



- Ideal for low profile power supply applications
- ODownsize, high ripple design
- Rated voltage range: 400 to 450Vdc, Capacitance range: 27 to 120µF
- Endurance with ripple current : 2,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

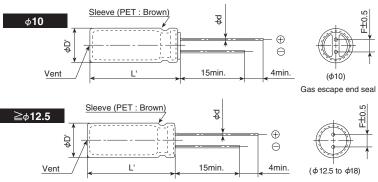


SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40 to +105℃							
Rated Voltage Range	400 to 450V _{dc}							
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)							
Leakage Current		After 1 minu	ite	After 5 minu				
	CV≦1,000	I=0.1CV+40)	I=0.03CV+1	5			
	CV>1,000			25				
	Where, I: Max. leakage current(μ A), C: Nominal capacitance (μ F), V: Rated voltage (V) (at 2							
Dissipation Factor	Rated voltage (V _{dc})	400V	420V	450V				
$(\tan \delta)$	tan δ (Max.)	0.15	0.20	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 2,000 hours at 105°C.							
	Capacitance change	≦±20% of	the initial valu	ue				
	D.F. (tan δ)	≦200% of t	he initial spec	cified value				
	Leakage current	≦The initial	specified val	ue				
Shelf Life						°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	\leq \pm 20% of	the initial valu	ue				
	D.F. (tan δ)	≦200% of the initial specified value						
	Leakage current	≦500% of t	he initial spec	cified value				

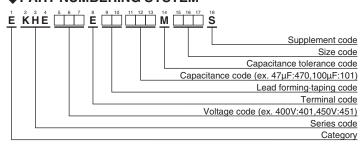
◆DIMENSIONS [mm]

●Terminal Code : E



φD	10	12.5	14.5	16	18		
φd	0.6	0.6	0.8	0.8	0.8		
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	0.15	335	EKHE401E□□330MJ30S
	39	10×35	0.15	385	EKHE401E□□390MJ35S
	47	10×40	0.15	445	EKHE401E□□470MJ40S
	56	10×45	0.15	505	EKHE401E□□560MJ45S
	56	12.5×30	0.15	480	EKHE401E□□560MK30S
	68	12.5×35	0.15	560	EKHE401E□□680MK35S
400	82	12.5×40	0.15	640	EKHE401E□□820MK40S
400	82	14.5×31.5	0.15	625	EKHE401E□□820MUN3S
	100	12.5×45	0.15	730	EKHE401E□□101MK45S
	100	14.5×35	0.15	715	EKHE401E□□101MU35S
	100	16×31.5	0.15	720	EKHE401E□□101MLN3S
	120	14.5×40	0.15	810	EKHE401E□□121MU40S
	120	16×35	0.15	810	EKHE401E□□121ML35S
	120	18×31.5	0.15	815	EKHE401E□□121MMN3S
	33	10×30	0.20	335	EKHE421E□□330MJ30S
	39	10×35	0.20	385	EKHE421E□□390MJ35S
	47	10×40	0.20	445	EKHE421E□□470MJ40S
	56	10×50	0.20	520	EKHE421E□□560MJ50S
	56	12.5×30	0.20	480	EKHE421E□□560MK30S
	68	12.5×35	0.20	560	EKHE421E□□680MK35S
420	82	12.5×40	0.20	640	EKHE421E□□820MK40S
420	82	14.5×31.5	0.20	625	EKHE421E□□820MUN3S
	100	12.5×50	0.20	750	EKHE421E□□101MK50S
	100	14.5×40	0.20	740	EKHE421E□□101MU40S
	100	16×31.5	0.20	720	EKHE421E□□101MLN3S
	120	14.5×45	0.20	835	EKHE421E□□121MU45S
	120	16×35	0.20	810	EKHE421E□□121ML35S
	120	18×31.5	0.20	815	EKHE421E□□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	305	EKHE451E□□270MJ30S
	33	10×35	0.20	355	EKHE451E□□330MJ35S
	39	10×40	0.20	405	EKHE451E□□390MJ40S
	47	10×45	0.20	460	EKHE451E□□470MJ45S
	47	12.5×30	0.20	440	EKHE451E□□470MK30S
	56	12.5×35	0.20	505	EKHE451E□□560MK35S
450	68	12.5×40	0.20	580	EKHE451E□□680MK40S
450	68	14.5×31.5	0.20	570	EKHE451E□□680MUN3S
	82	12.5×45	0.20	660	EKHE451E□□820MK45S
	82	14.5×35	0.20	650	EKHE451E□□820MU35S
	82	16×31.5	0.20	655	EKHE451E□□820MLN3S
	100	14.5×40	0.20	740	EKHE451E□□101MU40S
	100	16×35	0.20	740	EKHE451E□□101ML35S
	120	18×31.5	0.20	815	EKHE451E□□121MMN3S

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

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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.
- 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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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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Chemi-Con:

EKHE451ELL560MK35S EKHE451ELL680MK40S EKHE451ELL680MUN3S EKHE451ELL470MK30S

EKHE401ELL820MK40S EKHE401ELL820MUN3S EKHE401ELL330MJ30S EKHE401ELL390MJ35S

EKHE401ELL470MJ40S EKHE401ELL560MK30S EKHE401ELL680MK35S EKHE401ELL101MLN3S

EKHE401ELL121MMN3S