



CRC NEW ENERGY

APPROVAL SHEET

TO: 直流支撑电容 30 μ F \pm 10% 1100V

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, grey	

Part No.	TYPE	Dimensions (mm)							NOTE
		W	H	T	P	P1	L	Φ D	
FC6015	MKP-FC 30 μ FK1100VDC	57.5	45	30	52.5	20.3	6	1.2	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					田星月
DATE			DATE	2019-06-19	

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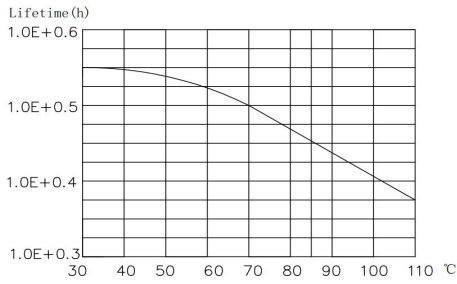
CRC-BDE-08

Technical Data

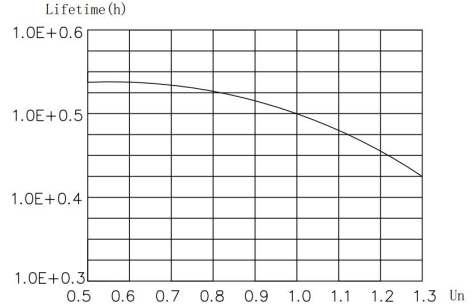
Items	Symbols	Values						
Rated capacitance	C_N	$30\mu\text{F} \pm 10\%$						
Rated voltage	U_N	1100V.DC						
Non-recurrent surge voltage	U_s	1750V.DC						
Maximum current	I_{rms}	20A						
Maximum peak current	\hat{I}	900A						
Maximum surge current	I_s	2700A						
Series resistance	R_s	$\leq 4.2\text{m}\Omega$						
Tangent of the loss	$\tan \delta$	$\leq 0.0015(100\text{Hz})$						
Insulation Resistance	$C \times R_{is}$	$\geq 5000\text{S}$						
Self inductance	L_e	$\leq 35\text{nH}$						
Lowest operating temperature	Θ_{min}	-40°C						
Maximum operating temperature	Θ_{max}	105°C						
Operating humidity	RH	0~95%						
Service life		100000h						
Failure quota		$< 100\text{Fit}$						
Test data								
Voltage test between terminals	V_{tt}	1650V.DC/10S						
<table border="1" style="margin: auto;"> <tr> <td rowspan="5" style="vertical-align: middle;">过电压</td> <td>1.1 U_N (30% of on-load-dur.)</td> </tr> <tr> <td>1.15 U_N (30min/day)</td> </tr> <tr> <td>1.2 U_N (5min/day)</td> </tr> <tr> <td>1.3 U_N (1min/day)</td> </tr> <tr> <td>1.5 U_N (30ms every time, 1 000times during the life of the capacitor)</td> </tr> </table>			过电压	1.1 U_N (30% of on-load-dur.)	1.15 U_N (30min/day)	1.2 U_N (5min/day)	1.3 U_N (1min/day)	1.5 U_N (30ms every time, 1 000times during the life of the capacitor)
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	1.5 U_N (30ms every time, 1 000times during the life of the capacitor)							
Operating altitude		2000m (max)						
Terminal tightening torque		—						
Bottom tightening torque		—						
Weight		—						

ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

1. Lifetime Expectancy

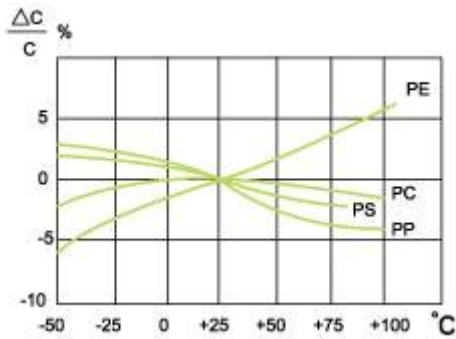


Lifetime expectancy vs. Charging temperature

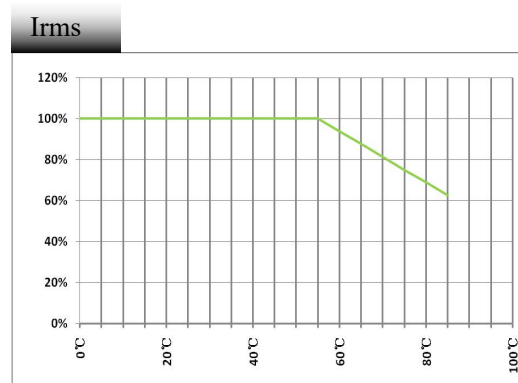


Lifetime expectancy vs. Charging voltage

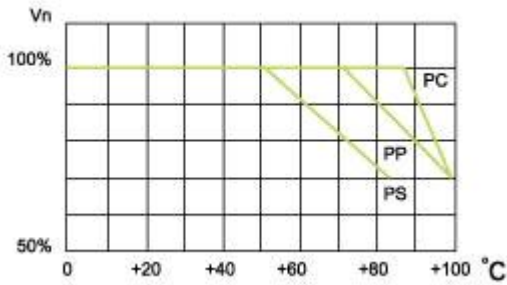
2. Temperature Characteristics



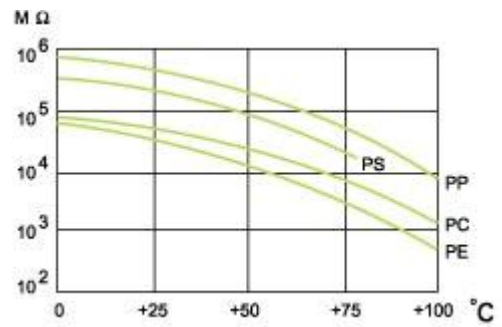
Capacitance change rate vs. Temperature



Operating current vs. Temperature

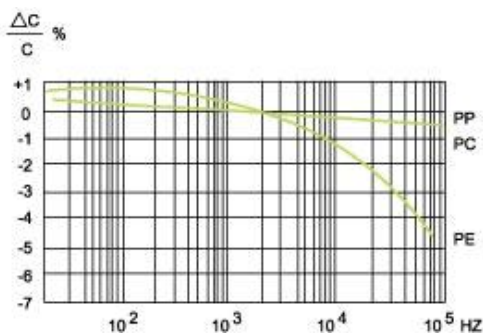


Operating voltage vs. Temperature

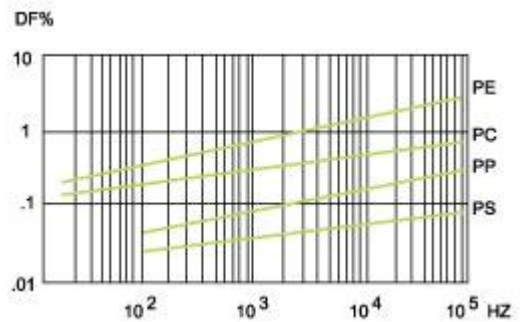


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency