



CRC NEW ENERGY

APPROVAL SHEET

承认书

TO: 直流支撑电容 150 μ F \pm 10% 800V

Main Materials		MARK & OUTLINE DRAWING
Construction	Materials	<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> MKP-FS 150 μ F \pm 10% U_N 800V.DC 40/85/56 SH Date code LOT NO.: 传票号 </div>
Dielectric	Metallized Polypropylene Film	
Terminal	M8 \times 20 copper nut	
Filling	Flame-retardant epoxy resin, black	
Case	Al. case	

Part No.	TYPE	Dimensions (mm)					NOTE
		D	H	P			
FS7069	MKP-FS 150 μ F K 800VDC	86	80	32			

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					闫佳佳
DATE			DATE	2020-08-26	

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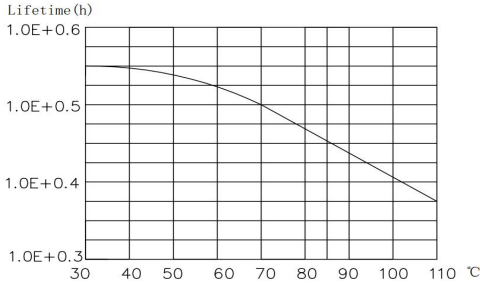
CRC-BDE-08

Technical Data

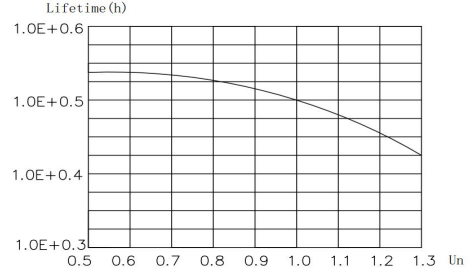
Items	Symbols	Values					
Rated capacitance	C_N	$150\mu\text{F} \pm 10\%$					
Rated voltage	U_N	800V.DC					
Maximum current	I_{rms}	70A					
Maximum peak current	\hat{i}	1500A					
Maximum surge current	I_S	4500A					
Series resistance	R_S	$\leq 2.4\text{m}\Omega$					
Tangent of the loss	$\tan \delta$	$\leq 0.0020(100\text{Hz})$					
Insulation Resistance	$C \times R_{is}$	$\geq 5000\text{S}$					
Self inductance	L_e	$< 40\text{nH}$					
Lowest operating temperature	Θ_{min}	-40°C					
Maximum operating temperature	Θ_{max}	105°C					
Operating humidity	RH	0~95%					
Storage temperature	$\Theta_{storage}$	$-40^\circ\text{C} \sim 105^\circ\text{C}$					
Service life		100000h					
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}	3000V.AC/10S					
过电压		<table border="1"> <tr> <td>1.1 UN (30% of on-load-dur.)</td> </tr> <tr> <td>1.15 UN (30min/day)</td> </tr> <tr> <td>1.2 UN (5min/day)</td> </tr> <tr> <td>1.3 UN (1min/day)</td> </tr> <tr> <td>1.5 UN (30ms every time, 1 000times during the life of the capacitor)</td> </tr> </table>	1.1 UN (30% of on-load-dur.)	1.15 UN (30min/day)	1.2 UN (5min/day)	1.3 UN (1min/day)	1.5 UN (30ms every time, 1 000times during the life of the capacitor)
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1.3 UN (1min/day)							
1.5 UN (30ms every time, 1 000times during the life of the capacitor)							
Operating altitude		3000m (max)					
Terminal tightening torque		4.5Nm (max)					
Bottom tightening torque		7Nm (max)					
Weight							

ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

1. Lifetime Expectancy

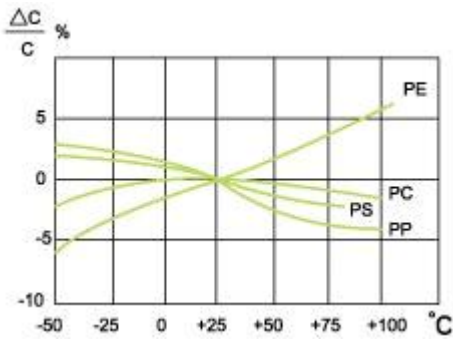


Lifetime expectancy vs. Charging temperature



Lifetime expectancy vs. Charging voltage

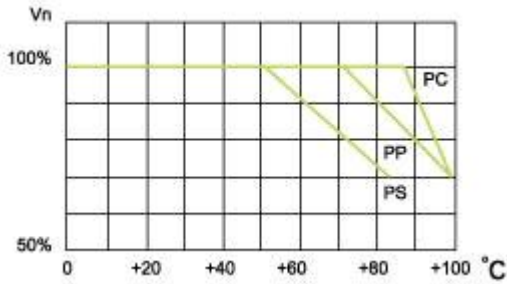
2. Temperature Characteristics



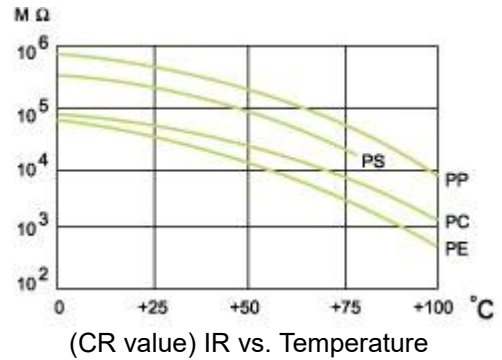
Capacitance change rate vs. Temperature



Operating current vs. Temperature

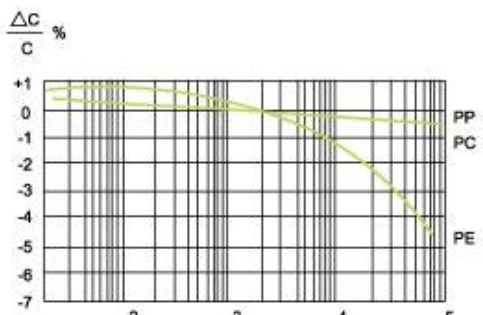


Operating voltage vs. Temperature

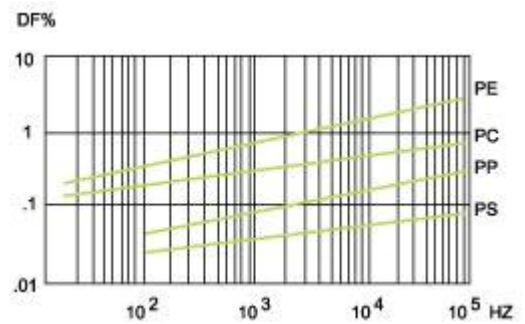


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency

