



CRC NEW ENERGY

APPROVAL SHEET

TO: 交流滤波薄膜电容 30uF ± 10% 300VAC

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

Type	specs	Dimensions (mm)							NOTE
		W	H	T	P	P1	L	ΦD	
AC6053	MKP-AC306K300V.AC	57.5	50	35	52.5	20.3	6	1.2	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
				袁新海	李宛秋
DATE			DATE	2023-09-01	

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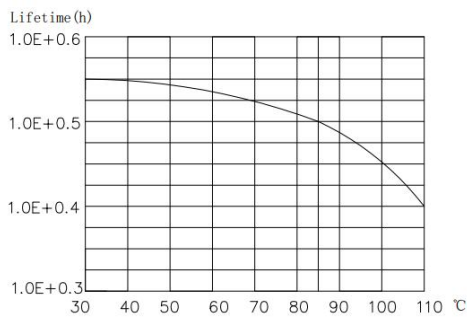
CRC-BDE-08

Technical Data

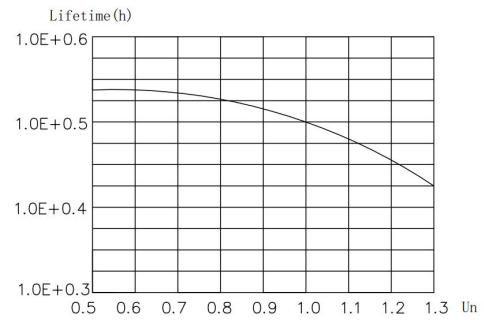
Items	Symbols	Values
Rated capacitance	C_N	$30\mu F \pm 10\%$
Rated voltage	U_N	300V.AC
Non-recurrent surge voltage	U_s	600V.AC
Maximum current	I_{rms}	20A
Maximum peak current	$\hat{I}$	900A
Maximum surge current	I_s	2700A
Series resistance	R_s	$\leq 2.2m\Omega$
Tangent of the loss	$\tan \delta$	$\leq 0.0020(1kHz)$
Insulation Resistance	$C \times R_{is}$	$\geq 5000S$
Self inductance	L_e	$< 40nH$
Lowest operating temperature	Θ_{min}	$-40^\circ C$
Maximum operating temperature	Θ_{max}	$105^\circ C$
Operating humidity	RH	0~95%
Storage temperature	$\Theta_{storage}$	$-40^\circ C \sim 105^\circ C$
Service life		100000h
At $\Theta_{hotspot}$		$\leq 105^\circ C$
Failure quota		$< 100Fit$
Test data		
Voltage test between terminals	V_{tt}	850V.DC/10S
A.C. voltage test between terminals and case	V_{t-c}	-
Operating altitude		2000m (max)
Terminal tightening torque		—
Bottom tightening torque		—
Weight		—

Electrical Characteristics of Film Capacitor

1. Lifetime Expectancy

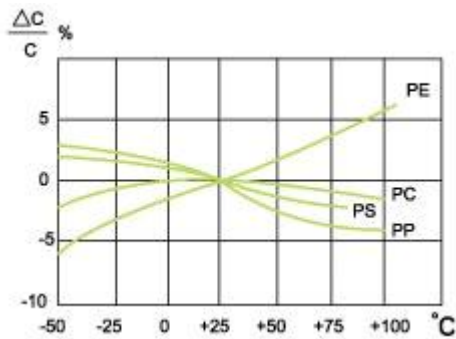


Lifetime expectancy vs. Charging temperature

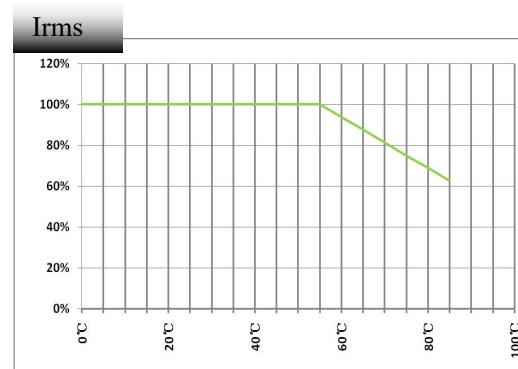


Lifetime expectancy vs. Charging voltage

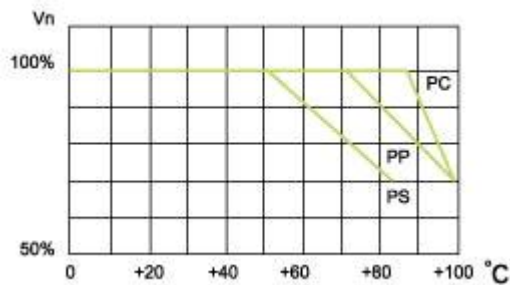
2. Temperature Characteristics



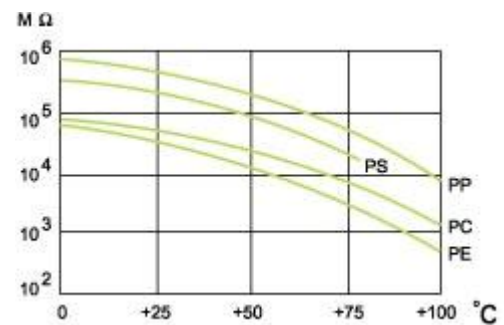
Capacitance change rate vs. Temperature



Operating current vs. Temperature

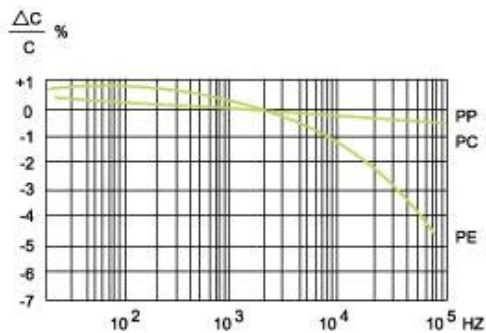


Operating voltage vs. Temperature

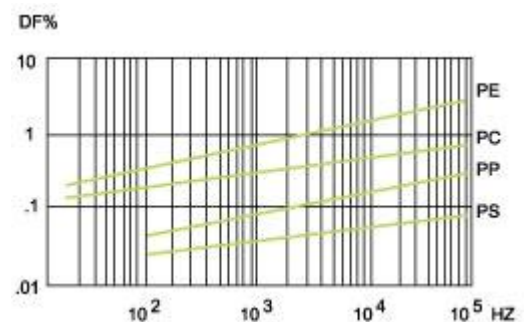


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency