

# KJ Series

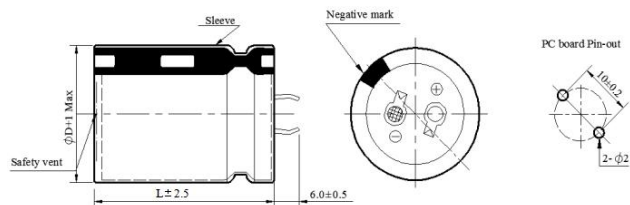
- High reliability. Extremely long life series
- Endurance with ripple current: 10,000 hours at 105°C.

## SPECIFICATIONS

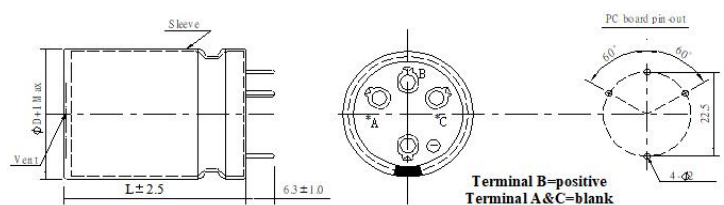
Item	Performance Characteristics								
Category Temperature Range	-25~ +105°C								
Working Voltage Range	200~550Vdc								
Capacitance Range	47~2,200μF								
Capacitance Tolerance	±20% (at 20°C and 120Hz)								
Dissipation Factor (tan δ) (at 20°C, 120Hz)	Rated Voltage (V)	200	220	250	400	450	500	550	
	tan δ (Max)	0.15	0.15	0.15	0.15	0.20	0.20	0.20	
The above values should be increased by 0.02 for every additional 1000μF									
Leakage Current	$I \leq 3 \sqrt{CV}$								
	I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Apply rated voltage the rated voltage for 5 minutes.								
Low Temperature Characteristics Impedance Ratio(MAX)	Rated Voltage (V)	200~250	350	400	420 ~ 450	500~550	(at 120Hz)		
	Z(-25°C)/Z(+20°C)	4	4	4	8	8			
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 for 10,000 hours at 105°C.								
	Capacitance change	≒ ±20% of the initial value							
	Dissipation factor(tan δ)	≒ 200% of the specified value							
	Leakage current	≒ specified value							
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.								
	Capacitance change	≒ ±20% of the initial value							
	Dissipation factor(tan δ)	≒ 200% of the specified value							
	Leakage current	≒ 200% of the specified value							
Others	Conforms to JIS-C-5101-4 (1998) and IEC 60384-4								

## DIMENSIONS(mm)

Terminal Code :S2

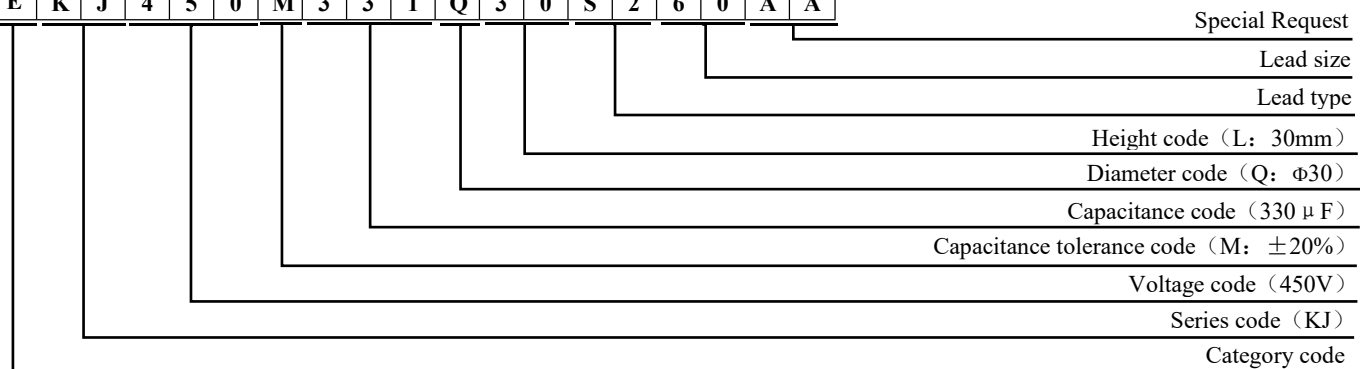


Terminal Code :S4



## PART NUMBER SYSTEM(Example : 450V 330μF)

E K J 4 5 0 M 3 3 1 Q 3 0 S 2 6 0 A A



**KJ Series**

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

uF	Vdc		200								uF	Vdc		250							
	ΦD	ΦD	Φ 22		Φ 25		Φ30		Φ35			ΦD	ΦD	Φ 22		Φ 25		Φ30		Φ35	
			ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC				ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
180	22×20	780								180	22×25	920									
220	22×25	800								220	22×25	1120									
270	22×25	1150	25×25	1150						270	22×25	1340	25×25	1340							
330	22×30	1310	25×30	1310						330	22×30	1400	25×25	1460							
390	22×30	1420	25×25	1450	30×25	1550				390	22×35	1520	25×30	1550	30×30	1620					
470	22×30	1480	25×25	1550	30×25	1680	35×25	1780		470	22×40	1780	25×30	1740	30×30	1740					
560	22×35	1550	25×40	1580	30×30	1600	35×25	2080		560	22×45	1975	25×40	1860	30×35	1850	35×30	1950			
680	22×40	1890	25×40	1980	30×35	2080	35×30	2168		680	22×50	2134	25×45	1950	30×35	2020	35×30	2180			
820	22×50	2226	25×40	2350	30×35	2350	35×30	2250		820			25×50	2049	30×45	2000	35×35	1930			
1000	22×60	2880	25×45	2545	30×40	2400	35×35	2300		1000			25×55	2245	30×45	2350	35×35	2330			
1200			25×50	2680	30×50	2530	35×40	2650		1200					30×45	2450	35×40	2650			
1500					30×50	2630	35×45	3080		1500					30×50	2680	35×50	2960			
1800					30×50	2875	35×50	3120		1800							35×50	3260			
2200										2200							35×50	3575			

uF	Vdc		315								uF	Vdc		350							
	ΦD	ΦD	Φ 22		Φ 25		Φ30		Φ35			ΦD	ΦD	Φ 22		Φ 25		Φ30		Φ35	
			ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC				ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
120	22×25	750								100	22×25	760	25×25	860							
150	22×25	1000			30×25	1050				120	22×30	850	25×25	950							
180	22×30	1150	25×30	1210						150	22×30	960	25×25	1045							
220	22×35	1220	25×30	1280						180	22×35	1150	25×30	1140							
270	22×40	1350	25×35	1350						220	22×40	1210	25×30	1250	30×25	1280	35×25	1350			
330	22×45	1400	25×35	1450	30×25	1200				270	22×45	1380	25×35	1390	30×25	1370	35×25	1420			
390	22×50	1540	25×40	1530	30×30	1430				330	22×50	1560	25×40	1500	30×30	1460	35×30	1530			
470	22×50	1630	25×40	1610	30×35	1650	35×30	1700		390	22×55	1690	25×40	1620	30×35	1500	35×35	1640			
560	22×60	1898	25×50	1880	30×40	1900	35×30	1900		470			25×50	1740	30×35	1640	35×35	1810			
680			25×55	2050	30×45	1970	35×35	2000		560			25×55	1860	30×45	1780	35×40	2070			
820					30×50	2120	35×40	2150		680					30×45	1920	35×40	2310			
1000					30×55	2345	35×50	2380		820					30×55	2165	35×45	2500			
1200					30×60	2545	35×50	2700		1000							35×50	2680			
										1200							35×60	2780			

uF	Vdc		400								uF	Vdc		450							
	ΦD	ΦD	Φ 22		Φ 25		Φ30		Φ35			ΦD	ΦD	Φ 22		Φ 25		Φ30		Φ35	
			ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC				ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
68	22×25	460								68	22×25	490									
82	22×25	650								82	22×25	580									
100	22×25	680	25×25	680						100	22×25	690									
120	22×25	730	25×25	760						120	22×30	770	25×30	830							
150	22×30	860	25×25	860						150	22×35	880	25×30	880	30×25	880					
180	22×35	960	25×30	950	30×25	970				180	22×40	900	25×35	920	30×25	1030	35×25	1050			
220	22×45	1120	25×35	1080	30×30	1140				220	22×45	980	25×35	1000	30×30	1170	35×25	1200			
270	22×50	1260	25×40	1230	30×30	1310	35×25	1380		270	22×55	1060	25×45	1090	30×30	1340	35×30	1330			
330	22×55	1450	25×45	1380	30×35	1480	35×30	1480		330			25×50	1200	30×40	1510	35×30	1390			
390			25×50	1560	30×40	1500	35×35	1630		390			25×50	1490	30×45	1650	35×35	1710			
470					30×45	1670	35×40	1850		470					30×50	1790	35×40	1930			
560							35×40	2070		560					30×50	2040	35×45	2160			
680							35×45	2222		680							35×50	2290			
820							35×55	2510		820							35×65	2800			
1000							35×65	2808		1000							35×70	3030			
1200							35×75	3112													

**KJ Series**

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

uF	500								uF	550							
	Φ 22		Φ 25		Φ 30		Φ 35			Φ 22		Φ 25		Φ 30		Φ 35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
47	22×25	460															
56	22×25	550	25×25	630													
68	22×30	630	25×25	730													
82	22×35	730	25×25	820													
100	22×40	820	25×35	820	30×30	820											
120	22×45	960	25×40	950	30×35	970	35×30	980									
150	22×50	1120	25×45	1080	30×35	1140	35×30	1180	220							35×40	1200
180			25×50	1230	30×35	1310	35×30	1380	270							35×50	1330
220			25×50	1380	30×45	1480	35×30	1480	330							35×55	1630
270					30×50	1500	35×35	1670	390							35×60	1710
330							35×40	1840	470							35×70	1930
390							35×50	2110									
560							35×65	2238									

◆ **RIPPLE CURRENT MULTIPLIERS**

**Frequency Multipliers**

Vdc	Frequency (Hz)				
	50/60	120	1K	10K	100K
200 ~ 250	0.80	1.00	1.20	1.30	1.40
400 ~ 500	0.80	1.00	1.10	1.12	1.15