



CRC NEW ENERGY

# APPROVAL SHEET

TO: 交流滤波薄膜电容 4.7uF ± 5% 330VAC

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

Part No.	TYPE	Dimensions (mm)						NOTE
		W	H	T	P	L	ΦD	
AC5028	MKP-AC475J330VAC	32	37	22	27.5	4	1.2	

CUSTOMER CONFIRMATION			CR OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					闫佳佳
DATE			DATE	2020-07-16	

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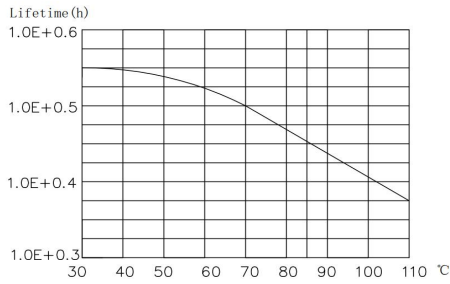
CRC-BDE-08

# Technical Data

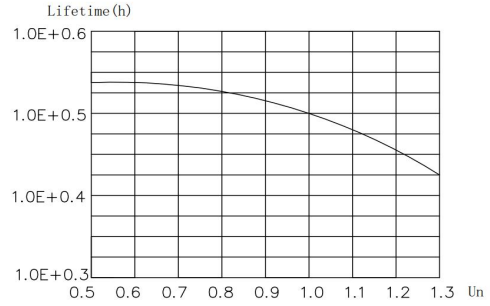
Items	Symbols	Values						
Rated capacitance	$C_N$	$4.7\mu F \pm 5\%$						
Rated voltage	$U_N$	330V.AC						
Non-recurrent surge voltage	$U_s$	700V.AC						
Maximum current	$I_{rms}$	8A						
Maximum peak current	$\hat{I}$	250A						
Maximum surge current	$I_s$	750A						
Series resistance	$R_s$	$\leq 7.6m\Omega$						
Tangent of the loss	$\tan \delta$	$\leq 0.0020$ (1KHZ)						
Insulation Resistance	$C \times R_{is}$	$\geq 5000S$						
Self inductance	$L_e$	$\leq 35nH$						
Lowest operating temperature	$\Theta_{min}$	$-40^\circ C$						
Maximum operating temperature	$\Theta_{max}$	$105^\circ C$						
Operating humidity	RH	0~95%						
Service life		100000h						
Failure quota		$< 100fit$						
<b>Test data</b>								
Voltage test between terminals	$V_{tt}$	950V.DC/10S						
<table border="1"> <tr> <td rowspan="5">过电压</td> <td>1.1 <math>U_N</math> (30% of on-load-dur.)</td> </tr> <tr> <td>1.15 <math>U_N</math> (30min/day)</td> </tr> <tr> <td>1.2 <math>U_N</math> (5min/day)</td> </tr> <tr> <td>1.3 <math>U_N</math> (1min/day)</td> </tr> <tr> <td>1.5 <math>U_N</math> (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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Operating altitude		2000m (max)						
Terminal tightening torque		—						
Bottom tightening torque		—						
Weight		—						

# Electrical Characteristics of Film Capacitor

## 1. Lifetime Expectancy

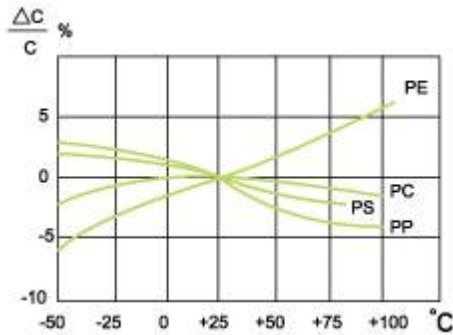


Lifetime expectancy vs. Charging temperature

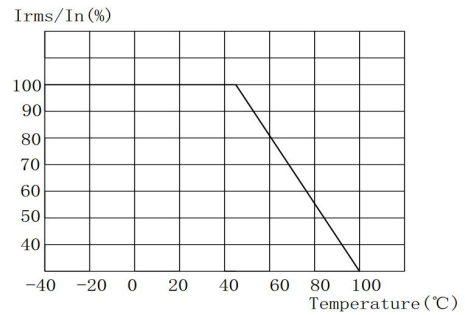


Lifetime expectancy vs. Charging voltage

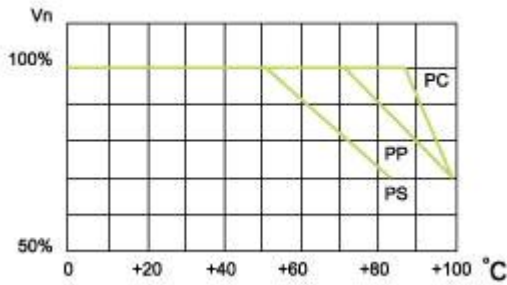
## 2. Temperature Characteristics



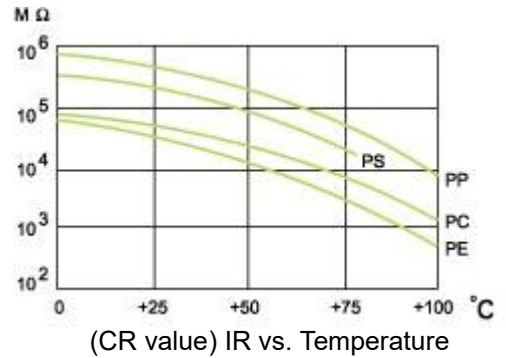
Capacitance change rate vs. Temperature



Operating current vs. Temperature

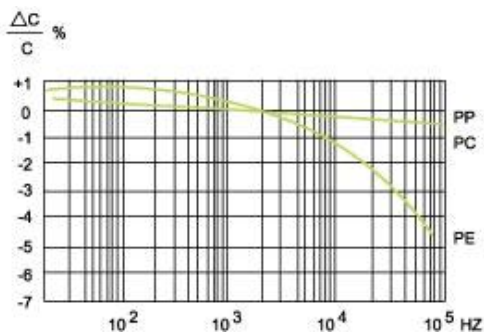


Operating voltage vs. Temperature

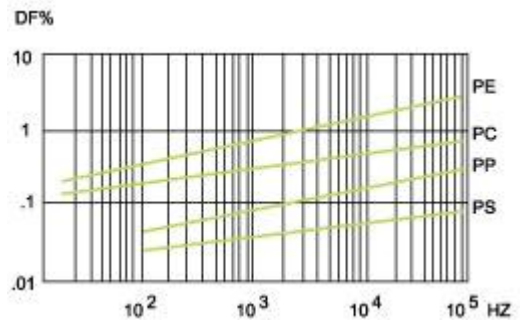


(CR value) IR vs. Temperature

## 3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency

