



CRC NEW ENERGY

APPROVAL SHEET

TO: DC-Link 薄膜电容 15uF ± 10% 800V

Main Materials		MARKING & OUTLINE DRAWING
Construction	Materials	
Dielectric	Metallized Polypropylene Film	
Terminal	Tinned copper wire	
Filling	Flame-retardant epoxy resin , white	
Case	Flame-retardant plastic case, black	

Part No.	TYPE	Dimensions (mm)							NOTE
		W	H	T	P	P1	L	ΦD	
FC6069	MKP-FC 15μFK800VDC	57.5	33	30	52.5	22.5	6	1.2	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					田星月
DATE			DATE	2016-06-29	

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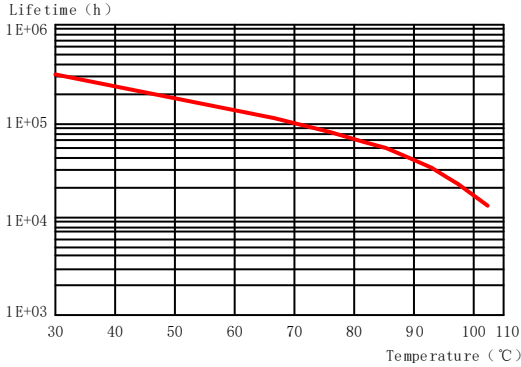
CRC-BDE-08

Technical Data

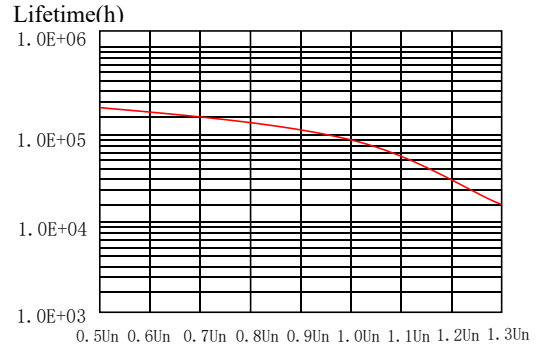
Items	Symbols	Values					
Rated capacitance	C_N	$15\mu\text{F} \pm 10\%$					
Rated voltage	U_N	800V.DC					
Non-recurrent surge voltage	U_s	1250V.DC					
Maximum current	I_{rms}	12A					
Maximum peak current	\hat{I}	300A					
Maximum surge current	I_s	900A					
Series resistance	R_s	$\leq 6\text{m}\Omega$					
Tangent of the loss	$\tan \delta$	≤ 0.0015 (1KHz)					
Insulation Resistance	$C \times R_{is}$	$\geq 5000\text{s}$					
Self inductance	L_e	$\leq 20\text{nH}$					
Lowest operating temperature	Θ_{min}	-40°C					
Maximum operating temperature	Θ_{max}	105°C					
Operating humidity	RH	0~95%					
Storage temperature range	$\Theta_{storage}$	$-40^\circ\text{C} \sim 85^\circ\text{C}$					
Service life		100000h					
At $\Theta_{hotspot}$		$\leq 70^\circ\text{C}$					
Failure quota		$< 100\text{Fit}$					
Test data							
Voltage test between terminals	V_{t-t}	1200V.DC/10s					
	过电压	<table border="1"> <tr> <td>1.1 UN (30% of on-load-dur.)</td> </tr> <tr> <td>1.15 UN (30min/day)</td> </tr> <tr> <td>1.2 UN (5min/day)</td> </tr> <tr> <td>1.3 UN (1min/day)</td> </tr> <tr> <td>1.5 UN (30ms every time, 1 000times during the life of the capacitor)</td> </tr> </table>	1.1 UN (30% of on-load-dur.)	1.15 UN (30min/day)	1.2 UN (5min/day)	1.3 UN (1min/day)	1.5 UN (30ms every time, 1 000times during the life of the capacitor)
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1.3 UN (1min/day)							
1.5 UN (30ms every time, 1 000times during the life of the capacitor)							
Operating altitude		2000m (max)					
Terminal tightening torque		—					
Bottom tightening torque		—					
Weight		85g					

Electrical Characteristics of Film Capacitor

1. Lifetime Expectancy

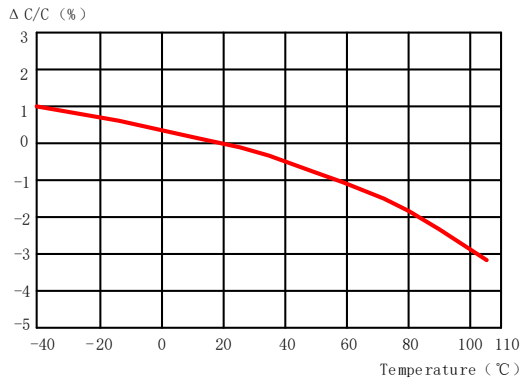


Lifetime expectancy vs. Charging temperature

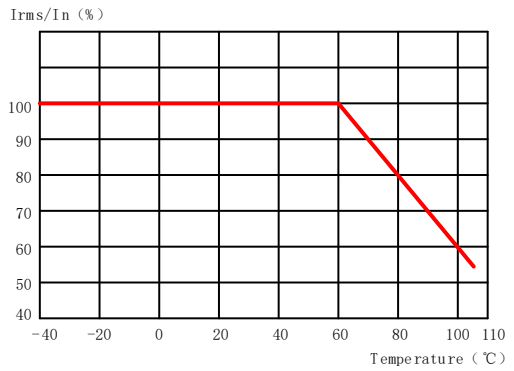


Lifetime expectancy vs. Charging voltage

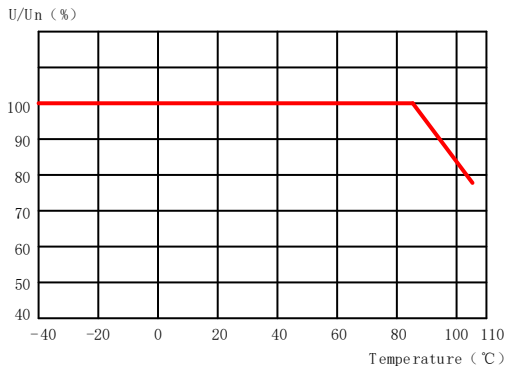
2. Temperature Characteristics



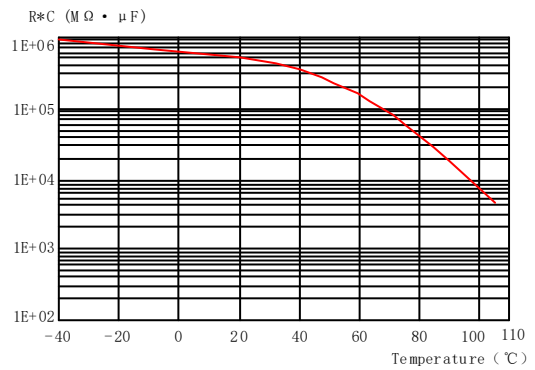
Capacitance change rate vs. Temperature



Operating current vs. Temperature

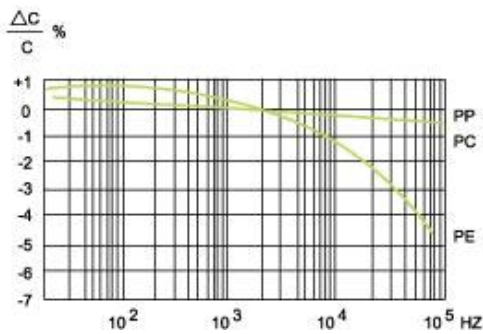


Operating voltage vs. Temperature

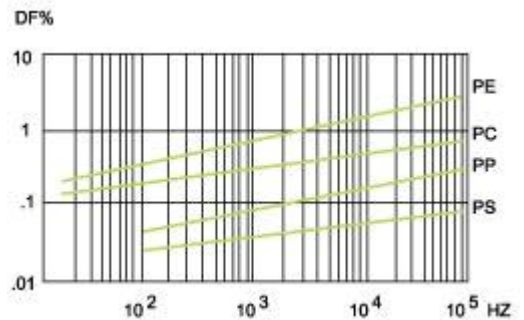


Insulation Resistance vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency

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