



Guang Zhou Nan Cai Electronic CO.,LTD.
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規格承認書

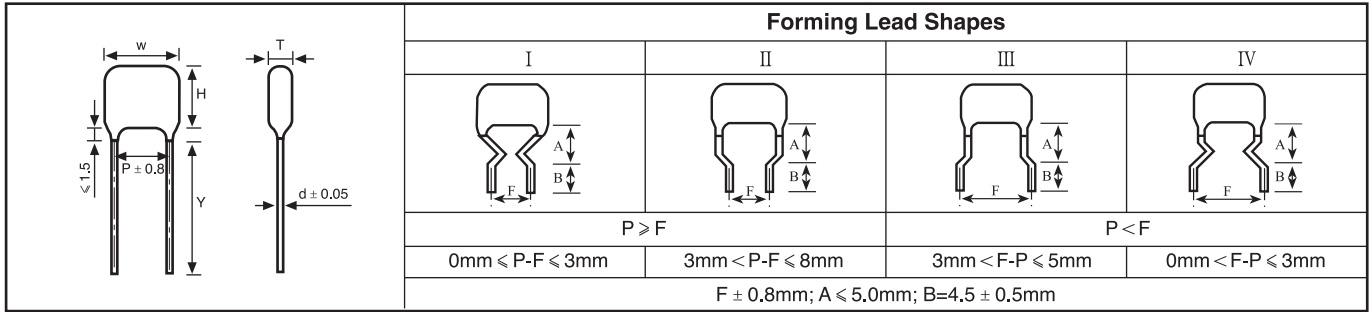
(SPECIFICATION FOR APPROVAL)

File No.: Q/BH .TS16949.13TECH1303

Product Name:	Metallized polyethylene naphthalate film high temperature capacitor (Dipped)
Product Type:	C91(CLN21 浸漬型)
Product Code:	C91
Customer:	
Customer Code:	
Issue Date:	(V3.0)

金属化聚萘乙酯膜高温电容器(浸渍型) Metallized polyethylene naphthalate film high temperature capacitor(Dipped)

■ 外形图 Outline Drawing



■ 特点

- 工作温度范围宽
- 自愈性好, 可靠性高
- 阻燃性环氧粉末包封
- 适用于高温工作场合

■ Features

- Wide range of working temperature
- Excellent self-healing property and reliability
- Flame retardant epoxy resin powder coating
- Applied in high temperature working condition.

■ 技术要求 Specifications

引用标准 Reference Standard	Q/FARA 040-2005				
气候类别 Climatic Category	55/150/56				
额定温度 Rated Temperature	125℃				
工作温度范围 Operating Temperature Range	-55℃~150℃ (+125℃ to +150℃: decreasing factor 1.25% per ℃ for U_R)				
额定电压 Rated Voltage	50/63/100V、250V、400V、630/700V、1 000V / 1 200V				
电容量范围 Capacitance Range	0.0010μF~1.0μF				
电容量偏差 Capacitance Tolerance	± 5%(J), ± 10%(K), ± 20%(M)				
耐电压 Voltage Proof	1.6 U_R (5s)				
损耗角正切 Dissipation Factor	≤ 0.7% (20℃, 1kHz)				
绝缘电阻 Insulation Resistance	$U_R < 100\text{V}$	≥ 15 000MΩ, $C_R \leq 0.33\mu\text{F}$ (20℃, 10V, 1min) ≥ 5 000s, $C_R > 0.33\mu\text{F}$			
	$U_R \geq 100\text{V}$	≥ 30 000MΩ, $C_R \leq 0.33\mu\text{F}$ (20℃, 100V, 1min) ≥ 10 000s, $C_R > 0.33\mu\text{F}$			
最大脉冲爬升速率 Maximum Pulse Rise Time (dV/dt): 若实际工作电压U比额定电压 U_R 低, 电容器可工作在更高的dV/dt场合。这样dV/dt允许值应为右表值乘以 U_R/U 。 If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	U_R (V)	dV/dt(V/μs)			
		P=5.0	P=7.5	P=10.0	P=15.0
	50/63/100	50	30	--	--
	250	--	130	90	50
	400	--	130	90	50
	630/700	--	300	--	--
1 000/1 200	--	400	250	--	

产品编码说明 Part number system

■ 18位产品代码如下:

The 18 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
C	9	1															

第1~3位	型号代码 C91= CLN21	Digit 1 to 3	Series code C91= CLN21
第4~5位	直流额定电压 1H=50V 1J=63V 2A=100V 2E=250V 2G=400V 2J=630V 1V=700V 3A=1 000V 3L=1 200V	Digit 4 to 5	DC rated voltage 1H=50V 1J=63V 2A=100V 2E=250V 2G=400V 2J=630V 1V=700V 3A=1 000V 3L=1 200V
第6~8位	标称容量 举例: 103=10 × 10 ³ pF=0.01μF	Digit 6 to 8	Rated capacitance value For example: 103=10 × 10 ³ pF=0.01μF
第9位	容量偏差 J= ± 5%, K= ± 10%, M= ± 20%	Digit 9	Capacitance tolerance J= ± 5%, K= ± 10%, M= ± 20%
第10位	引线脚距 P 2=5.0mm 3=7.5mm 4=10.0mm 6=15.0mm	Digit 10	Pitch 2=5.0mm 3=7.5mm 4=10.0mm 6=15.0mm
第11位	内部特征码	Digit 11	Internal use
第12~15位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code
第16~18位	内部特征码	Digit 16 to 18	Internal use

■ Table1 引线加工和包装代码 Lead form and packaging code

第12位 Digit 12		第13位 Digit 13		第14位 Digit 14		第15位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	2	F=5.0mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm,H=20.0mm (For pitch=5.0/7.5mm)
		3	F=7.5mm			E	P3=25.4mm, H=20.0mm (For pitch=10.0/15.0mm)
		4	F=10.0mm				(Detail parameter refer to pag 18)
6	F=15.0mm						
F	引线成型 lead kinked	2	F=5.0mm	0	B=4.5mm (the length of B)	0	B的长度偏差 ± 0.5mm B Length tolerance ± 0.5mm
		3	F=7.5mm				
		4	F=10.0mm				
		5	F=12.5mm				
		6	F=15.0mm				
Y	直脚 straight lead "Y" in the figure above	代码 Code	说明 explanation			0	引线长度偏差 ± 0.5mm Length tolerance ± 0.5mm
		45	引线长度 4.5mm lead length 4.5mm				

第12-15位代码为 "C000" 表示标准的引线长度(20mm~30mm)
Digit12-15 code "C000" means standard lead length (20mm~30mm)

■ 外形尺寸 Dimensions(mm)

50/63/100Vdc#						
C _R (μF)	W max	H max	T max	P	d	Part number
0.010	7.5	8.5	4.5	5.0	0.5	C911H103-20****+++
0.012	7.5	9.0	4.5	5.0	0.5	C911H123-20****+++
0.015	7.5	9.0	5.0	5.0	0.5	C911H153-20****+++
0.018	7.5	9.5	5.0	5.0	0.5	C911H183-20****+++
0.022	7.5	9.5	5.5	5.0	0.5	C911H223-20****+++
0.027	7.5	8.5	4.5	5.0	0.5	C911H273-20****+++
0.033	7.5	9.0	5.0	5.0	0.5	C911H333-20****+++
0.039	7.5	9.0	5.0	5.0	0.5	C911H393-20****+++
0.047	7.5	9.5	5.0	5.0	0.5	C911H473-20****+++
0.056	7.5	9.0	4.5	5.0	0.5	C911H563-20****+++
0.068	7.5	9.0	5.0	5.0	0.5	C911H683-20****+++
0.082	7.5	9.5	5.0	5.0	0.5	C911H823-20****+++
0.10	7.5	9.5	5.5	5.0	0.5	C911H104-20****+++
0.12	10.0	9.0	5.0	7.5	0.6	C911H124-30****+++
0.15	10.0	9.5	5.5	7.5	0.6	C911H154-30****+++
0.18	10.0	10.0	5.5	7.5	0.6	C911H184-30****+++
0.22	10.0	9.0	5.0	7.5	0.6	C911H224-30****+++
0.27	10.0	9.0	5.0	7.5	0.6	C911H274-30****+++
0.33	10.0	9.5	5.0	7.5	0.6	C911H334-30****+++
0.39	10.0	9.5	5.5	7.5	0.6	C911H394-30****+++
0.47	10.0	10.0	6.0	7.5	0.6	C911H474-30****+++
0.56	10.0	10.5	6.0	7.5	0.6	C911H564-30****+++
0.68	10.0	11.0	6.5	7.5	0.6	C911H684-30****+++
0.82	10.0	11.5	7.0	7.5	0.6	C911H824-30****+++
1.0	10.0	12.0	7.5	7.5	0.6	C911H105-30****+++

250Vdc						
C _R (μF)	W max	H max	T max	P	d	Part number
0.018	10.0	9.0	5.0	7.5	0.6	C912E183-30****+++
0.022	10.0	9.0	5.0	7.5	0.6	C912E223-30****+++
0.027	10.0	9.0	5.0	7.5	0.6	C912E273-30****+++
0.033	10.0	9.0	5.0	7.5	0.6	C912E333-30****+++
0.039	10.0	9.0	5.0	7.5	0.6	C912E393-30****+++
0.047	10.0	9.0	5.0	7.5	0.6	C912E473-30****+++
0.056	10.0	9.0	5.0	7.5	0.6	C912E563-30****+++
0.068	10.0	9.0	5.0	7.5	0.6	C912E683-30****+++
0.082	10.0	9.0	5.0	7.5	0.6	C912E823-30****+++
0.10	10.0	9.5	5.0	7.5	0.6	C912E104-30****+++
0.12	10.0	10.0	5.5	7.5	0.6	C912E124-30****+++
0.15	10.0	10.5	6.0	7.5	0.6	C912E154-30****+++
0.18	13.0	10.5	5.5	10.0	0.6	C912E184-40****+++
0.22	13.0	11.0	6.0	10.0	0.6	C912E224-40****+++
0.27	13.0	11.0	6.5	10.0	0.6	C912E274-40****+++
0.33	13.0	11.5	7.0	10.0	0.6	C912E334-40****+++
0.39	13.0	12.0	7.5	10.0	0.6	C912E394-40****+++
0.47	13.0	12.5	8.0	10.0	0.6	C912E474-40****+++
0.56	13.0	13.0	8.5	10.0	0.6	C912E564-40****+++
0.68	18.0	13.0	7.0	15.0	0.8	C912E684-60****+++
0.82	18.0	13.5	7.5	15.0	0.8	C912E824-60****+++
1.0	18.0	14.0	8.5	15.0	0.8	C912E105-60****+++

400Vdc						
C _R (μF)	W max	H max	T max	P	d	Part number
0.018	10.0	9.0	5.0	7.5	0.6	C912G183-30****+++
0.022	10.0	9.0	5.0	7.5	0.6	C912G223-30****+++
0.027	10.0	9.0	5.0	7.5	0.6	C912G273-30****+++
0.033	10.0	9.5	5.5	7.5	0.6	C912G333-30****+++
0.039	10.0	10.0	5.5	7.5	0.6	C912G393-30****+++
0.047	10.0	10.0	6.0	7.5	0.6	C912G473-30****+++
0.056	10.0	10.5	6.0	7.5	0.6	C912G563-30****+++
0.068	13.0	10.5	5.5	10.0	0.6	C912G683-40****+++
0.082	13.0	11.0	6.0	10.0	0.6	C912G823-40****+++
0.10	13.0	11.5	6.5	10.0	0.6	C912G104-40****+++
0.12	13.0	12.0	7.0	10.0	0.6	C912G124-40****+++
0.15	13.0	12.5	7.5	10.0	0.6	C912G154-40****+++
0.18	13.0	13.0	8.0	10.0	0.6	C912G184-40****+++
0.22	18.0	15.0	8.5	15.0	0.8	C912G224-60****+++
0.27	18.0	15.5	8.5	15.0	0.8	C912G274-60****+++
0.33	18.0	17.0	9.0	15.0	0.8	C912G334-60****+++

630/700Vdc#						
C _R (μF)	W max	H max	T max	P	d	Part number
0.0010	10.0	8.5	4.5	7.5	0.6	C912J102-30****+++
0.0012	10.0	8.5	4.5	7.5	0.6	C912J122-30****+++
0.0015	10.0	9.0	5.0	7.5	0.6	C912J152-30****+++
0.0018	10.0	9.0	5.0	7.5	0.6	C912J182-30****+++
0.0022	10.0	9.0	5.0	7.5	0.6	C912J222-30****+++
0.0027	10.0	9.0	5.0	7.5	0.6	C912J272-30****+++
0.0033	10.0	9.5	5.0	7.5	0.6	C912J332-30****+++
0.0039	10.0	9.5	5.5	7.5	0.6	C912J392-30****+++
0.0047	10.0	9.0	5.0	7.5	0.6	C912J472-30****+++
0.0056	10.0	9.0	5.0	7.5	0.6	C912J562-30****+++
0.0068	10.0	9.5	5.5	7.5	0.6	C912J682-30****+++
0.0082	10.0	9.5	5.5	7.5	0.6	C912J822-30****+++
0.010	10.0	10.0	6.0	7.5	0.6	C912J103-30****+++

1 000/1 200Vdc#						
C _R (μF)	W max	H max	T max	P	d	Part number
0.0010	10.0	8.5	4.5	7.5	0.6	C913A102-30****+++
0.0012	10.0	8.5	4.5	7.5	0.6	C913A122-30****+++
0.0015	10.0	9.0	5.0	7.5	0.6	C913A152-30****+++
0.0018	10.0	9.0	5.0	7.5	0.6	C913A182-30****+++
0.0022	10.0	9.5	5.0	7.5	0.6	C913A222-30****+++
0.0027	10.0	9.5	5.5	7.5	0.6	C913A272-30****+++
0.0033	10.0	10.0	6.0	7.5	0.6	C913A332-30****+++
0.0039	10.0	10.0	6.0	7.5	0.6	C913A392-30****+++
0.0047	13.0	10.0	6.0	10.0	0.6	C913A472-40****+++
0.0056	13.0	10.5	6.0	10.0	0.6	C913A562-40****+++
0.0068	13.0	10.5	6.5	10.0	0.6	C913A682-40****+++
0.0082	13.0	11.0	7.0	10.0	0.6	C913A822-40****+++
0.010	13.0	11.5	7.5	10.0	0.6	C913A103-40****+++

备注: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M= ± 20%,K= ± 10%,J= ± 5%
 2. “****”表示引线加工和包装代码(见table 1)。“****”=lead form and packaging code(refer to table 1)
 3. “#”当额定电压为63Vdc,100Vdc,700Vdc,1 200Vdc时,第4~5位是1J, 2A, 1V, 3L。
 “#” when the rated voltage is 63Vdc,100Vdc,700Vdc,1 200Vdc, the digit 4~5 is 1J,2A,1V,3L respectively.