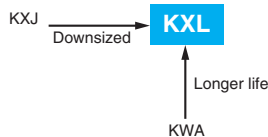


KXL Series

- Ideal for low profile power supply applications
- Downsizing from KXJ series
- Rated voltage range : 400 to 450V_{dc}, Capacitance range : 15 to 150μF
- Endurance with ripple current : 10,000 to 12,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant

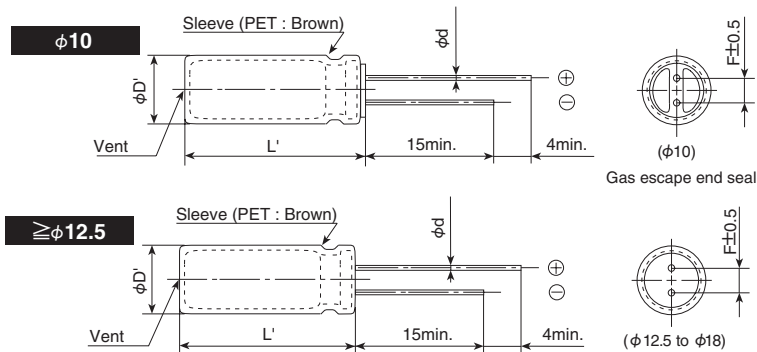


◆ SPECIFICATIONS

Items	Characteristics	
Category	-40 to +105°C	
Temperature Range		
Rated Voltage Range	400 to 450V _{dc}	
Capacitance Tolerance	±20% (M) (at 20°C, 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 (tan δ)	Rated voltage (V _{dc})	400 to 450V
	tan δ (Max.)	0.24 (at 20°C, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	400 to 450V
	Z(-25°C)/Z(+20°C)	6
	Z(-40°C)/Z(+20°C)	10 (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 12,000 hours (10,000 hours for 20L) at 105°C.	
	Capacitance change	≤ ±20% of the initial value
	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 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
	Leakage current	≤500% of the initial specified value

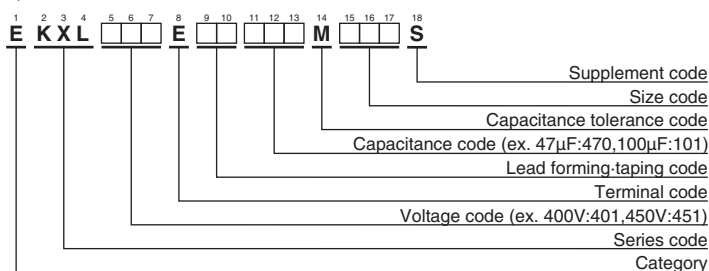
◆ DIMENSIONS [mm]

● 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 (mA _{rms} /105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mA _{rms} /105°C, 120Hz)	Part No.
400	18	10×20	0.24	220	EKXL401E□□180MJ20S	450	15	10×20	0.24	190	EKXL451E□□150MJ20S
	22	10×25	0.24	250	EKXL401E□□220MJ25S		18	10×25	0.24	230	EKXL451E□□180MJ25S
	27	12.5×20	0.24	300	EKXL401E□□270MK20S		27	10×30	0.24	300	EKXL451E□□270MJ30S
	33	10×30	0.24	340	EKXL401E□□330MJ30S		27	12.5×20	0.24	290	EKXL451E□□270MK20S
	39	10×35	0.24	390	EKXL401E□□390MJ35S		33	10×35	0.24	350	EKXL451E□□330MJ35S
	39	12.5×25	0.24	390	EKXL401E□□390MK25S		33	12.5×25	0.24	360	EKXL451E□□330MK25S
	39	14.5×20	0.24	370	EKXL401E□□390MU20S		33	14.5×20	0.24	335	EKXL451E□□330MU20S
	47	10×40	0.24	440	EKXL401E□□470MJ40S		39	10×40	0.24	400	EKXL451E□□390MJ40S
	56	10×45	0.24	500	EKXL401E□□560MJ45S		39	16×20	0.24	400	EKXL451E□□390ML20S
	56	12.5×30	0.24	495	EKXL401E□□560MK30S		47	10×50	0.24	480	EKXL451E□□470MJ50S
	56	14.5×25	0.24	495	EKXL401E□□560MU25S		47	12.5×30	0.24	440	EKXL451E□□470MK30S
	56	16×20	0.24	480	EKXL401E□□560ML20S		47	14.5×25	0.24	450	EKXL451E□□470MU25S
	68	12.5×35	0.24	570	EKXL401E□□680MK35S		56	12.5×35	0.24	500	EKXL451E□□560MK35S
	68	14.5×30	0.24	585	EKXL401E□□680MU30S		56	14.5×30	0.24	540	EKXL451E□□560MU30S
	68	16×25	0.24	570	EKXL401E□□680ML25S		56	16×25	0.24	500	EKXL451E□□560ML25S
	68	18×20	0.24	530	EKXL401E□□680MM20S		56	18×20	0.24	500	EKXL451E□□560MM20S
	82	12.5×40	0.24	650	EKXL401E□□820MK40S		68	12.5×40	0.24	580	EKXL451E□□680MK40S
	82	14.5×35	0.24	670	EKXL401E□□820MU35S		68	14.5×35	0.24	620	EKXL451E□□680MU35S
	100	12.5×50	0.24	760	EKXL401E□□101MK50S		82	12.5×50	0.24	680	EKXL451E□□820MK50S
	100	14.5×40	0.24	760	EKXL401E□□101MU40S		82	14.5×40	0.24	670	EKXL451E□□820MU40S
	100	16×30	0.24	720	EKXL401E□□101ML30S		82	16×30	0.24	650	EKXL451E□□820ML30S
	100	18×25	0.24	710	EKXL401E□□101MM25S		82	18×25	0.24	650	EKXL451E□□820MM25S
	120	14.5×45	0.24	840	EKXL401E□□121MU45S		100	14.5×45	0.24	760	EKXL451E□□101MU45S
	120	16×35	0.24	810	EKXL401E□□121ML35S		100	16×35	0.24	730	EKXL451E□□101ML35S
	120	18×30	0.24	840	EKXL401E□□121MM30S		100	18×30	0.24	750	EKXL451E□□101MM30S
	150	18×35	0.24	930	EKXL401E□□151MM35S		120	18×35	0.24	860	EKXL451E□□121MM35S
420	15	10×20	0.24	195	EKXL421E□□150MJ20S		15	10×20	0.24	195	EKXL421E□□150MJ20S
	22	10×25	0.24	250	EKXL421E□□220MJ25S		22	10×25	0.24	250	EKXL421E□□220MJ25S
	27	10×30	0.24	300	EKXL421E□□270MJ30S		27	10×30	0.24	300	EKXL421E□□270MJ30S
	27	12.5×20	0.24	300	EKXL421E□□270MK20S		27	12.5×20	0.24	300	EKXL421E□□270MK20S
	33	10×35	0.24	350	EKXL421E□□330MJ35S		33	10×35	0.24	350	EKXL421E□□330MJ35S
	33	12.5×25	0.24	350	EKXL421E□□330MK25S		33	12.5×25	0.24	350	EKXL421E□□330MK25S
	33	14.5×20	0.24	350	EKXL421E□□330MU20S		33	14.5×20	0.24	350	EKXL421E□□330MU20S
	39	10×40	0.24	400	EKXL421E□□390MJ40S		39	10×40	0.24	400	EKXL421E□□390MJ40S
	47	10×45	0.24	460	EKXL421E□□470MJ45S		47	10×45	0.24	460	EKXL421E□□470MJ45S
	47	12.5×30	0.24	440	EKXL421E□□470MK30S		47	12.5×30	0.24	440	EKXL421E□□470MK30S
	47	16×20	0.24	430	EKXL421E□□470ML20S		47	16×20	0.24	430	EKXL421E□□470ML20S
	56	10×50	0.24	520	EKXL421E□□560MJ50S		56	10×50	0.24	520	EKXL421E□□560MJ50S
	56	12.5×35	0.24	510	EKXL421E□□560MK35S		56	12.5×35	0.24	510	EKXL421E□□560MK35S
	56	14.5×25	0.24	490	EKXL421E□□560MU25S		56	14.5×25	0.24	490	EKXL421E□□560MU25S
	68	12.5×40	0.24	580	EKXL421E□□680MK40S		68	12.5×40	0.24	580	EKXL421E□□680MK40S
	68	14.5×30	0.24	560	EKXL421E□□680MU30S		68	14.5×30	0.24	560	EKXL421E□□680MU30S
	68	16×25	0.24	560	EKXL421E□□680ML25S		68	16×25	0.24	560	EKXL421E□□680ML25S
	68	18×20	0.24	540	EKXL421E□□680MM20S		68	18×20	0.24	540	EKXL421E□□680MM20S
	82	12.5×45	0.24	660	EKXL421E□□820MK45S		82	12.5×45	0.24	660	EKXL421E□□820MK45S
	82	14.5×35	0.24	660	EKXL421E□□820MU35S		82	14.5×35	0.24	660	EKXL421E□□820MU35S
	82	16×30	0.24	650	EKXL421E□□820ML30S		82	16×30	0.24	650	EKXL421E□□820ML30S
	82	18×25	0.24	640	EKXL421E□□820MM25S		82	18×25			