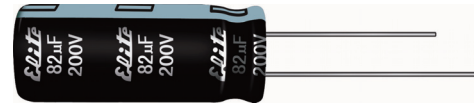


ALUMINUM ELECTROLYTIC CAPACITORS



KJ Series

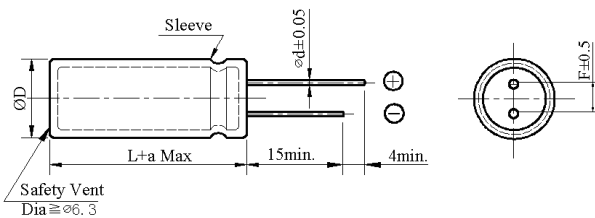


- Downsize and high ripple current
- Load life: 10,000 to 12,000 hours at 105°C
- For electronic ballast circuits and other long life applications

SPECIFICATIONS

Item	Performance Characteristics						
Category Temperature Range	-25 ~ +105°C						
Working Voltage Range	160 ~ 450Vdc						
Capacitance Range	6.8 ~ 560 µF						
Capacitance Tolerance	±20% (at 25°C and 120Hz)						
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>160 ~ 250</td> <td>350 ~ 450</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.20</td> <td>0.24</td> </tr> </table>	Rated Voltage (V)	160 ~ 250	350 ~ 450	tanδ(Max)	0.20	0.24
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tanδ(Max)	0.20	0.24					
Leakage Current	$I = 0.03CV + 10\mu A$ I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 2 minutes.						
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 12,000 (10,000 hours for Φ 10) hours at 105°C.						
	<table border="1"> <tr> <td>Capacitance change</td> <td>≒ ±20% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≒ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≒ specified value</td> </tr> </table>	Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 200% of the specified value	Leakage current	≒ specified value
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Leakage current	≒ 500% of the specified value						
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.						
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Dissipation factor(tanδ)	≒ 200% of the specified value						
Leakage current	≒ 500% of the specified value						
Others	Conforms to JIS-C-5101-4 (1998), characteristic W.						

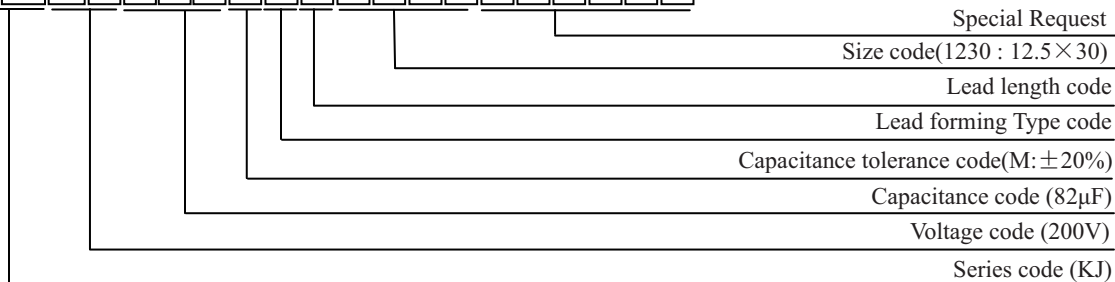
DIMENSIONS (mm)



ΦD	10	12.5 L < 35	12.5 L ≥ 35	16	18
ΦD	ΦD + 0.5 Max				ΦD + 1.0 Max
Φd	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0		7.5	7.5
a	L + 1.5 Max	$\leq 35 L + 1.5 \text{Max}$ $\geq 40 L + 2.0 \text{Max}$		L + 1.5 Max	

PART NUMBERING SYSTEM (Example : 200V 82µF)

K J 2 D 8 2 0 M N N 1 2 3 0





KJ Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

uF \ Vdc	160		200		250	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
10	10×16	150	10×16	150	10×20	160
22	10×20	210	10×20	210	10×20	215
33	10×20	265	10×20	270	10×25	330
47	10×25	330	12.5×20	405	12.5×25	405
68	12.5×20	485	12.5×25	475	16×20	530
82	12.5×25	520	12.5×30	560	16×25	565
100	12.5×30	625	16×20	640	16×30	690
	16×20	640				
150	16×25	785	16×25	855	18×30	875
220	16×30	1040	18×30	1055	18×35.5	1150
330	18×31.5	1400	18×35.5	1440	18×45	1455
470	18×40	1495	18×45	1530		
560	18×45	1535	18×50	1575		

uF \ Vdc	350		400		450	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8	10×16	125	10×16	125	10×20	125
10	10×20	150	10×20	150	12.5×20	190
15	10×20	205	12.5×20	235	12.5×25	255
22	12.5×20	270	12.5×25	275	12.5×30	308
33	16×20	370	16×20	370	16×25	400
					18×20	390
47	16×25	450	16×25	485	18×25	495
			18×20	460		
68	16×30	575	18×25	600	18×31.5	640
82	18×25	630	18×30	630	18×35.5	730
100	18×30	708	18×31.5	770	18×40	835
120	18×31.5	845	18×35.5	875	18×50	920
150	18×40	975	18×45	990		

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(uF)	Frequency (Hz)			
	120	1K	10K	100K
<100	1.00	1.75	2.25	2.50
≥100	1.00	1.67	2.05	2.25