



CRC NEW ENERGY

APPROVAL SHEET

TO: 直流支撑电容10uF ± 5% 500V

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

TYPE	specs	Dimensions (mm)							NOTE
		W	H	T	P		L	ΦD	
FC6151	MKP-FC 10μFJ500VDC	32	28	14	27.5		15	0.8	

CUSTOMER CONFIRMATION			CR OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
				李章毫	李爱
DATE			DATE	2021-03-05	

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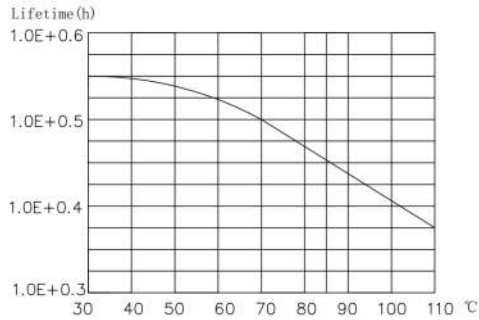
CRC-BDE-0

Technical Data

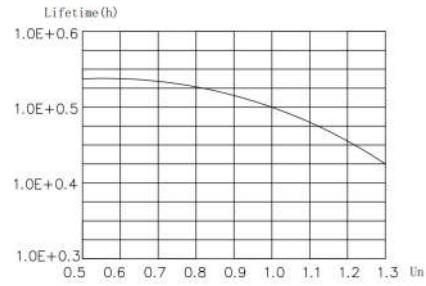
Items	Symbols	Values
Rated capacitance	C_N	$10\mu F \pm 5\%$
Rated voltage	U_N	500V.DC
Non-recurrent surge voltage	U_s	850V.DC
Maximum current	I_{rms}	6A
Maximum peak current	$\hat{I}$	650A
Maximum surge current	I_s	1950A
Series resistance	R_s	$\leq 7.5m\Omega$
Tangent of the loss	$\tan \delta$	$\leq 0.0015(1KHz)$
Insulation Resistance	$C \times R_{is}$	$\geq 5000S$
Self inductance	L_e	$\leq 30nH$
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 $\Theta_{hotspot}$		$\leq 70^\circ C$
Failure quota		$< 100Fit$
Test data		
Voltage test between terminals	V_{tt}	750V.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

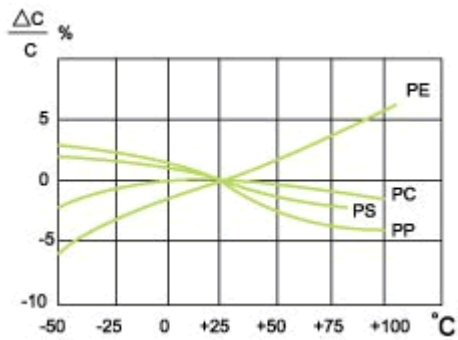


Lifetime expectancy vs. Charging temperature

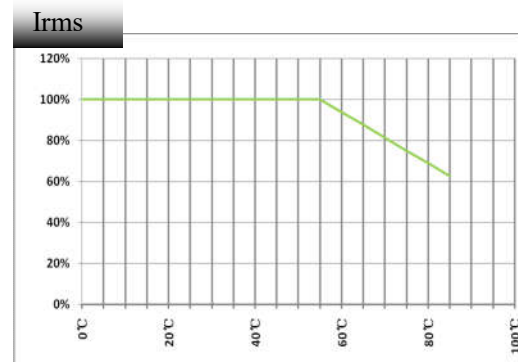


Lifetime expectancy vs. Charging voltage

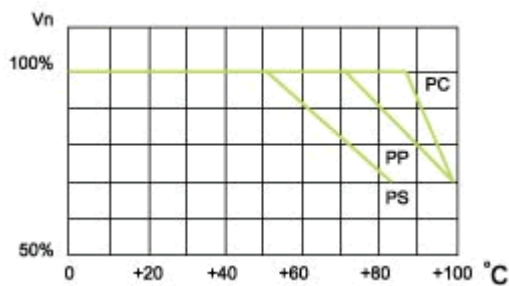
2. Temperature Characteristics



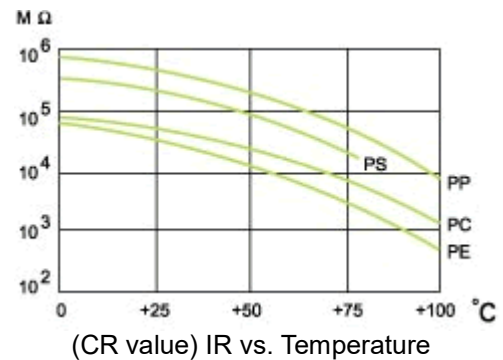
Capacitance change rate vs. Temperature



Operating current vs. Temperature

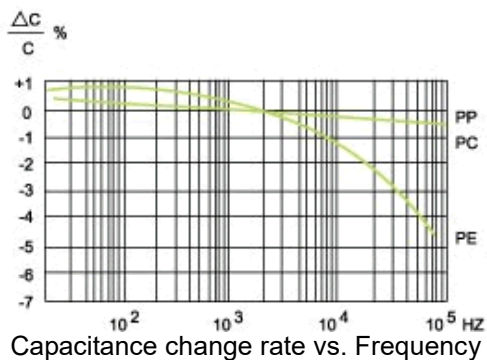


Operating voltage vs. Temperature

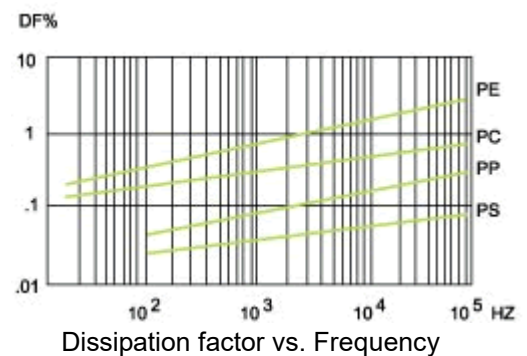


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency