



CRC NEW ENERGY

# APPROVE SHEET

TO: 缓冲吸收电容 1uF ± 5% 1250V

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

MKP-HS  
1.0uF J  
datecode.1250V.DC  
www.csdcap.com.

Part No.	TYPE	Dimensions (mm)					NOTE
		W	H	T	P1	P	
HS5030	MKP-HS 1.0μF J 1250VDC	41.5	41	27.5	10	26	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					李道燕
DATE			DATE	2019-11-03	

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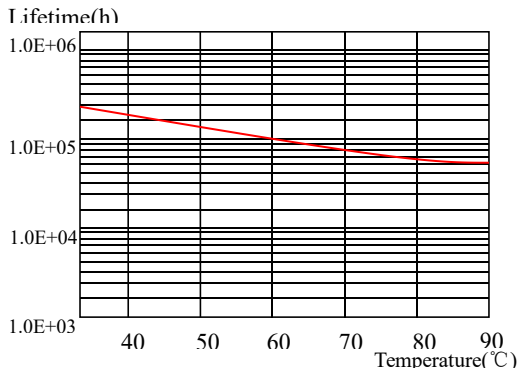
CRC-BDE-08

## Technical Data

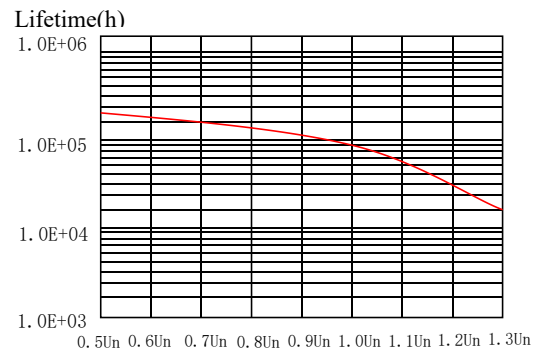
Items	Symbols	Values
Rated capacitance	$C_N$	$1.0\mu\text{F} \pm 5\%$
Rated voltage	$U_N$	1250V.DC
Non-recurrent surge voltage	$U_s$	-----
Maximum current	$I_{rms}$	14A
Maximum peak current	$\hat{I}$	800A
Maximum surge current	$I_s$	-----
Series resistance	$R_s$	$\leq 6.0\text{m}\Omega$
Tangent of the loss	$\tan \delta$	$\leq 0.0010(10\text{KHz})$
Insulation Resistance	$C \times R_{is}$	$\geq 5000\text{S}$
Self inductance	$L_e$	$\leq 22\text{nH}$
Lowest operating temperature	$\Theta_{min}$	$-40^\circ\text{C}$
Maximum operating temperature	$\Theta_{max}$	$105^\circ\text{C}$
Operating humidity	RH	0~95%
Storage temperature	$\Theta_{storage}$	$85^\circ\text{C}$
Service life		100000h
At $\Theta_{hotspot}$		$\leq 85^\circ\text{C}$
Failure quota		100Fit
<b>Test data</b>		
Voltage test between terminals	$V_{tt}$	1800V.DC/10S
A.C. voltage test between terminals and case	$V_{t-c}$	-----
Operating altitude		1000m (max)
Terminal tightening torque		4.5Nm (max)
Bottom tightening torque		7Nm (max)
Weight		kg

# ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

## 1. Lifetime Expectancy

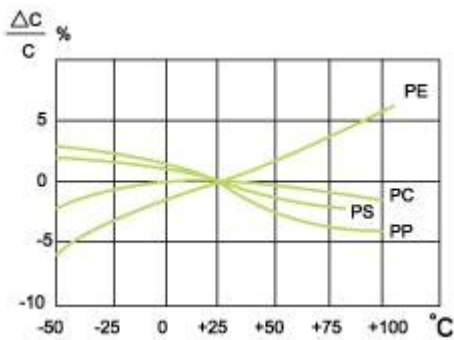


Lifetime expectancy vs. Charging temperature

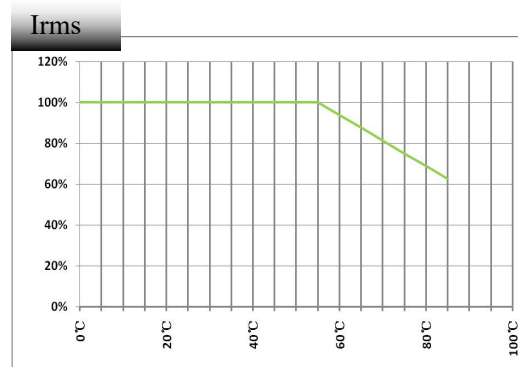


Lifetime expectancy vs. Charging voltage

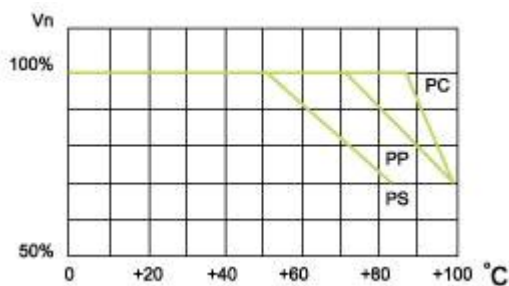
## 2. Temperature Characteristics



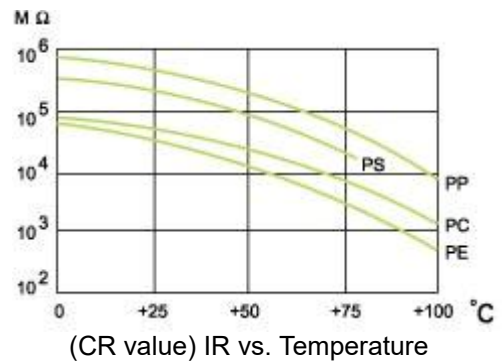
Capacitance change rate vs. Temperature



Operating current vs. Temperature

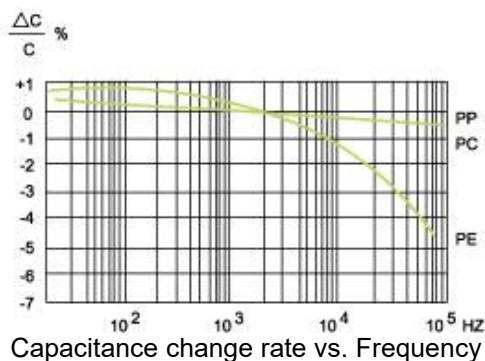


Operating voltage vs. Temperature

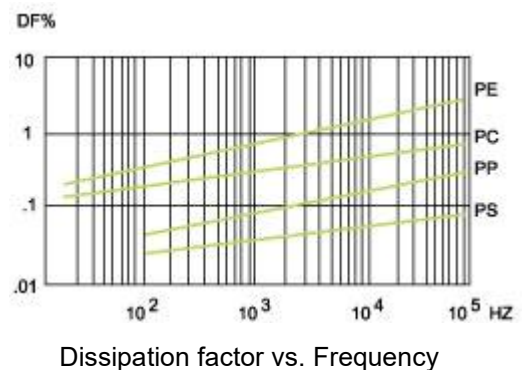


(CR value) IR vs. Temperature

## 3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency

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