



CRC NEW

ENERGY

APPROVAL SHEET

TO: 直流支撑电容 40uF ± 5% 1100V

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

Part No.	TYPE	Dimensions (mm)								NOTE
		W	H	T	P	P1	L	ΦD		
FC6010	MKP-FC 40µF J 1100VDC	57.5	50	35	52.5	20.3	6	1.2		
040.70003.20										

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					田星月
DATE			DATE	2019-01-14	

SHENZHEN CRC NEW ENERGY CO., LTD

6th and 7th Floor R&D Building, Yanchuan North Industrial Park,

Songgang Town, Baoan District, Shenzhen, China

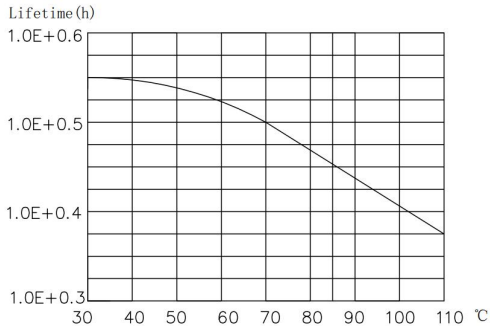
TEL: +86 - 0755 - 29948883 / 29948998 FAX: +86 - 0755 - 29948906 <http://www.csdcap.com>

Technical Data

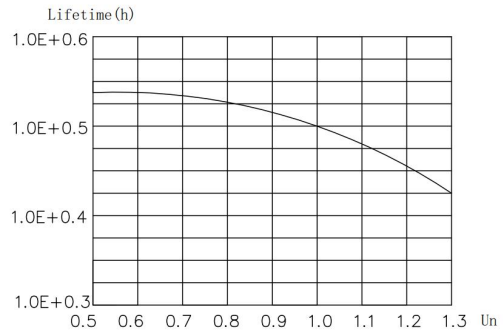
Items	Symbols	Values						
Rated capacitance	C_N	$40\mu\text{F} \pm 5\%$ 1KHz/25°C						
Rated voltage	U_N	1100V.DC						
Non-recurrent surge voltage	U_s	1700V.DC						
Maximum current	I_{rms}	20A						
Maximum peak current	\hat{i}	400A						
Maximum surge current	I_s	1200A						
Series resistance	R_s	$\leq 3.1\text{m}\Omega$ 1KHz/25°C						
Tangent of the loss	$\tan \delta$	≤ 0.0015 1KHz/25°C						
Insulation Resistance	$C \times R_{is}$	$\geq 5000\text{S}$ 100V.DC/60S						
Self inductance	L_e	$\leq 40\text{nH}$ 1KHz/25°C						
Lowest operating temperature	Θ_{min}	-40°C						
Maximum operating temperature	Θ_{max}	105°C						
Operating humidity	RH	0~95%						
Service life		100000h/70°C/ U_N						
At $\Theta_{hotspot}$		$\leq 105^\circ\text{C}$						
Failure quota		<100Fit						
Flame retardant grade		UL94-V0						
Test data								
Voltage test between terminals	V_{tt}	1650V.DC/10S						
<table border="1"> <tr> <td rowspan="5">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)
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)							
Operating altitude		2000m (max) 3000 m:0.85 U_N						
With reference to the standard	GB/T 17702-2013	IEC61071:2007						

ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

1. Lifetime Expectancy

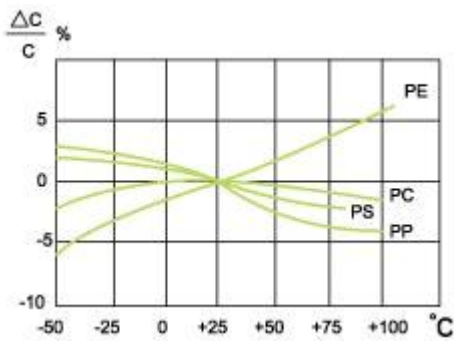


Lifetime expectancy vs. Charging temperature

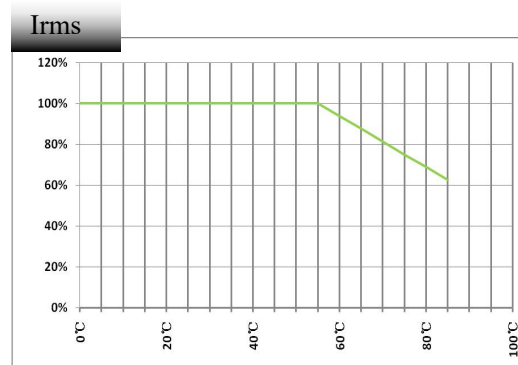


Lifetime expectancy vs. Charging voltage

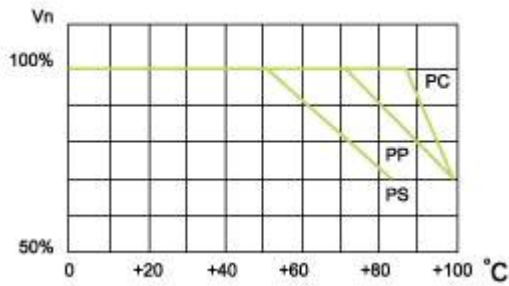
2. Temperature Characteristics



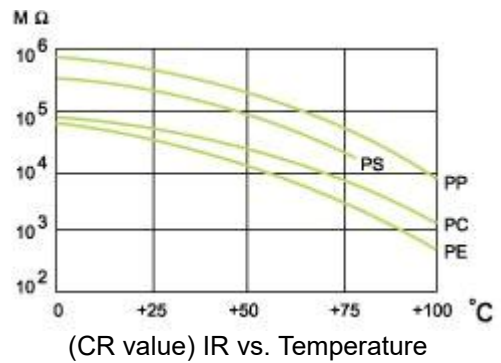
Capacitance change rate vs. Temperature



Operating current vs. Temperature

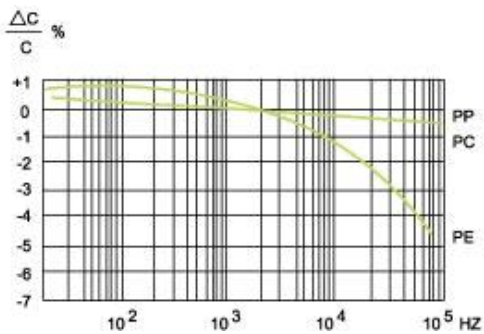


Operating voltage vs. Temperature

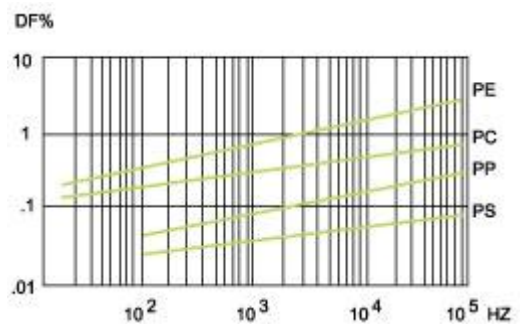


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency