

# PK series

- Endurance: +135°C 1,000 hours
- High Temperature Resistance
- Recommended Applications: Large LED lamp power supply
- RoHS Compliant and lead-free

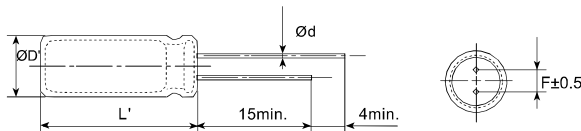


## SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-55~+135°C							
Rated Working Voltage Range	6.3~25 V <sub>dc</sub>							
Nominal Capacitance Range	100~1500μF							
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)							
DC Leakage Current	I ≤ 0.2CV or 500μA, whichever is greater. Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)							
Dissipation Factor (tanδ)	Rated Voltage(V <sub>dc</sub> )	6.3	6.8	7.5	10	16	20	25
	tanδ (max.)	0.08			0.12			
ESR(100kHz, 20°C)	Value in characteristics table							
Temperature Characteristic (Impedance Ratio at 100kHz)	Z(+135°C)/Z(+20°C) ≤ 1.25 Z(-55°C)/Z(+20°C) ≤ 1.25							
Endurance	After applying rated voltage for 1,000 hours at 135°C, the capacitors shall meet the following requirements.							
	Appearance	No significant damage						
	Capacitance Change	≤ ±20% of the initial value						
	D. F. (tanδ)	≤ 150% of the initial specified value						
	ESR	≤ 150% of the initial specified value						
	Leakage Current	≤ The initial specified value						
Humidity Test	After subjecting to 90~95% RH for 1,000 hours at 60°C without voltage applied, the capacitors shall meet the specified values for the Endurance characteristics listed above.							
Surge Test	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.							
	Appearance	No significant damage						
	Capacitance Change	≤ ±20% of the initial value						
	D. F. (tanδ)	≤ 150% of the initial specified value						
	ESR	≤ 150% of the initial specified value						
	Leakage Current	≤ The initial specified value						

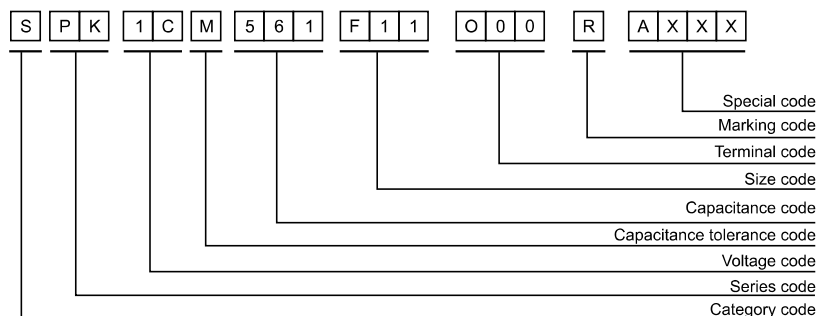
Conductive Polymer Radial Type

## DIMENSIONS [mm]



øD	5	5.5	6.3	8	10
ød	0.5	0.5	0.5	0.6	0.6
F	2.0	2.5	2.5	3.5	5.0
øD'	øD-0.1~+0.5				
L'	L+1.0max.			L-0.5~+1	

## PART NUMBERING SYSTEM



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■ STANDARD RATINGS

VDC (SV)	Cap (μF)	Size ΦD×L(mm)	ESR (mΩ, 20°C, 100kHz) (max.)	Rated ripple current (mA rms/135°C, 100kHz)	Leakage Current (μA)(max.)	Part Number
6.3 (7.2)	330	6.3×8	22	400	500	SPK0JM331E08O00RAXXX
	470	6.3×8	22	400	592	SPK0JM471E08O00RAXXX
	560	6.3×8	30	400	706	SPK0JM561E08O00RAXXX
	680	8×9	30	400	857	SPK0JM681F09O00RAXXX
	820	8×11	15	500	1033	SPK0JM821F11O00RAXXX
	1000	8×11	15	500	1260	SPK0JM102F11O00RAXXX
	1200	8×11	15	500	1512	SPK0JM122F11O00RAXXX
	1500	10×12	15	500	1890	SPK0JM152G12O00RAXXX
6.8 (7.8)	220	6.3×8	30	300	500	SPK0CM221E08O00RAXXX
	270	6.3×8	30	400	500	SPK0CM271E08O00RAXXX
	330	6.3×7	30	300	500	SPK0CM331E07O00RAXXX
	470	6.3×7	30	300	639	SPK0CM471E07O00RAXXX
	560	6.3×8	30	400	762	SPK0CM561E08O00RAXXX
	1000	8×11	20	500	1360	SPK0CM102F11O00RAXXX
7 (8.1)	470	6.3×7	30	300	658	SPK0QM471E07O00RAXXX
	560	6.3×8	30	400	784	SPK0QM561E08O00RAXXX
7.5 (8.6)	330	6.3×7	30	300	500	SPK0AM331E07O00RAXXX
	470	6.3×7	40	300	705	SPK0AM471E07O00RAXXX
	560	8×9	30	400	840	SPK0AM561F09O00RAXXX
	680	8×9	30	400	1020	SPK0AM681F09O00RAXXX
	1000	8×11	20	400	1500	SPK0AM102F11O00RAXXX
	10 (11.5)	180	6.3×7	30	200	500
220		6.3×8	22	300	500	SPK1AM221E08O00RAXXX
270		6.3×8	30	300	540	SPK1AM271E08O00RAXXX
330		6.3×10	18	300	660	SPK1AM331E10O00RAXXX
470		8×11	18	500	940	SPK1AM471F11O00RAXXX
680		8×11	18	300	1360	SPK1AM681F11O00RAXXX
1000		10×12	15	500	2000	SPK1AM102G12O00RAXXX
1200		10×12	15	500	2400	SPK1AM122G12O00RAXXX
16 (18.4)		100	6.3×8	30	200	500
	470	8×11	22	400	1504	SPK1CM471F11O00RAXXX
	560	10×12	18	300	1792	SPK1CM561G12O00RAXXX
	680	10×12	18	300	2176	SPK1CM681G12O00RAXXX
20 (23.0)	180	10×12	30	300	720	SPK1DM181G12O00RAXXX
	270	8×11	30	300	1080	SPK1DM271F11O00RAXXX
25(28.8)	270	8×11	30	300	1350	SPK1EM271F11O00RAXXX

※ Specifications subject to change without notice.