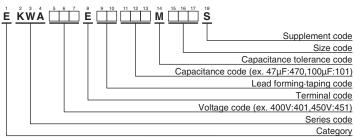
◆DIMENSIONS [mm]

●Terminal Code : E



φD	10	12.5	14.5	16	18	
φd	0.6	0.6	0.8	0.8	8.0	
F	5.0	5.0	7.5	7.5	7.5	
φD'	φD+0.5 max.					
L'	L+2.0 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)	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.
	33	10×30	0.20	320	EKWA401E□□330MJ30S
	39	10×35	0.20	370	EKWA401E□□390MJ35S
	47	10×40	0.20	420	EKWA401E□□470MJ40S
	56	10×45	0.20	480	EKWA401E□□560MJ45S
	56	12.5×30	0.20	460	EKWA401E□□560MK30S
	68	12.5×35	0.20	530	EKWA401E□□680MK35S
400	82	12.5×40	0.20	610	EKWA401E□□820MK40S
400	82	14.5×31.5	0.20	590	EKWA401E□□820MUN3S
	100	12.5×45	0.20	690	EKWA401E□□101MK45S
	100	14.5×40	0.20	700	EKWA401E□□101MU40S
	100	16×31.5	0.20	710	EKWA401E□□101MLN3S
	120	14.5×45	0.20	790	EKWA401E 121MU45S
	120	16×35	0.20	800	EKWA401E□□121ML35S
	120	18×31.5	0.20	800	EKWA401E□□121MMN3S
	33	10×30	0.20	320	EKWA421E□□330MJ30S
	39	10×35	0.20	370	EKWA421E□□390MJ35S
	47	10×40	0.20	420	EKWA421E□□470MJ40S
	56	10×50	0.20	500	EKWA421E□□560MJ50S
	56	12.5×30	0.20	460	EKWA421E□□560MK30S
	68	12.5×35	0.20	530	EKWA421E□□680MK35S
420	68	14.5×31.5	0.20	530	EKWA421E□□680MUN3S
	82	12.5×40	0.20	610	EKWA421E□□820MK40S
	82	14.5×35	0.20	620	EKWA421E□□820MU35S
	100	12.5×50	0.20	680	EKWA421E□□101MK50S
	100	14.5×40	0.20	700	EKWA421E 101MU40S
	100	16×31.5	0.20	710	EKWA421E□□101MLN3S
	120	14.5×45	0.20	790	EKWA421E 121MU45S
	120	16×35	0.20	800	EKWA421E□□121ML35S
	120	18×31.5	0.20	800	EKWA421E□□121MMN3S

WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.
	27	10×30	0.20	290	EKWA451E□□270MJ30S
	33	10×35	0.20	340	EKWA451E□□330MJ35S
	39	10×40	0.20	380	EKWA451E□□390MJ40S
	47	10×45	0.20	440	EKWA451E□□470MJ45S
	47	12.5×30	0.20	420	EKWA451E□□470MK30S
	56	12.5×35	0.20	480	EKWA451E□□560MK35S
450	68	12.5×40	0.20	550	EKWA451E□□680MK40S
450	68	14.5×31.5	0.20	530	EKWA451E□□680MUN3S
	82	12.5×45	0.20	630	EKWA451E□□820MK45S
	82	14.5×35	0.20	620	EKWA451E□□820MU35S
	82	16×31.5	0.20	640	EKWA451E□□820MLN3S
	100	14.5×45	0.20	720	EKWA451E 101MU45S
	100	16×35	0.20	730	EKWA451E□□101ML35S
	120	18×31.5	0.20	800	EKWA451E□□121MMN3S

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
27 to 82	1.00	1.50	1.75	1.80
100 to 120	1.00	1.30	1.40	1.50

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.

 $[\]square\,\square$: Enter the appropriate lead forming or taping code.



- 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.
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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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