



CRC NEW ENERGY

APPROVAL SHEET

TO: 直流支撑电容 3.3uF ± 5% 450V

Main Materials		MARKING & OUTLINE DRAWING
Construction	Materials	
Dielectric	Metallized Polypropylene Film	
Terminal	Tinned copper wire/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		
FC5027	MKP-FC3.3μFJ450VDC	32	25	14	27.5	15	0.8		

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					李道燕
DATE			DATE	2020-02-26	

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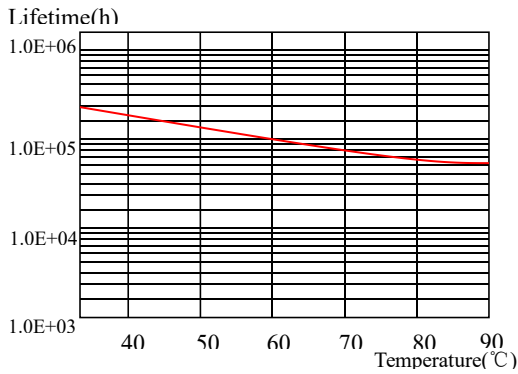
CRC-BDE-08

Technical Data

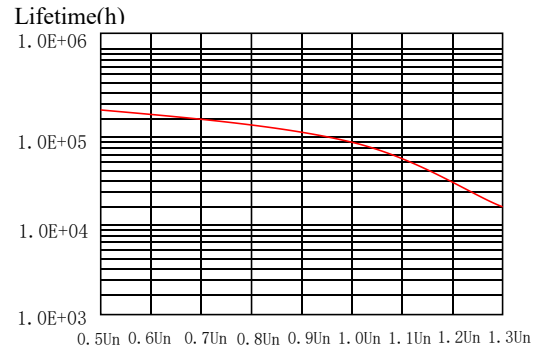
Items	Symbols	Values
Rated capacitance	C_N	$3.5\mu\text{F} \pm 5\%$
Rated voltage	U_N	450V.DC
Non-recurrent surge voltage	U_s	1350V.DC
Maximum current	I_{rms}	7.3A
Maximum peak current	\hat{I}	350A
Maximum surge current	I_s	1050A
Series resistance	R_s	$\leq 18.2\text{m}\Omega$
Tangent of the loss	$\tan \delta$	$\leq 0.0015(1\text{KHz})$
Insulation Resistance	$C \times R_{is}$	$\geq 5000\text{S}$
Self inductance	L_e	$\leq 25\text{nH}$
Lowest operating temperature	Θ_{min}	-40°C
Maximum operating temperature	Θ_{max}	105°C
Operating humidity	RH	0~95%
Storage temperature	$\Theta_{storage}$	105°C
Service life		100000h
At $\Theta_{hotspot}$		$\leq 70^\circ\text{C}$
Failure quota		$< 100\text{Fit}$
Test data		
Voltage test between terminals	V_{tt}	1200V.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

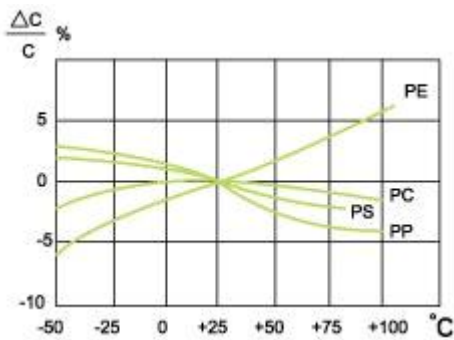


Life time Expectancy of charge temperature

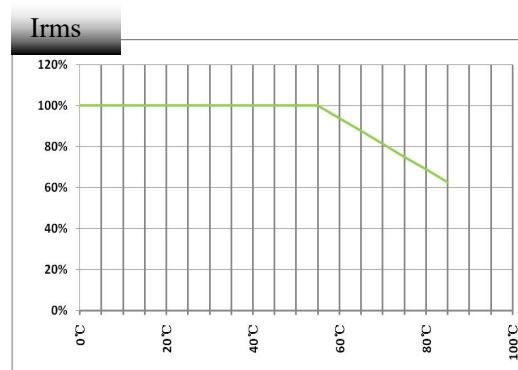


Life time Expectancy of charge voltage

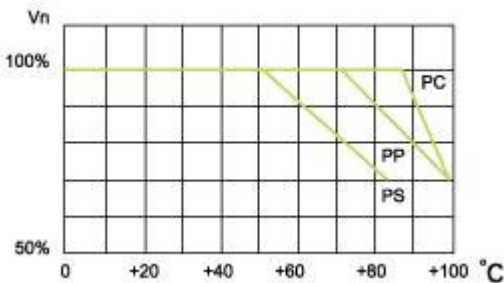
2. Temperature Characteristics



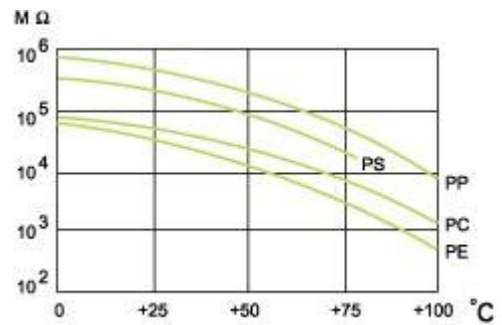
Capacitance vs. Temperature



Operation current vs. Temperature

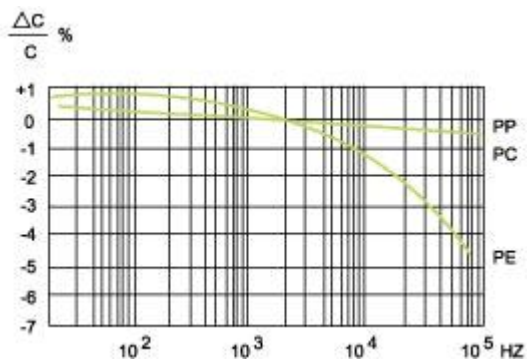


Operation voltage vs. Temperature

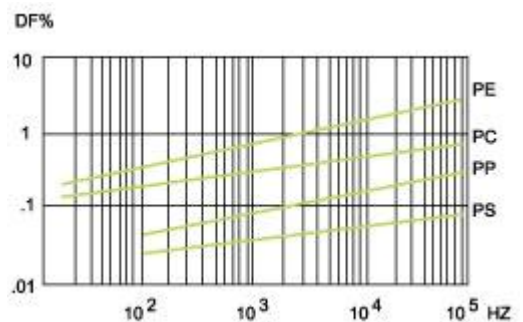


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance vs. Frequency



Dissipation Factor vs. Frequency