



CRC NEW ENERGY

APPROVAL SHEET

TO: 直流支撑电容 2.2uF ± 10% 900V

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

Part No.	TYPE	Dimensions (mm)						NOTE
		W	H	T	P	L	ΦD	
FC5039	MKP-FC 2.2μF K 900VDC	32	33	18	27.5	15	0.8	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					田星月
DATE			DATE	2019-08-10	

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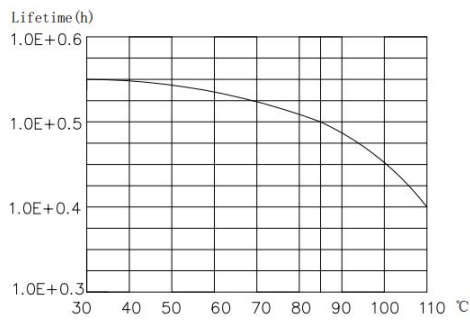
CRC-BDE-08

Technical Data

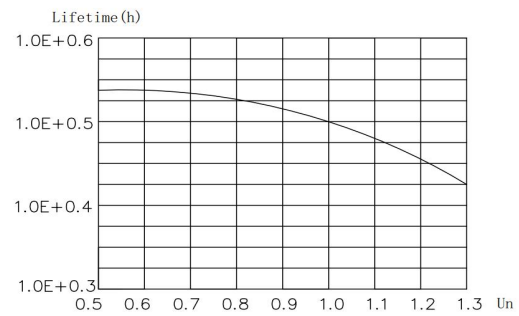
Items	Symbols	Values
Rated capacitance	C_N	$2.2\mu F \pm 10\%$
Rated voltage	U_N	900V.DC
Non-recurrent surge voltage	U_s	1500V.DC
Maximum current	I_{rms}	10A
Maximum peak current	$\hat{I}$	220A
Maximum surge current	I_s	660A
Series resistance	R_s	$\leq 11m\Omega$
Tangent of the loss	$\tan \delta$	≤ 0.0010
Insulation Resistance	$C \times R_{is}$	$\geq 5000S \quad 100V.DC/60S$
Lowest operating temperature	Θ_{min}	$-40^\circ C$
Maximum operating temperature	Θ_{max}	$105^\circ C$
operating humidity	RH	0~95%
Storage temperature	$\Theta_{storage}$	$85^\circ C$
Service life		100000h
At $\Theta_{hotspot}$		$\leq 85^\circ C$
Failure quota		$< 100Fit$
Test data		
Voltage test between terminals	V_{tt}	1350V.DC/10S
A.C. voltage test between terminals and case	V_{t-c}	-----
Operating altitude		2000m (max) 3000 m:0.85 U_N
Terminal tightening torque		—
Bottom tightening torque		—
Weight		—

Electrical Characteristics of Film Capacitor

1. Lifetime Expectancy

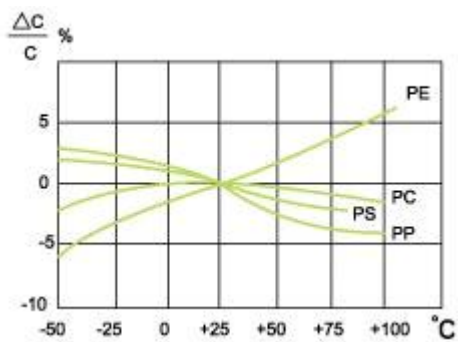


Lifetime expectancy vs. Charging temperature

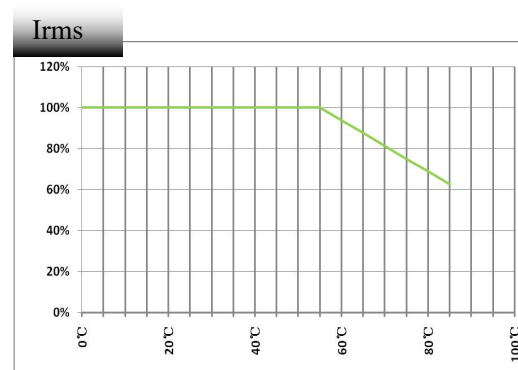


Lifetime expectancy vs. Charging voltage

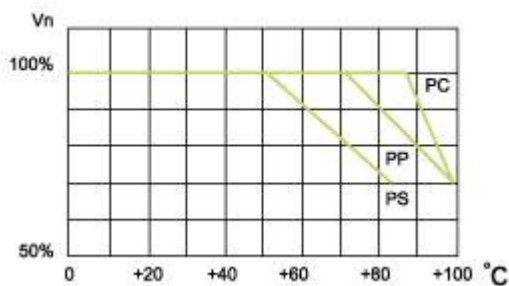
2. Temperature Characteristics



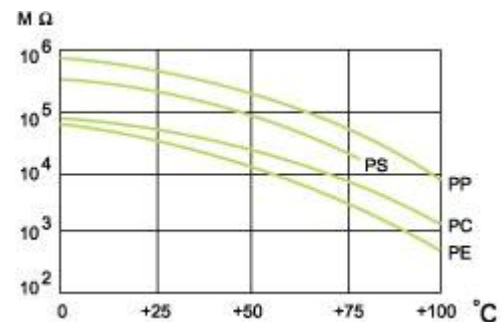
Capacitance change rate vs. Temperature



Operating current vs. Temperature

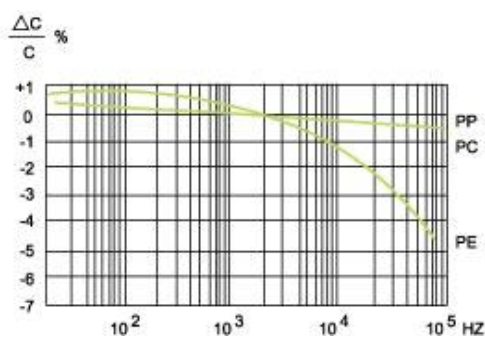


Operating voltage vs. Temperature

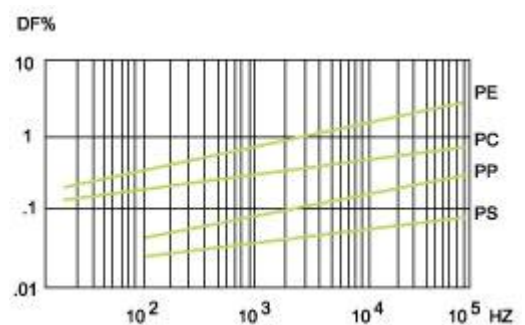


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency