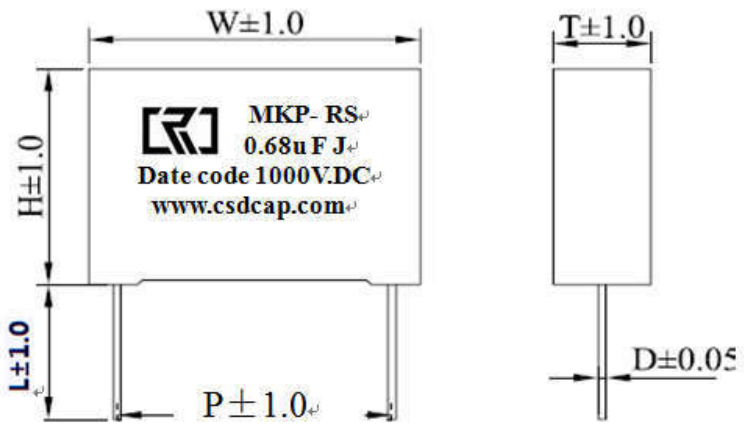
CRC NEW ENERGY

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**
					李爱
DATE			**DATE**	2020-10-30	

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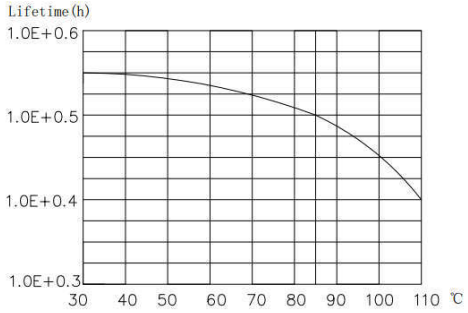
Technical Data

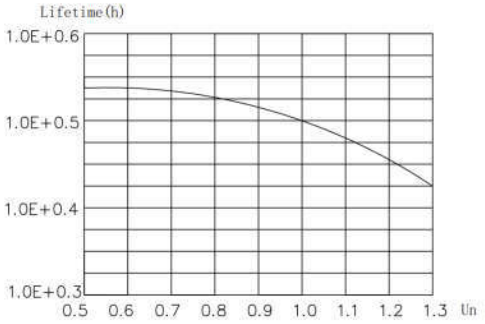
Items	Symbols	Values
Rated capacitance	C_N	0.68μF±5%
Rated voltage	U_N	1000V.DC
Non-recurrent surge voltage	U_s	1600V.DC
Maximum current	Irms	10A
Maximum peak current	Î	408A
Maximum surge current	I_S	1224A
Series resistance	R_S	≤4.4mΩ@100kHz
Tangent of the loss	tan δ	≤0.0015(10KHz)
Insulation Resistance	$C \times R_{is}$	≥10000S
Self inductance	L_e	≤40nH
Lowest operating temperature	Θmin	-40℃
Storage temperature	Θstorage	105℃
Operating humidity	RH	0~95%
Service life		100000h
Failure quota		＜100Fit
Test data		
Voltage test between terminals	Vtt	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

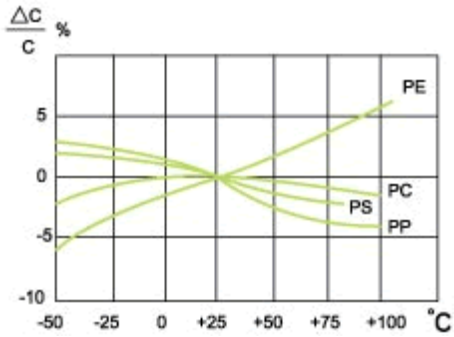


Lifetime expectancy vs. Charging temperature

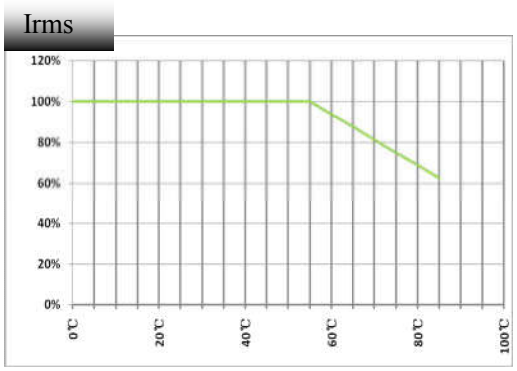


Lifetime expectancy vs. Charging voltage

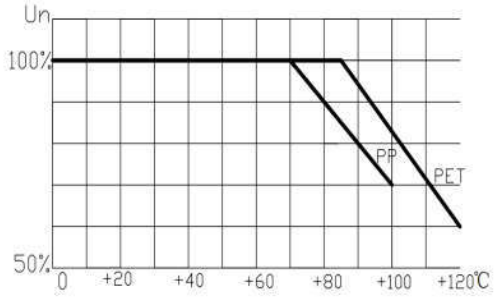
2. Temperature Characteristics



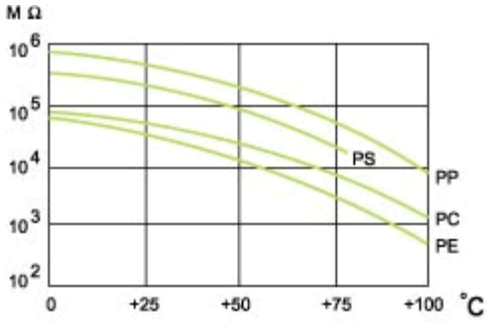
Capacitance change rate vs. Temperature



Operating current vs. Temperature

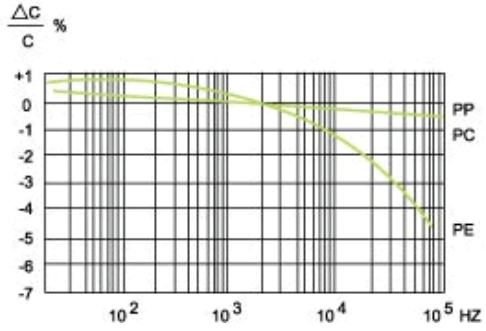


Operating voltage vs. Temperature

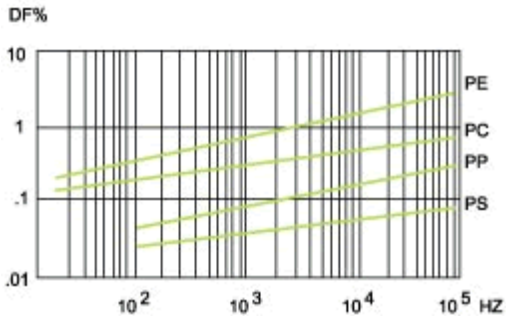


(CR value) IR vs. Temperature

3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency