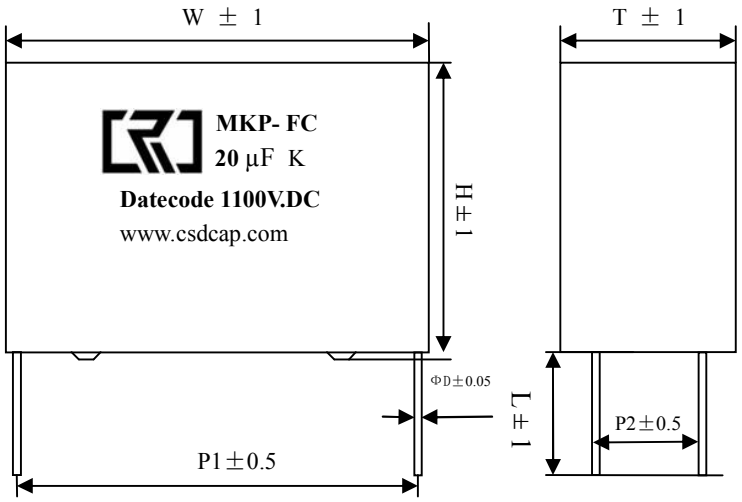
CRC NEW ENERGY

APPROVAL SHEET

TO: 直流支撑电容 20uF±10% 1100V

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

Part No.	TYPE	Dimensions（mm）							NOTE
		W	H	T	P1	P2	L	ΦD	
FC6090	MKP-FC 20μF K 1100V.DC	41.5	41	27.5	37.5	10.2	4	1.2	

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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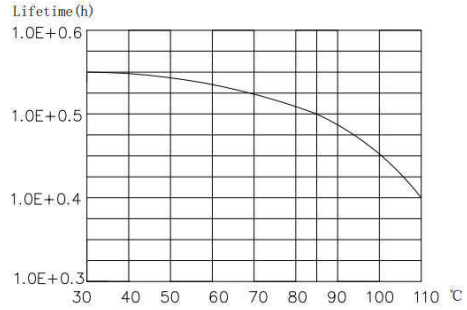
Technical Data

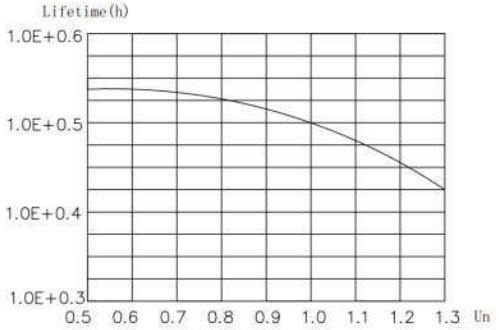
Items	Symbols	Values
Rated capacitance	C_N	20μF±10% 1KHz/25℃
Rated voltage	U_N	1100V.DC
Non-recurrent surge voltage	U_s	1700V.DC
Maximum current	Irms	16A
Maximum peak current	Î	300A
Maximum surge current	I_S	900A
Series resistance	R_S	≤8.2mΩ 1KHz/25℃
Tangent of the loss	tan δ	≤0.0015 100Hz/25℃
Insulation Resistance	$C \times R_{is}$	≥5000S 100V.DC/60S
Self inductance	L_e	≤35nH 1KHz/25℃
Lowest operating temperature	Θmin	-40℃
Maximum operating temperature	Θmax	105℃
Operating humidity	RH	0~95%
Service life		100000h
Failure quota		＜100Fit
Flame retardant grade		UL94-V0
Test data		
Voltage test between terminals	Vtt	1650V.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		2000m（max） 3000 m:0.85Un
With reference to the standard	GB/T 17702-2013	IEC61071:2007

ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

1. Lifetime Expectancy

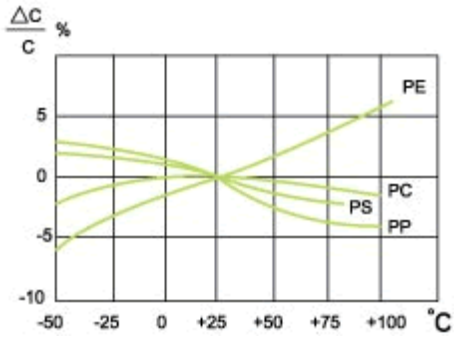


Lifetime expectancy vs. Charging temperature

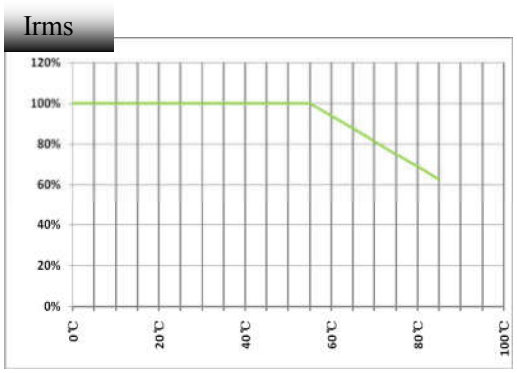


Lifetime expectancy vs. Charging voltage

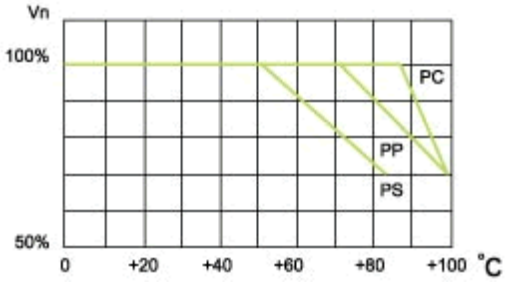
2. Temperature Characteristics



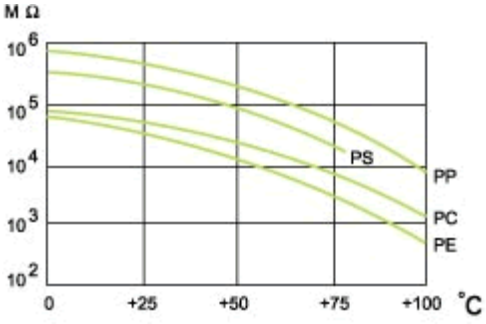
Capacitance change rate vs. Temperature



Operating current vs. Temperature

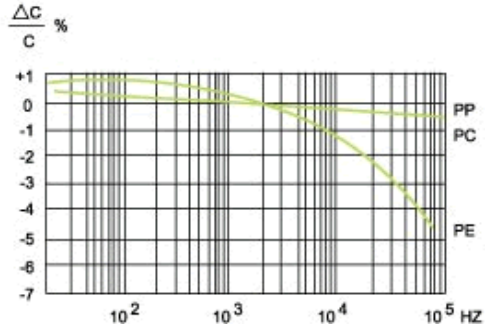


Operating voltage vs. Temperature

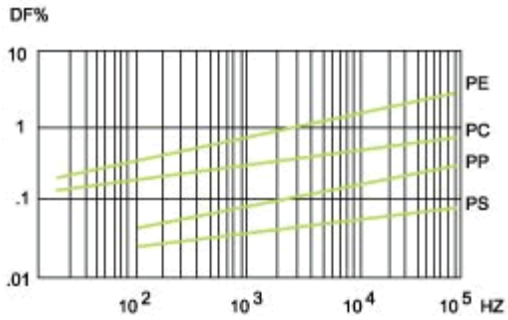


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency