



CRC NEW ENERGY

# APPROVAL SHEET

TO: 缓冲吸收薄膜电容 470nF 1200V

MAIN MATERIALS		MARKING & OUTLINE DRAWING	
Construction	Materials		
Dielectric	Metallized Polypropylene Film		
Terminal	Tinned Copper Wire		
Filling	Flame-retardant epoxy resin, white		
Case	Mylar tape		

PART NO.	TYPE	DIMENSIONS (mm)				NOTE
		W	D	L	d	
HA4037	MKP-HA 0.47 $\mu$ FK 1200V.DC	44	19	40	1.2	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
				袁朝晖	闫佳佳
DATE			DATE	2020-08-05	

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>

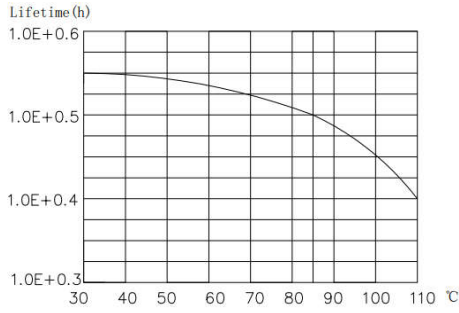
CRC-BDE-08

# Technical Data

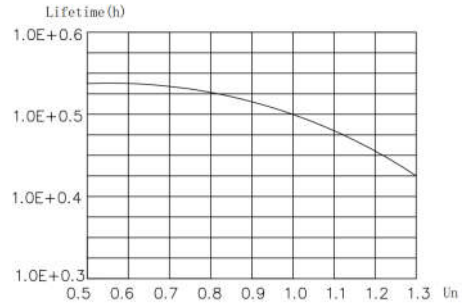
Items	Symbols	Values					
Rated capacitance	$C_N$	0.47 $\mu$ F $\pm$ 10%					
Rated voltage	$U_N$	1200V.DC					
Non-recurrent surge voltage	$U_s$	1950V.DC					
Maximum current	$I_{rms}$	8A					
Maximum peak current	$\hat{I}$	470A					
Maximum surge current	$I_s$	1410A					
Series resistance	$R_S$	$\leq$ 80m $\Omega$					
Tangent of the loss	$\tan\delta$	$\leq$ 0.0015(1KHz)					
Insulation Resistance	$C \times R_{is}$	$\geq$ 5000S					
Self-inductance	$L_e$	$\leq$ 30nH					
Lowest operating temperature	$\Theta_{min}$	-40 $^{\circ}$ C					
Maximum operating temperature	$\Theta_{max}$	105 $^{\circ}$ C					
Storage temperature	$\Theta_{storage}$	-40 $^{\circ}$ C~105 $^{\circ}$ C					
Operating humidity	RH	0~95%					
Service life		100000h					
Failure quota		<100Fit					
<b>Test Data</b>							
Voltage test between terminals	$V_{tt}$	1800V.DC/10S					
	过电压	<table border="1"> <tbody> <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> </tbody> </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		-----					

# ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

## 1. Lifetime Expectancy

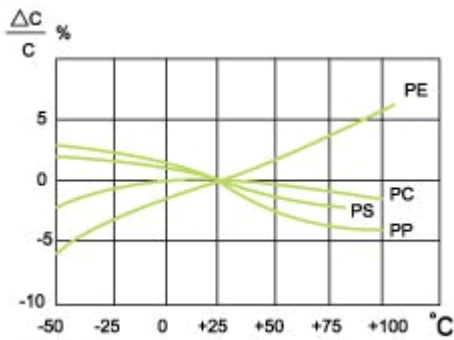


Lifetime expectancy vs. Charging temperature

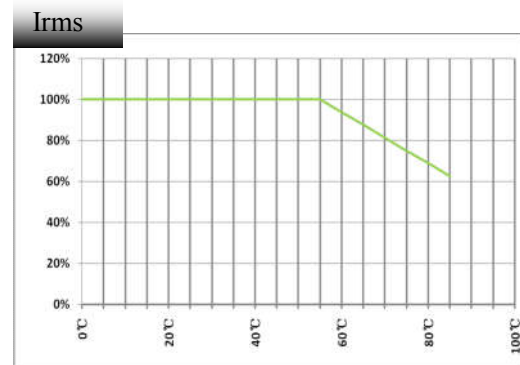


Lifetime expectancy vs. Charging voltage

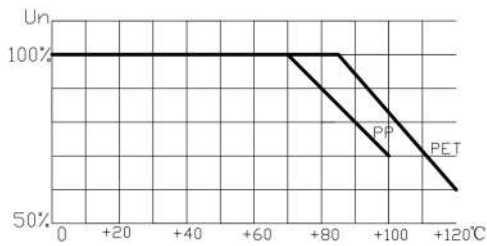
## 2. Temperature Characteristics



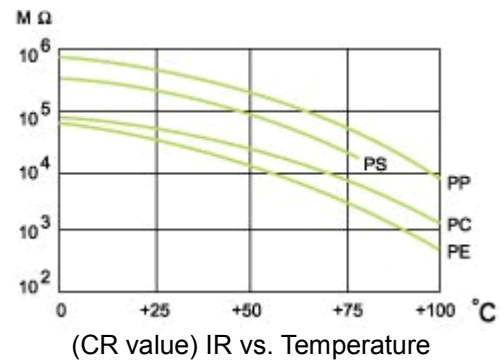
Capacitance change rate vs. Temperature



Operating current vs. Temperature

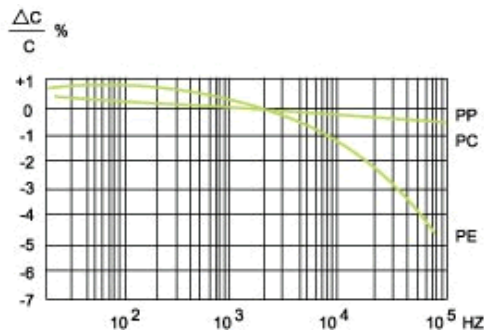


Operating voltage vs. Temperature

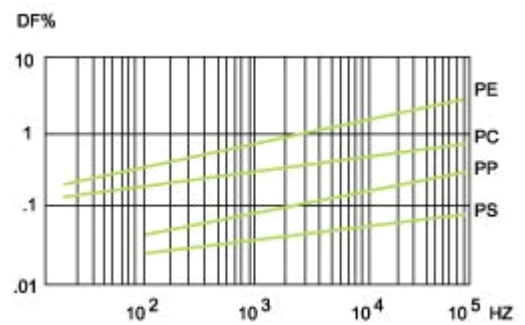


(CR value) IR vs. Temperature

## 3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency

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