



CRC NEW ENERGY

APPROVAL SHEET

TO: 缓冲吸收电容 1uF ± 10% 1200V

Main Materials		MARKING & OUTLINE DRAWING	
Construction	Materials	<p>$L \times F \times N \times S = 14.0 \times 15.0 \times 8.5 \times 6.5$</p>	
Dielectric	Metallized Polypropylene Film		
Terminal	Tinned copper plate		
Filling	Flame-retardant epoxy resin, white		
Case	Flame-retardant plastic case, grey		

Part No.	TYPE	Dimensions (mm)					NOTE
		W	H	T	P	P1	
HS5005	MKP-HS 1.0μF K1200VDC	42.5	35.5	33.5	25	11	

CUSTOMER CONFIRMATION			CR OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					闫佳佳
DATE			DATE	2019-12-19	

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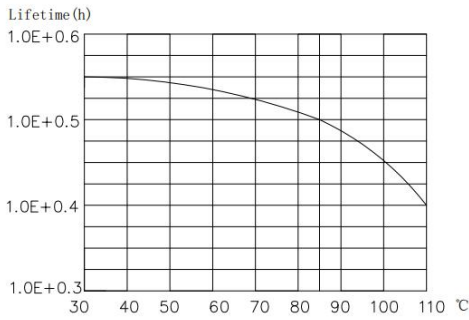
CRC-BDE-08

Technical Data

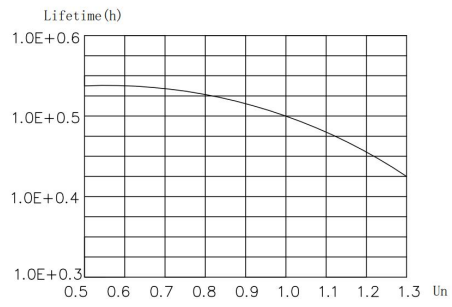
Items	Symbols	Values
Rated capacitance	C_N	$1.0\mu\text{F} \pm 10\%$
Rated voltage	U_N	1200V.DC
Non-recurrent surge voltage	U_s	1950V.DC
Maximum current	I_{rms}	14A
Maximum peak current	\hat{I}	800A
Maximum surge current	I_s	2400A
Series resistance	R_s	$\leq 6\text{m}\Omega$
Tangent of the loss	$\tan \delta$	$\leq 0.0015(10\text{kHz})$
Insulation Resistance	$C \times R_{is}$	$\geq 5000\text{S}$
Self inductance	L_e	$\leq 22\text{nH}$
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		100Fit
Test data		
Voltage test between terminals	V_{tt}	1800V.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		60g

ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

1. Lifetime Expectancy

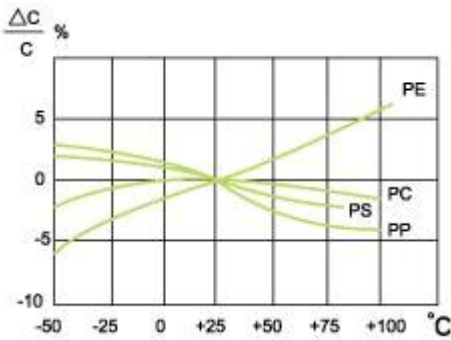


Lifetime expectancy vs. Charging temperature

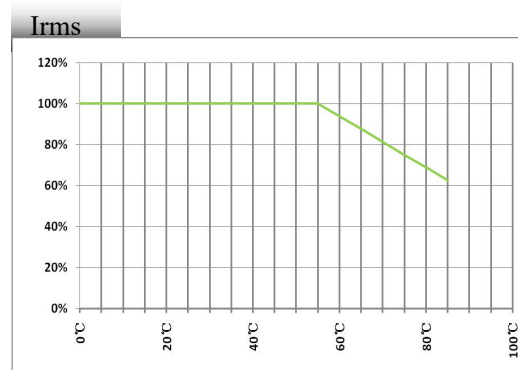


Lifetime expectancy vs. Charging voltage

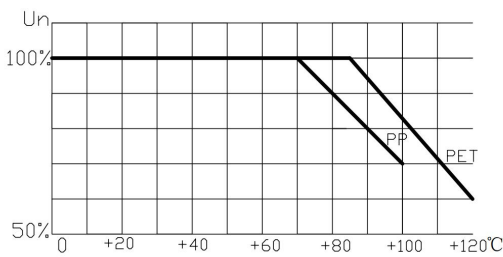
2. Temperature Characteristics



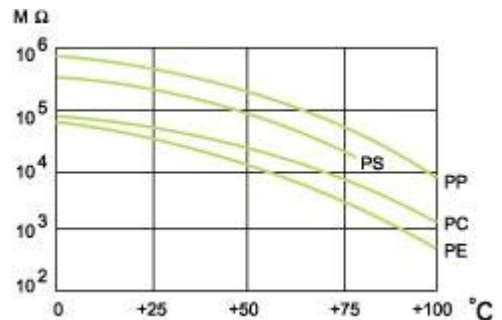
Capacitance change rate vs. Temperature



Operating current vs. Temperature

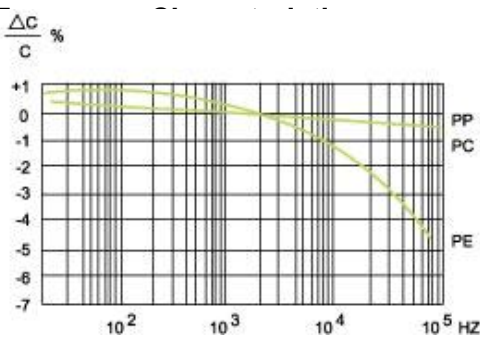


Operating voltage vs. Temperature

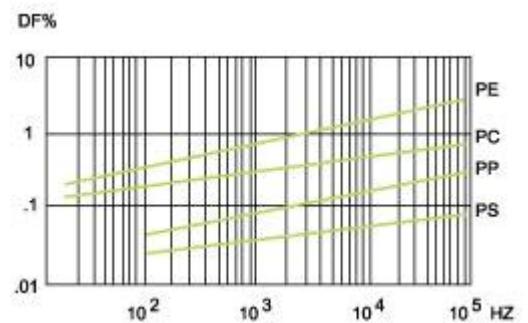


(CR value) IR vs. Temperature

3.



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency