



CRC NEW ENERGY

APPROVAL SHEET

TO: 交流滤波薄膜电容 6.8uF±10% 300VAC

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

TYPE	specs	Dimensions (mm)						NOTE
		W	H	T	P	L	ΦD	
HAC5003	MKP-AC685K300VAC	32	37	22	27.5	6	0.8	

CUSTOMER CONFIRMATION			CR OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
				袁新海	李美欣
DATE			DATE	2024-04-18	

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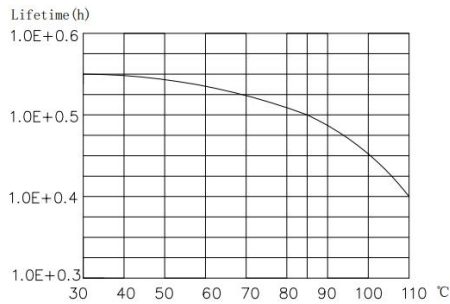
CRC-BDE-08

Technical Data

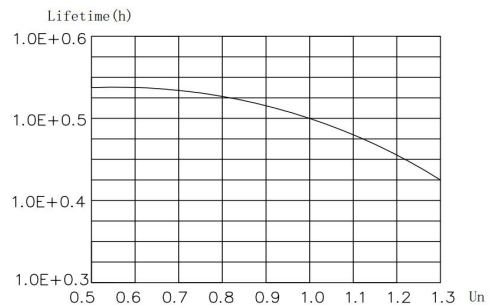
Items	Symbols	Values						
Rated capacitance	C _N	6.8μF ± 10%						
Rated voltage	U _N	300V.AC						
Non-recurrent surge voltage	U _s	700V.AC						
Maximum current	I _{rms}	6.5A						
Maximum peak current	Î	68A						
Maximum surge current	I _s	204A						
Series resistance	R _S	≤4.5m Ω						
Tangent of the loss	tan δ	≤0.0020 (1kHz)						
Insulation Resistance	C×R _{is}	≥5000S						
Self inductance	L _c	≤37.5nH						
Lowest operating temperature	Θmin	-40℃						
Maximum operating temperature	Θmax	105℃						
Operating humidity	RH	0~95%						
Storage temperature range	Θstorage	-40℃~105℃						
Service life		100000h						
Failure quota		< 100fit						
Test data								
Voltage test between terminals	V _{tt}	900V.DC/10S						
Damp heat test	Temperature: 85±2℃ Relative humidity (RH): 85±2% Test duration: 1000 h Voltage value: 240 VAC,50 Hz	No visible damage ΔC/C ≤10%,Δtanδ≤0.030,						
<table><tr><td rowspan="5">过电压</td><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></table>			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)
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	1.5 UN (30ms every time, 1 000times during the life of the capacitor)							
Operating altitude		2000m（max）						

Electrical Characteristics of Film Capacitor

1. Lifetime Expectancy

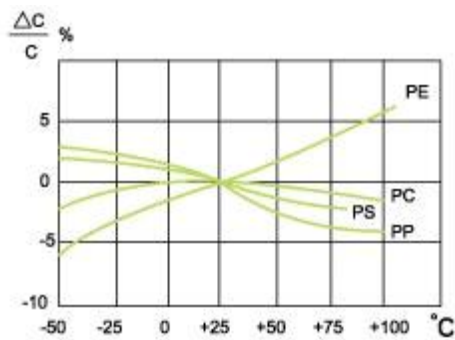


Lifetime expectancy vs. Charging temperature

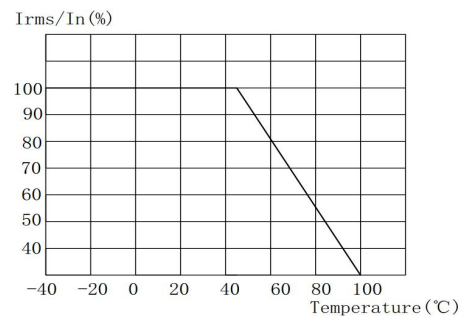


Lifetime expectancy vs. Charging voltage

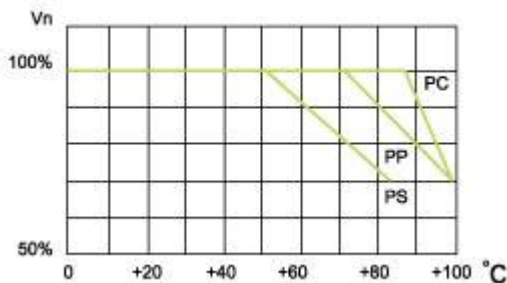
2. Temperature Characteristics



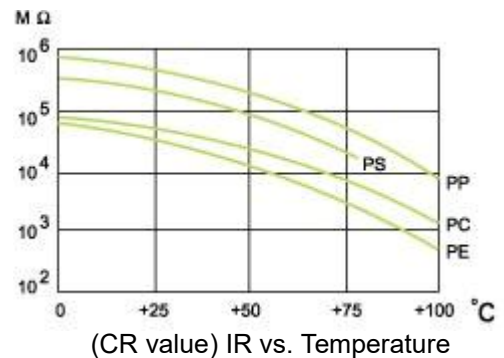
Capacitance change rate vs. Temperature



Operating current vs. Temperature

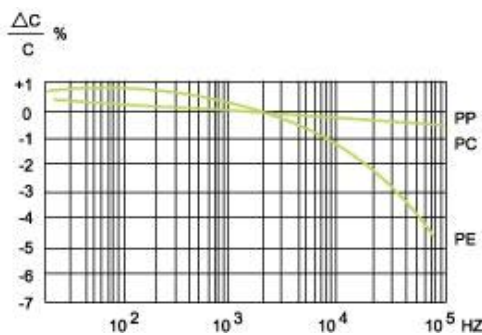


Operating voltage vs. Temperature

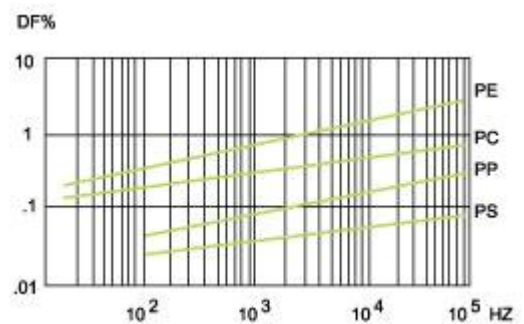


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency