



CRC NEW ENERGY

APPROVAL SHEET

TO: 谐振薄膜电容 680nF ±5% 1000V

Main Materials		MARKING & OUTLINE DRAWING
Construction	Materials	
Dielectric	Metallized Polypropylene Film	
Terminal	Tinned Copper Wire	
Filling	Flame-retardant epoxy resin, white	
Case	Mylar tape	

Part No.	TYPE	Dimensions (mm)						NOTE
		W	H	T	P	L	D	
RS4078	MKP-RS684J1000V	42.5	28	17	37.5	6	1.2	

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

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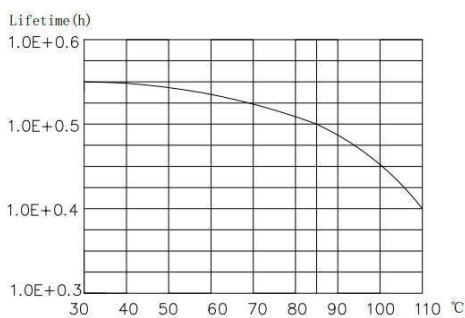
CRC-BDE-08

Technical Data

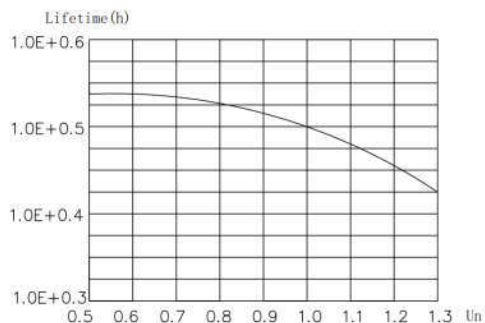
Items	Symbols	Values
Rated capacitance	C_N	$0.68\mu\text{F} \pm 5\%$
Rated voltage	U_N	1000V.DC
Non-recurrent surge voltage	U_s	1600V.DC
Maximum current	I_{rms}	10A
Maximum peak current	\hat{i}	408A
Maximum surge current	I_s	1224A
Series resistance	R_s	$\leq 4.4\text{m}\Omega @100\text{kHz}$
Tangent of the loss	$\tan \delta$	$\leq 0.0015(10\text{KHz})$
Insulation Resistance	$C \times R_{is}$	$\geq 10000\text{S}$
Self inductance	L_e	$\leq 40\text{nH}$
Lowest operating temperature	Θ_{min}	-40°C
Storage temperature	$\Theta_{storage}$	105°C
Operating humidity	RH	0~95%
Service life		100000h
Failure quota		$< 100\text{Fit}$
Test data		
Voltage test between terminals	V_{tt}	1500V.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)
Terminal tightening torque		— — —
Bottom tightening torque		— — —
Weight		— — —

ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

1. Lifetime Expectancy

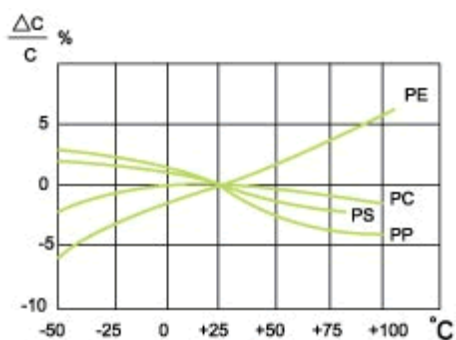


Lifetime expectancy vs. Charging temperature



Lifetime expectancy vs. Charging voltage

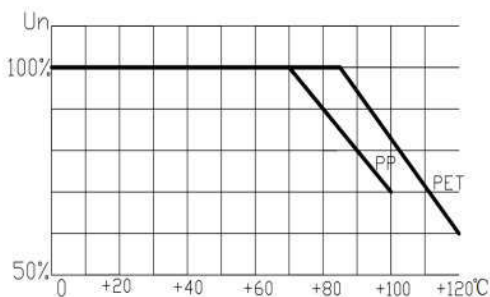
2. Temperature Characteristics



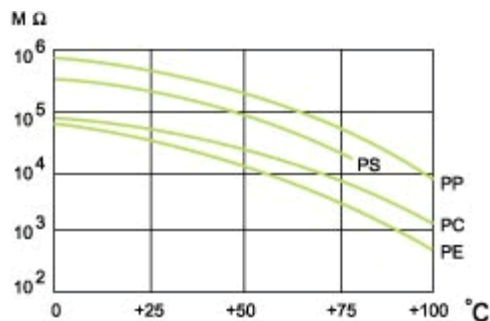
Capacitance change rate vs. Temperature



Operating current vs. Temperature

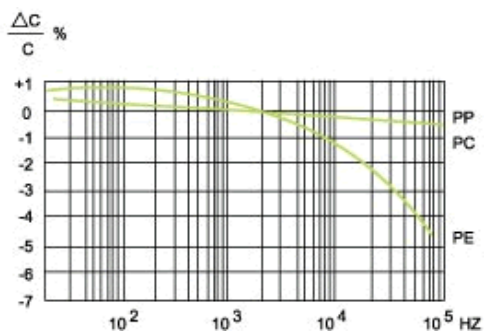


Operating voltage vs. Temperature

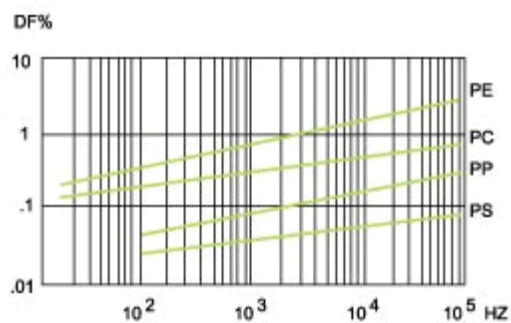


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency

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