



CRC NEW ENERGY

APPROVAL SHEET

TO: 直流支撑电容 6uF ± 10% 1000V

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

Part No.	TYPE	Dimensions (mm)							NOTE
		W	H	T	P	P1	L	ΦD	
HFC5006	MKP-FC605K1000V	32	33	18	27.5	10	6	0.8	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
				袁朝晖	李宛秋
DATE			DATE	2023-06-10	

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>

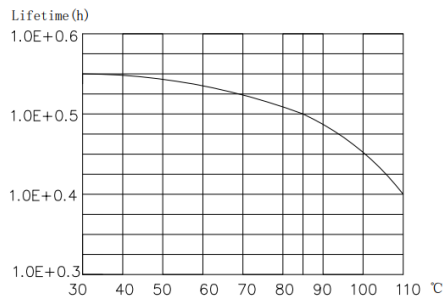
CRC-BDE-08

Technical Data

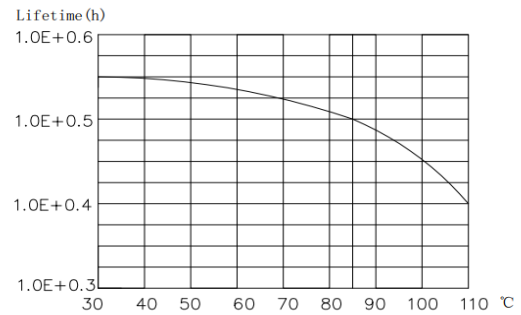
Items	Symbols	Values
Rated capacitance	C _N	6μF±10%
Rated voltage	U _N	1000V.DC
Non-recurrent surge voltage	U _s	1500V.DC
Maximum current	I _{rms}	12A
Maximum peak current	Î	480A
Maximum surge current	I _S	1440A
Series resistance	R _S	≤6.9mΩ
Tangent of the loss	tanδ	≤0.0015(100Hz)
Insulation Resistance	C×R _{is}	≥5000S
Self inductance	L _e	≤37.5nH
Lowest operating temperature	Θmin	-40℃
Maximum operating temperature	Θmax	105℃
Operating humidity	RH	0~95%
Storage temperature	Θstorage	-40℃~105℃
Service life		100000h
At Θhotspot		≤105℃
Failure quota		<100Fit
Test data		
Voltage test between terminals	V _{tt}	1500V.DC/10S
过电压	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)	
Operating altitude		2000m（max）
Terminal tightening torque		—
Bottom tightening torque		—
Weight		—

Electrical Characteristics of Film Capacitor

1. Lifetime Expectancy

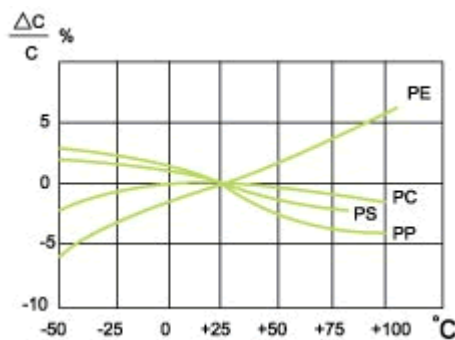


Life time Expectancy of charge temperature

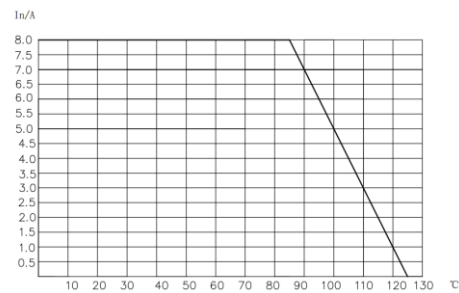


Life time Expectancy of charge voltage

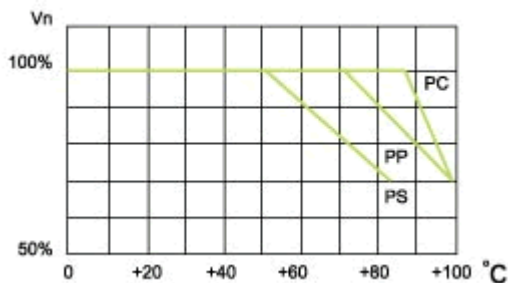
2. Temperature Characteristics



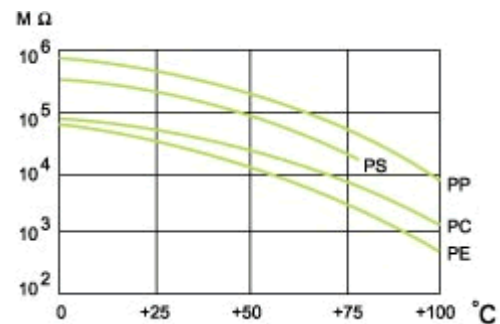
Capacitance vs. Temperature



Operation current vs. Temperature

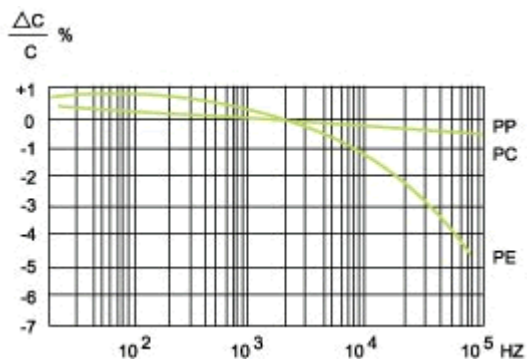


Operation voltage vs. Temperature

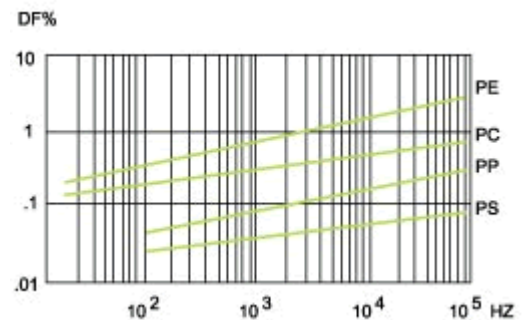


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance vs. Frequency



Dissipation Factor vs. Frequency