



CRC NEW ENERGY

APPROVAL SHEET

TO: 直流支撑电容 75uF ± 5% 500V

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

Part No.	TYPE	Dimensions (mm)							NOTE
		W	H	T	P1	P2	L	ΦD	
FC6020	MKP-FC 75μF J500VDC	57.5	50	35	52.5	20.3	6	1.2CU	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
				张东泽	李道燕
DATE			DATE	2019-10-13	

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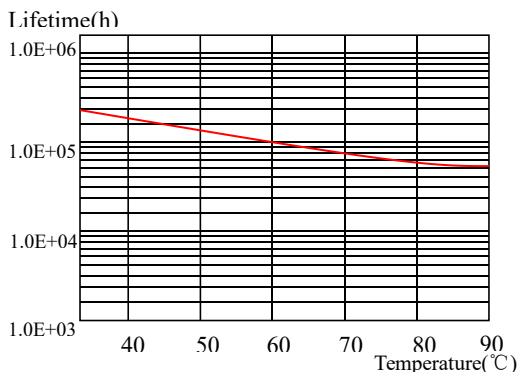
CRC-BDE-09

Technical Data

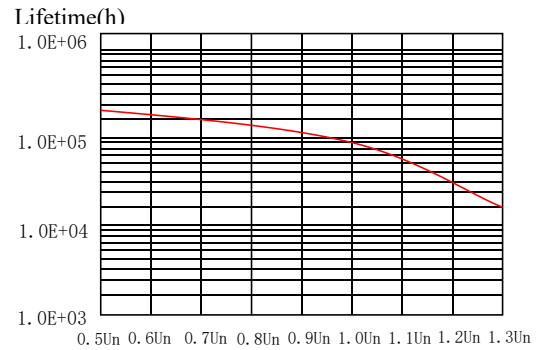
Items	Symbols	Values
Rated capacitance	C_N	$75\mu\text{F} \pm 5\%$
Rated voltage	U_N	500V.DC
Non-recurrent surge voltage	U_s	750V.DC
Maximum current	I_{rms}	25.5A
Maximum peak current	\hat{I}	1300A
Maximum surge current	I_s	3900A
Series resistance	R_s	$\leq 4.4\text{m}\Omega$
Tangent of the loss	$\tan \delta$	$\leq 0.0037(1\text{KHZ})$
Insulation Resistance	$C \times R_{is}$	$\geq 5000\text{s}$
Self inductance	L_e	$\leq 15\text{nH}$
Lowest operating temperature	Θ_{min}	-40°C
Maximum operating temperature	Θ_{max}	105°C
operating humidity	RH	0~95%
Storage temperature	$\Theta_{storage}$	85°C
Service life		100000h
At $\Theta_{hotspot}$		$\leq 70^\circ\text{C}$
Failure quota		300Fit
Test data		
Voltage test between terminals	V_{tt}	750V.DC/10S
A.C. voltage test between terminals and case	V_{t-c}	3000V.AC/10S
Operating altitude		2000m (max)
Terminal tightening torque		—
Bottom tightening torque		—
Weight		kg

ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

1. Lifetime Expectancy

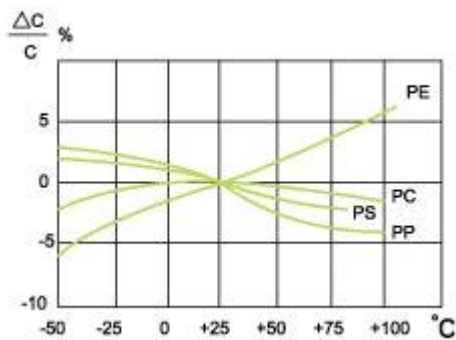


Lifetime expectancy vs. Charging temperature

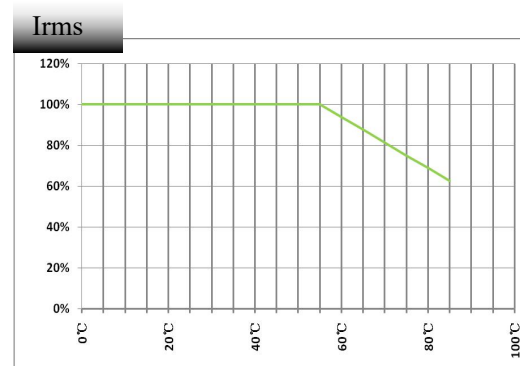


Lifetime expectancy vs. Charging voltage

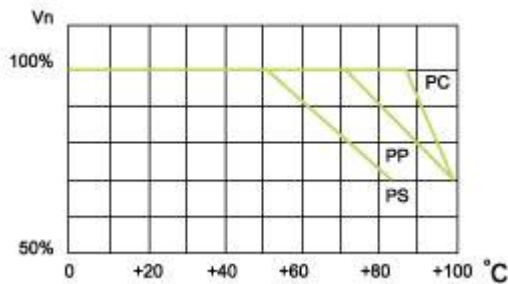
2. Temperature Characteristics



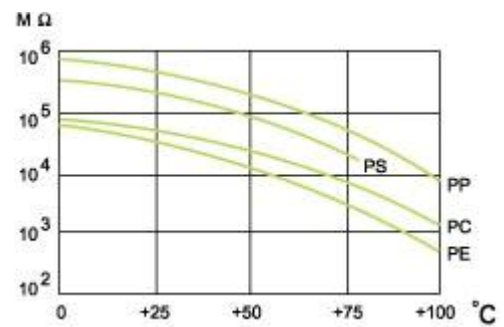
Capacitance change rate vs. Temperature



Operating current vs. Temperature

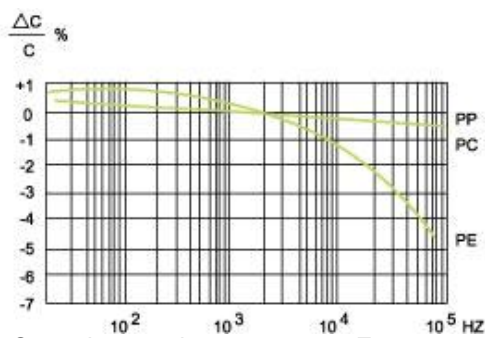


Operating voltage vs. Temperature

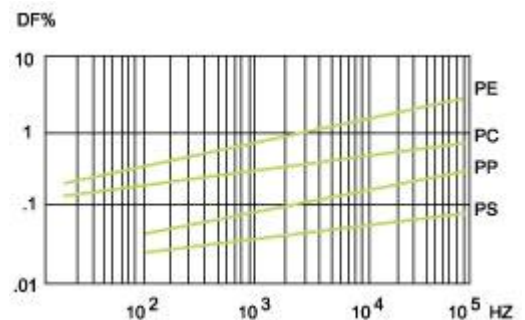


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency