



CRC NEW ENERGY

APPROVAL SHEET

TO: 缓冲吸收电容 470nF±5% 1700V

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	$L \times F \times N \times S = 14.0 \times 15.0 \times 8.3 \times 6.2$	

Part No.	TYPE	Dimensions (mm)					NOTE
		W	H	T	P1	P	
HS4063	MKP-HS 0.47μF J 1700VDC	42.5	27.5	24.5	12	26	

CUSTOMER CONFIRMATION			CRC OFFER		
STAMP	APPROVED BY	CHECKED BY	STAMP	APPROVED BY	PREPARED BY
					李爱
DATE			DATE	2020-10-30	

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Technical Data

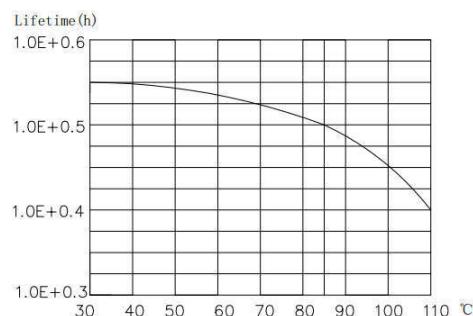
Items	Symbols	Values
Rated capacitance	C_N	$0.47\mu F \pm 5\%$
Rated voltage	U_N	1700V.DC
Non-recurrent surge voltage	U_s	2600V.DC
Maximum current	I_{rms}	12A
Maximum peak current	\hat{I}	470A
Maximum surge current	I_S	1410A
Series resistance	R_S	$\leq 30m\Omega$
Tangent of the loss	$\tan \delta$	$\leq 0.0015(10KHZ)$
Insulation Resistance	$C \times R_{is}$	$\geq 5000S$
Self inductance	L_e	$\leq 24nH$
Lowest operating temperature	Θ_{min}	-40°C
Highest operating temperature	Θ_{max}	105°C
Storage temperature		-40~105°C
Operating humidity	RH	0~95%
Service life		100000h
Failure quota		<100Fit

Test data

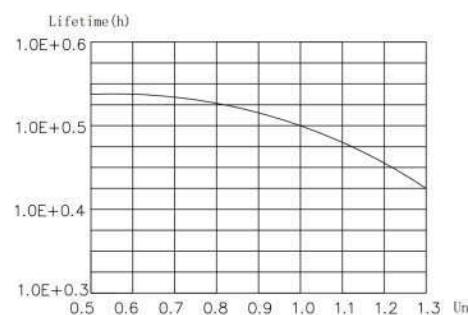
Voltage test between terminals	V _{tt}	2550V.DC/10S
过电压	1.1 UN (30% of on-load-dur.) 1.15 UN (30min/day) 1.2 UN (5min/day) 1.3 UN (1min/day) 1.5 UN (30ms every time, 1 000times during the life of the capacitor)	
Operating altitude		1000m (max)
Terminal tightening torque		---
Bottom tightening torque		---
Weight		---

ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

1. Lifetime Expectancy

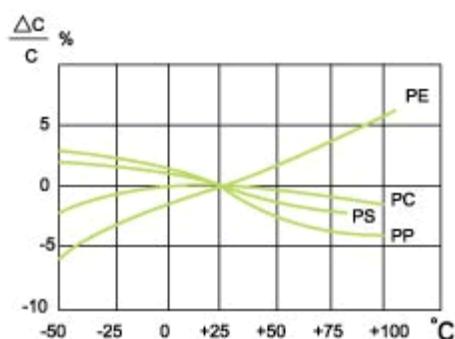


Lifetime expectancy vs. Charging temperature



Lifetime expectancy vs. Charging voltage

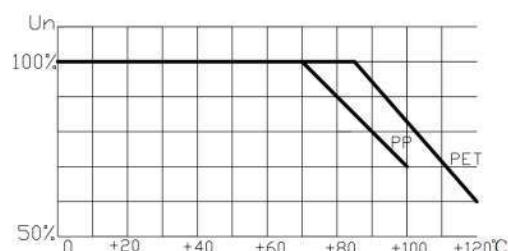
2. Temperature Characteristics



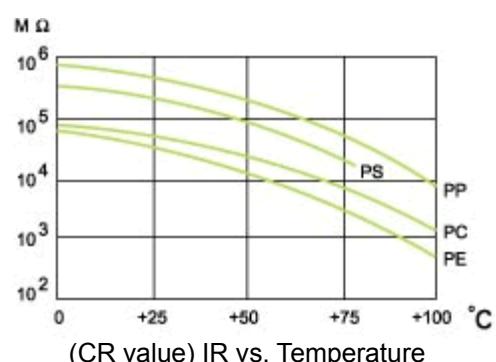
Capacitance change rate vs. Temperature



Operating current vs. Temperature

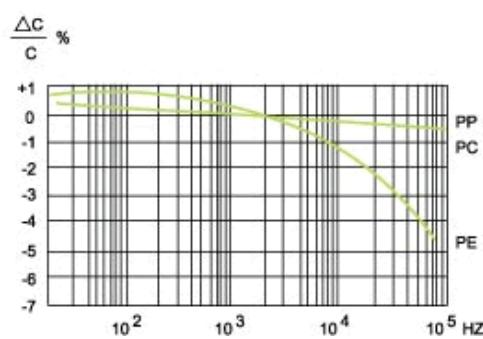


Operating voltage vs. Temperature

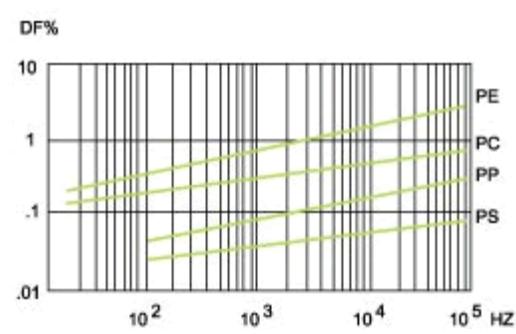


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency