



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 μ 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	

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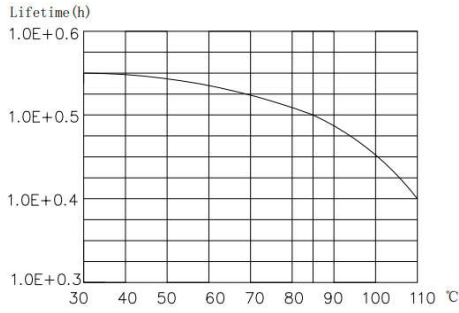
CRC-BDE-08

Technical Data

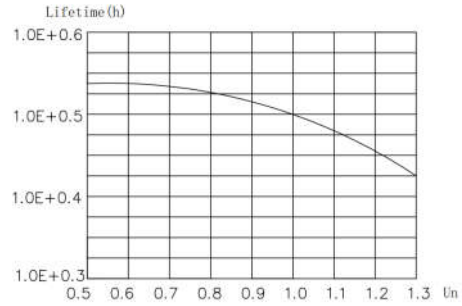
Items	Symbols	Values					
Rated capacitance	C_N	0.47 μ F \pm 10%					
Rated voltage	U_N	1200V.DC					
Non-recurrent surge voltage	U_s	1950V.DC					
Maximum current	I_{rms}	8A					
Maximum peak current	\hat{I}	470A					
Maximum surge current	I_s	1410A					
Series resistance	R_S	\leq 80m Ω					
Tangent 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	Θ_{min}	-40 $^{\circ}$ C					
Maximum operating temperature	Θ_{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					
Test Data							
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

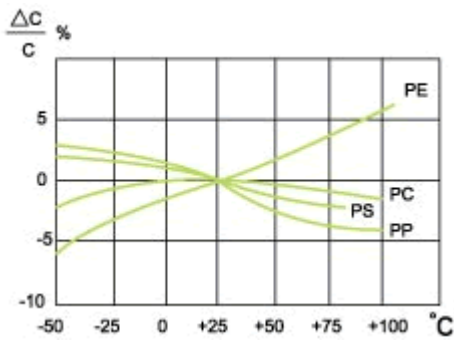


Lifetime expectancy vs. Charging temperature

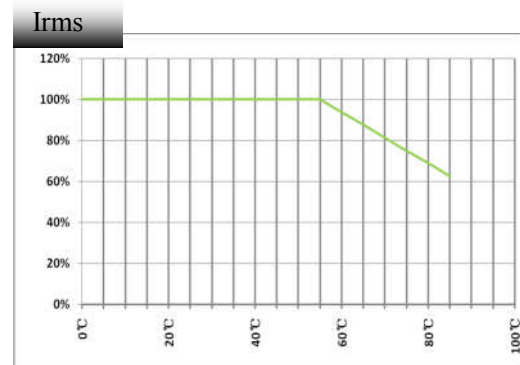


Lifetime expectancy vs. Charging voltage

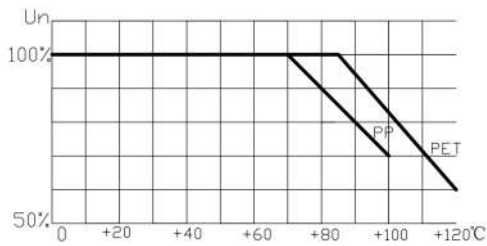
2. Temperature Characteristics



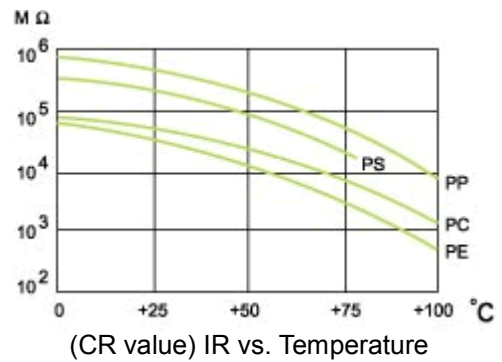
Capacitance change rate vs. Temperature



Operating current vs. Temperature

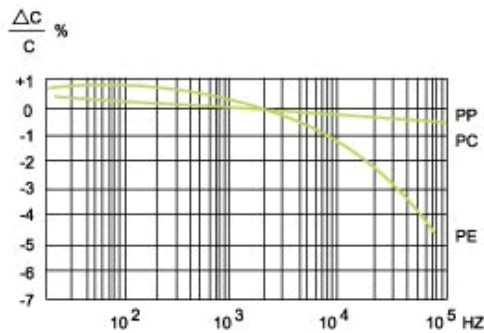


Operating voltage vs. Temperature

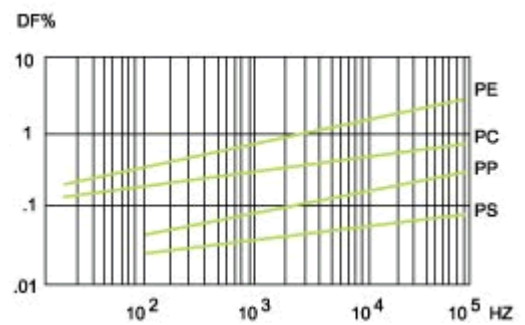


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency