

SPECIFICATION FOR APPROVAL
METALLIZED POLYPROPYLENE FILM CAPACITOR (MPX)

Customer: _____

品 名
Part Name: _____ X2 薄膜电容器

客户料号
Customer Part No: _____

承認規格
Approve Item: _____ X2 -473K/310VAC C2 P=10mm

供应商料号
Part Number: _____ JX473K2FC2X1S1020

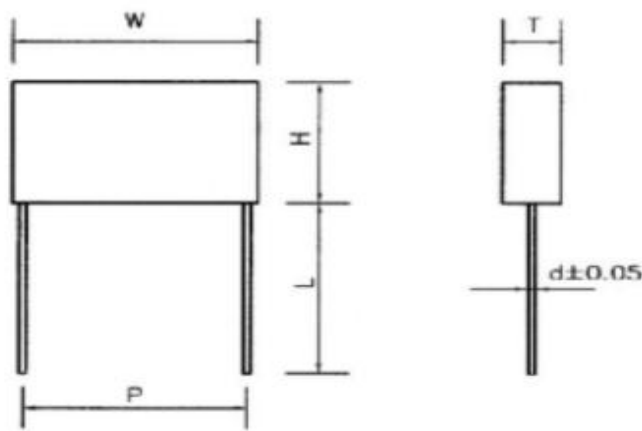
日 期
Date: _____ 2024-7-8

客户承认 Customer approval	供应商承认 Supplier admit that 
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规格目录中所列的产品，材料和尺寸其他内容如有更改，恕不另行通知。

Specifications of products, materials and dimensions listed in the specification catalog are subject to change without prior notice.

1.规格尺寸
Specification & Dimensions



品名规格 Specification	外形尺寸（单位：mm）Dimensions and Drawings						备注
	W±1	H±1	T±1	P±1	L±1	d±0.05	
473K/310VAC	13.0	11.0	5.0	10.0	20.0	0.6	

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- 1 类别 Type
- 2 容量 Capacitance
- 3 误差 Tolerance
- 4 电压 Voltage
- 5 盒子 Box
- 6 脚型 Lead Type
- 7 脚距 Pitch
- 8 脚长 Lead Length

2.料号说明：例：334K/310V D4 料号：JX334K2FD4XXS1520

2-1 类别 Tape

代号 Code	JD	JY	JX	JR	J1	J2	J3
内容	AC 安规陶 瓷 Y1	AC 安规陶 瓷 Y 2	AC 安规薄 膜 X 2	压敏电阻	温度补偿 型 I III	高介电常 数型 II	半导体型 III

2-2 容量 Capacitance （单位：PF）

代号 Code	0R5	010	100	101	102	222	103	104	224	105	225
内容	0.5PF	1PF	10PF	100PF	1000PF	2200PF	10000PF	100NF	220NF	1UF	2.2UF

1000PF=1NF 1000NF=1UF

2-3 误差 Tolerance

代号 Code	D	J	K	L	M	N	P	Z
内容	0.5P	±5%	±10%	±15%	±20%	±30%	+100%- 20%	+20%- 80%

2-4 电压 Rated Voltage

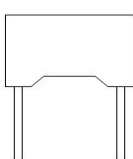
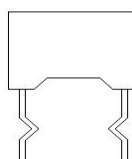
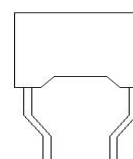
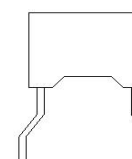
代号 Code	2G	2H	2E	2F	2J	3H	3J	3K	4A
电压	400VAC	500VAC	275VAC	310VAC	630V	5KV	6KV	8KV	10KV

2-5 盒子尺寸代号 BOX TYPE

Code	B3	C2	C3	C4
Size(mm)	10(W)×4(T)×9(H)	12(W)×5(T)×11(H)	13(W)×6(T)×12(H)	13(W)×7(T)×13(H)
Code	D1	D2	D3	D4
Size(mm)	18(W)×5(T)×11(H)	18(W)×6(T)×12(H)	18(W)×7.5(T)×13.5(H)	18(W)×8.4(T)×14.5(H)
Code	B4	B5	E2	E3
Size(mm)	10(W)×5(T)×10(H)	10(W)×6(T)×12(H)	26.5(W)×7(T)×16.5(H)	26.5(W)×8.5(T)×17(H)
Code	E4	F1	F2	C5-1
Size(mm)	26.5(W)×10(T)×19(H)	31.4(W)×11(T)×20(H)	31.5(W)×13(T)×21.6(H)	13(W)×8(T)×14(H)

注：四码格式，不足的用 X 代替。Note: Four-code format. X instead for insufficient ones.

2-6 脚型 mm Lead forming

Code	S	I	U	W	T	S
Lead Forming					TAPING	Customer Special Require

2-7 脚距 mm Lead Pitch

Code	08	10	15	23	28	31
Pitch(mm)	7.5mm	10mm	15mm	22.5mm	27.5mm	31mm

2-8 脚长 mm Lead length

Code	04	08	10	15	20	30	40
Length (mm)	4mm	8mm	10mm	15mm	20mm	30mm	40mm

3.印字 Marking

 JEC	商标和公司名称 Trademark or Company name		
0.1UF	静电容量 CAPACITANCE		
K	允许误差 CAPACITANCE TOLERANCE		
250/275/300/ 305/310VAC	额定电压 RATED VOLTAGE		
X2	产品类别 BOX-TYPE METALLIZED POLYPROPYLENE FILM		
40/110/56/B	气候类别 Climatic Category Lowest Working Temperature (-40°C) Highest Working Temperature(+110°C) Working Times (56days)	Class: B	阻燃等级 Passive Flammabilit
		IEC 60384-14	产品认证标准 Approval standard

4.认证 Approvals

认证国家 Country	认证标志 Certification Logo	认证标准 Certification Standard	证书号码 Certificate No.	额定电压 Rated Voltage
中国安规认证		IEC 60384-14	CQC16001151103	310VAC 305VAC 300VAC 275VAC 250VAC
美国安规认证		UL 60384-14	E356696	
欧盟安规认证 德国安规认证		IEC 60384-14	40044985	
韩国安规认证		KC 60384-14	SU03096-17001A (0.0022uF-0.1uF)	
			SU03096-17002A (0.15uF-0.33uF)	
			SU03096-17003A (0.47uF-1.0uF)	
			SU03096-17004A (1.2uF-2.2uF)	

5.Dimensions:

CAPACITOR BODY SIZE (Unit:mm)							
CAP	RV	BOX TYPE	W±1	H±1	T±1	P±1	PART NO
222K	310VAC	C2-1	13.0	11.0	5.0	10	JX222K2FC2X1S1020
332K	310VAC	C2-1	13.0	11.0	5.0	10	JX332K2FC2X1S1020
472K	310VAC	C2-1	13.0	11.0	5.0	10	JX472K2FC2X1S1020
562K	310VAC	C2-1	13.0	11.0	5.0	10	JX562K2FC2X1S1020
682K	310VAC	C2-1	13.0	11.0	5.0	10	JX682K2FC2X1S1020
103K	310VAC	B3	10.0	9.0	4.0	7.5	JX103K2FB3XXS0820
103K	310VAC	B4	10.0	11.0	5.0	7.5	JX103K2FB4XXS0820
103K	310VAC	C1	13.0	9.0	4.0	10	JX103K2FC1XXS1020
103K	310VAC	C2-1	13.0	11.0	5.0	10	JX103K2FC2X1S1020
103K	310VAC	D1	18.0	11.0	5.0	15	JX103K2FD1XXS1520
123K	310VAC	C2-1	13.0	11.0	5.0	10	JX123K2FC2X1S1020
153K	310VAC	C2-1	13.0	11.0	5.0	10	JX153K2FC2X1S1020
223K	310VAC	B3	10.0	9.0	4.0	7.5	JX223K2FB3XXS0820
223K	310VAC	B4	10.0	11.0	5.0	7.5	JX223K2FB4XXS0820
223K	310VAC	C2-1	13.0	11.0	5.0	10	JX223K2FC2X1S1020
223K	310VAC	D1	18.0	11.0	5.0	15	JX223K2FD1XXS1520
333K	310VAC	B3	10.0	9.0	4.0	7.5	JX333K2FB3XXS0820
333K	310VAC	B4	10.0	11.0	5.0	7.5	JX333K2FB4XXS0820
333K	310VAC	C2-1	13.0	11.0	5.0	10	JX333K2FC2X1S1020
333K	310VAC	D1	18.0	11.0	5.0	15	JX333K2FD1XXS1520
473K	310VAC	B3	10.0	9.0	4.0	7.5	JX473K2FB3XXS0820
473K	310VAC	B4	10.0	11.0	5.0	7.5	JX473K2FB4XXS0820
473K	310VAC	B5	10.0	12.0	6.0	7.5	JX473K2FB5XXS0820
473K	310VAC	C2-1	13.0	11.0	5.0	10	JX473K2FC2X1S1020
473K	310VAC	C3	13.0	12.0	6.0	10	JX473K2FC3XXS1020
473K	310VAC	D1	18.0	11.0	5.0	15	JX473K2FD1XXS1520

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CAP	RV	BOX TYPE	W±1	H±1	T±1	P±1	PART NO
683K	310VAC	B4	10.0	11.0	5.0	7.5	JX683K2FB4XXS0820
683K	310VAC	C2-1	13.0	11.0	5.0	10	JX683K2FC2X1S1020
683K	310VAC	C3	13.0	12.0	6.0	10	JX683K2FC3XXS1020
683K	310VAC	D1	18.0	11.0	5.0	15	JX683K2FD1XXS1520
104K	310VAC	B3	10.0	9.0	4.0	7.5	JX104K2FB3XXS0820
104K	310VAC	B4	10.0	11.0	5.0	7.5	JX104K2FB4XXS0820
104K	310VAC	B5	10.0	12.0	6.0	7.5	JX104K2FB5XXS0820
104K	310VAC	C2-1	13.0	11.0	5.0	10	JX104K2FC2X1S1020
104K	310VAC	C3	13.0	12.0	6.0	10	JX104K2FC3XXS1020
104K	310VAC	C5	13.0	14.0	8.0	10	JX104K2FC5X1S1020
104K	310VAC	C5-1	13.0	15.0	8.5	10	JX104K2FC5X1S1020
104K	310VAC	D1	18.0	11.0	5.0	15	JX104K2FD1XXS1520
104K	310VAC	D2	18.0	12.0	6.0	15	JX104K2FD2XXS1520
124K	310VAC	D2	18.0	12.0	6.0	15	JX124K2FD2XXS1520
154K	310VAC	B5	10.0	12.0	6.0	7.5	JX154K2FB5XXS0820
154K	310VAC	C3	13.0	12.0	6.0	10	JX154K2FC3XXS1020
154K	310VAC	C4	13.0	13.0	7.0	10	JX154K2FC4XXS1020
154K	310VAC	D1	18.0	11.0	5.0	15	JX154K2FD1XXS1520
154K	310VAC	D2	18.0	12.0	6.0	15	JX154K2FD2XXS1520
154K	310VAC	D2-1	18.0	13.5	6.0	15	JX154K2FD2X1S1520
154K	310VAC	E1	26.5	15.0	6.0	15	JX154K2FE1XXS1520
224K	310VAC	B5	10.0	12.0	6.0	7.5	JX224K2FB5XXS0820
224K	310VAC	C3	13.0	12.0	6.0	10	JX224K2FC3XXS1020
224K	310VAC	C5	13.0	14.0	8.0	10	JX224K2FC5X1S1020
224K	310VAC	C5-1	13.0	15.0	8.5	10	JX224K2FC5X1S1020
224K	310VAC	D2	18.0	12.0	6.0	15	JX224K2FD2XXS1520
224K	310VAC	D2-7	18.0	13.0	6.3	15	JX224K2FD2X7S1520
224K	310VAC	D3	18.0	13.5	7.5	15	JX224K2FD3XXS1520
224K	310VAC	D4	18.0	14.5	8.5	15	JX224K2FD4XXS1520
224K	310VAC	E2	26.5	16.5	7.0	22.5	JX224K2FE2XXS2320
274K	310VAC	D4	18.0	14.5	8.5	15	JX274K2FD4XXS1520
334K	310VAC	C5-1	13.0	14.0	8.0	10	JX334K2FC5X1S1020

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CAP	RV	BOX TYPE	W±1	H±1	T±1	P±1	PART NO
334K	310VAC	C9	12.5	16.5	10.5	10	JX334K2FC9XXS1020
334K	310VAC	D2	18.0	12.0	6.0	15	JX334K2FD2XXS1520
334K	310VAC	D2-7	18.0	13.0	6.3	15	JX334K2FD2X7S1520
334K	310VAC	D3	18.0	13.5	7.5	15	JX334K2FD3XXS1520
334K	310VAC	D4	18.0	14.5	8.5	15	JX334K2FD4XXS1520
334K	310VAC	D5	18.0	16.0	10.0	15	JX334K2FD5XXS1520
334K	310VAC	E1	26.5	15.0	6.0	22.5	JX334K2FE1XXS2320
334K	310VAC	E2	26.5	16.5	7.0	22.5	JX334K2FE2XXS2320
334K	310VAC	E3	26.5	17.0	8.5	22.5	JX334K2FE3XXS2320
474K	310VAC	C5	13.0	14.0	8.0	10	JX474K2FC5X1S1020
474K	310VAC	C5-1	13.0	15.0	8.5	10	JX474K2FC5X1S1020
474K	310VAC	D3	18.0	13.5	7.5	15	JX474K2FD3XXS1520
474K	310VAC	D4	18.0	14.5	8.5	15	JX474K2FD4XXS1520
474K	310VAC	D5	18.0	16.0	10.0	15	JX474K2FD5XXS1520
474K	310VAC	D7	18.0	19.0	11.0	15	JX474K2FD7XXS1520
474K	310VAC	E2	26.5	16.5	7.0	22.5	JX474K2FE2XXS2320
474K	310VAC	E3	26.5	17.0	8.5	22.5	JX474K2FE3XXS2320
474K	310VAC	E4	26.5	19.0	10.0	22.5	JX474K2FE4XXS2320
564K	310VAC	D5	18.0	16.0	10.0	15	JX564K2FD5XXS1520
564K	310VAC	D7	18.0	19.0	11.0	15	JX564K2FD7XXS1520
564K	310VAC	E3	26.5	17.0	8.5	22.5	JX564K2FE3XXS2320
564K	310VAC	E4	26.5	19.0	10.0	22.5	JX564K2FE4XXS2320
684K	310VAC	D3-1	18.0	17.5	6.0	15	JX684K2FD3XXS1520
684K	310VAC	D4	18.0	14.5	8.5	15	JX684K2FD4XXS1520
684K	310VAC	D5	18.0	16.0	10.0	15	JX684K2FD5XXS1520
684K	310VAC	D7	18.0	19.0	11.0	15	JX684K2FD7XXS1520
684K	310VAC	E2	26.5	16.5	7.0	22.5	JX684K2FE2XXS2320
684K	310VAC	E3	26.5	17.0	8.5	22.5	JX684K2FE3XXS2320
684K	310VAC	E4	26.5	19.0	10.0	22.5	JX684K2FE4XXS2320
684K	310VAC	F1	31.0	19.5	10.8	27.5	JX684K2FF1XXS2820

CAP	RV	BOX TYPE	W±1	H±1	T±1	P±1	PART NO
824K	310VAC	D7	18.0	19.0	10.8	15	JX824K2FD7XXS1520
824K	310VAC	E3	26.5	17.0	8.5	22.5	JX824K2FE3XXS2320
824K	310VAC	E4	26.5	19.0	10.0	22.5	JX824K2FE4XXS2320
824K	310VAC	E5	26.5	20	11.0	22.5	JX824K2FE5XXS2320
105K	310VAC	D5	18.0	16.0	10.0	15	JX105K2FD5XXS1520
105K	310VAC	D7	18.0	19.0	10.8	15	JX105K2FD7XXS1520
105K	310VAC	D8	17.3	19.2	11.2	15	JX105K2FD8XXS1520
105K	310VAC	E3	26.5	17.0	8.5	22.5	JX105K2FE3XXS2320
105K	310VAC	E4	26.5	19.0	10.0	22.5	JX105K2FE4XXS2320
105K	310VAC	E5	26.0	20.0	11.0	22.5	JX105K2FE5XXS2320
105K	310VAC	E6	26.5	21.5	12.0	22.5	JX105K2FE6XXS2320
105K	310VAC	F1	31.0	19.5	10.8	27.5	JX105K2FF1XXS2820
105K	310VAC	F2	32.0	21.0	13.0	27.5	JX105K2FF2XXS2820
125K	310VAC	E4	26.5	19.0	10.0	22.5	JX125K2FE4XXS2320
125K	310VAC	E6	26.0	21.5	12.0	22.5	JX125K2FE6XXS2320
125K	310VAC	F1	31.0	19.5	10.8	27.5	JX125K2FF1XXS2820
125K	310VAC	F2	31.5	21.6	13.0	27.5	JX125K2FF2XXS2820
125K	310VAC	F3	31.5	25.0	14.0	27.5	JX125K2FF3XXS2820
155K	310VAC	D7	18.0	19.0	10.8	15	JX155K2FD7XXS1520
155K	310VAC	E5	26.0	20.0	11.0	22.5	JX155K2FE5XXS2320
155K	310VAC	E6	26.0	21.5	12.0	22.5	JX155K2FE6XXS2320
155K	310VAC	F1	31.0	20.0	11.0	27.5	JX155K2FF1XXS2820
155K	310VAC	F2	31.5	21.6	13.0	27.5	JX155K2FF2XXS2820
155K	310VAC	F4	32.0	25.5	16.0	27.5	JX155K2FF4XXS2820
185K	310VAC	F13	32.0	28.0	18.0	27.5	JX185K2FF13XXS2820
205K	310VAC	E6	26.0	21.5	12.0	22.5	JX205K2FE6XXS2320
205K	310VAC	F13	32.0	28.0	18.0	27.5	JX205K2FF13XXS2820
225K	310VAC	E7	26.5	23.0	13.0	22.5	JX225K2FE7XXS2320

CAPACITOR BODY SIZE (Unit:mm)							
CAP	RV	BOX TYPE	W±1	H±1	T±1	P±1	PART NO
225K	310VAC	F2	31.5	21.6	13.0	27.5	JX225K2FF2XXS2820
225K	310VAC	F4	32.0	25.5	16.0	27.5	JX225K2FF4XXS2820
225K	310VAC	F13	32.0	28.0	18.0	27.5	JX225K2FF13XXS2820
222K	275VAC	C2-1	13.0	11.0	5.0	10	JX222K2EC2X1S1020
332K	275VAC	C2-1	13.0	11.0	5.0	10	JX332K2EC2X1S1020
472K	275VAC	C2-1	13.0	11.0	5.0	10	JX472K2EC2X1S1020
562K	275VAC	C2-1	13.0	11.0	5.0	10	JX562K2EC2X1S1020
682K	275VAC	C2-1	13.0	11.0	5.0	10	JX682K2EC2X1S1020
103K	275VAC	B3	10.0	9.0	4.0	7.5	JX103K2EB3XXS0820
103K	275VAC	B4	10.0	11.0	5.0	7.5	JX103K2EB4XXS0820
103K	275VAC	C2-1	13.0	11.0	5.0	10	JX103K2EC2X1S1020
103K	275VAC	D1	18.0	11.0	5.0	15	JX103K2ED1XXS1520
123K	275VAC	C2-1	13.0	11.0	5.0	10	JX123K2EC2X1S1020
153K	275VAC	C2-1	13.0	11.0	5.0	10	JX153K2EC2X1S1020
223K	275VAC	B3	10.0	9.0	4.0	7.5	JX223K2EB3XXS0820
223K	275VAC	B4	10.0	11.0	5.0	7.5	JX223K2EB4XXS0820
223K	275VAC	C2-1	13.0	11.0	5.0	10	JX223K2EC2X1S1020
223K	275VAC	D1	18.0	11.0	5.0	15	JX223K2ED1XXS1520
333K	275VAC	B3	10.0	9.0	4.0	7.5	JX333K2EB3XXS0820
333K	275VAC	B4	10.0	11.0	5.0	7.5	JX333K2EB4XXS0820
333K	275VAC	C2-1	13.0	11.0	5.0	10	JX333K2EC2X1S1020
333K	275VAC	D1	18.0	11.0	5.0	15	JX333K2ED1XXS1520
473K	275VAC	B3	10.0	9.0	4.0	7.5	JX473K2EB3XXS0820
473K	275VAC	B4	10.0	11.0	5.0	7.5	JX473K2EB4XXS0820
473K	275VAC	B5	10.0	12.0	6.0	7.5	JX473K2EB5XXS0820

JYH HSU (JEC) ELECTRONICS LTD. ,

CAP	RV	BOX TYPE	W±1	H±1	T±1	P±1	PART NO
473K	275VAC	C2-1	13.0	11.0	5.0	10	JX473K2EC2X1S1020
473K	275VAC	C3	13.0	12.0	6.0	10	JX473K2EC3XXS1020
473K	275VAC	D1	18.0	11.0	5.0	15	JX473K2ED1XXS1520
683K	275VAC	B4	10.0	11.0	5.0	7.5	JX683K2EB4XXS0820
683K	275VAC	C2-1	13.0	11.0	5.0	10	JX683K2EC2X1S1020
683K	275VAC	C3	13.0	12.0	6.0	10	JX683K2EC3XXS1020
683K	275VAC	D1	18.0	11.0	5.0	15	JX683K2ED1XXS1520
104K	275VAC	B4	10.0	11.0	5.0	7.5	JX104K2EB4XXS0820
104K	275VAC	C2-1	13.0	11.0	5.0	10	JX104K2EC2X1S1020
104K	275VAC	C3	13.0	12.0	6.0	10	JX104K2EC3XXS1020
104K	275VAC	D1	18.0	11.0	5.0	15	JX104K2ED1XXS1520
104K	275VAC	D2	18.0	12.0	6.0	15	JX104K2ED2XXS1520
154K	275VAC	B5	10.0	12.0	6.0	7.5	JX154K2EB5XXS0820
154K	275VAC	C3	13.0	12.0	6.0	10	JX154K2EC3XXS1020
154K	275VAC	C4	13.0	13.0	7.0	10	JX154K2EC4XXS1020
154K	275VAC	D1	18.0	11.0	5.0	15	JX154K2ED1XXS1520
154K	275VAC	D2	18.0	12.0	6.0	15	JX154K2ED2XXS1520
154K	275VAC	D3	18.0	13.5	7.5	15	JX154K2ED3XXS1520
224K	275VAC	B5	10.0	12.0	6.0	7.5	JX224K2EB5XXS0820
224K	275VAC	C3	13.0	12.0	6.0	10	JX224K2EC3XXS1020
224K	275VAC	C5-1	13.0	14.0	8.0	10	JX224K2EC5X1S1020
224K	275VAC	D2	18.0	12.0	6.0	15	JX224K2ED2XXS1520
224K	275VAC	D2-7	18.0	13.0	6.3	15	JX224K2ED2X7S1520
224K	275VAC	D3	18.0	13.5	7.5	15	JX224K2ED3XXS1520
224K	275VAC	D4	18.0	14.5	8.4	15	JX224K2ED4XXS1520
224K	275VAC	E2	26.5	16.5	7.0	22.5	JX224K2EE2XXS2320
334K	275VAC	C5-1	13.0	14.0	8.0	10	JX334K2EC5X1S1020

JYH HSU (JEC)ELECTRONICS LTD. ,

CAP	RV	BOX TYPE	W±1	H±1	T±1	P±1	PART NO
334K	275VAC	C9	12.5	16.5	10.5	10	JX334K2EC9XXS1020
334K	275VAC	D2	18.0	12.0	6.0	15	JX334K2ED2XXS1520
334K	275VAC	D2-7	18.0	13.0	6.3	15	JX334K2ED2X7S1520
334K	275VAC	D3	18.0	13.5	7.5	15	JX334K2ED3XXS1520
334K	275VAC	D4	18.0	14.5	8.5	15	JX334K2ED4XXS1520
334K	275VAC	D5	18.0	16.0	10.0	15	JX334K2ED5XXS1520
334K	275VAC	E2	26.5	16.5	7.0	22.5	JX334K2EE2XXS2320
334K	275VAC	E3	26.5	17.0	8.5	22.5	JX334K2EE3XXS2320
474K	275VAC	C5	13.0	14.0	8.0	10	JX474K2EC5X1S1020
474K	275VAC	C5-1	13.0	15.0	8.5	10	JX474K2EC5X1S1020
474K	275VAC	C9	12.5	16.5	10.5	10	JX474K2EC9XXS1020
474K	275VAC	D3	18.0	13.5	7.5	15	JX474K2ED3XXS1520
474K	275VAC	D4	18.0	14.5	8.5	15	JX474K2ED4XXS1520
474K	275VAC	D5	18.0	16.0	10.0	15	JX474K2ED5XXS1520
474K	275VAC	D7	18.0	19.0	10.8	15	JX474K2ED7XXS1520
474K	275VAC	E1	26.5	15.0	6.0	22.5	JX474K2EE1XXS2320
474K	275VAC	E2	26.5	16.5	7.0	22.5	JX474K2EE2XXS2320
474K	275VAC	E3	26.5	17.0	8.5	22.5	JX474K2EE3XXS2320
474K	275VAC	E4	26.5	19.0	10.0	22.5	JX474K2EE4XXS2320
564K	275VAC	D5	18.0	16.0	10.0	15	JX564K2ED5XXS1520
564K	275VAC	D7	18.0	19.0	10.8	15	JX564K2ED7XXS1520
564K	275VAC	E3	26.5	17.0	8.5	22.5	JX564K2EE3XXS2320
564K	275VAC	E4	26.5	19.0	10.0	22.5	JX564K2EE4XXS2320
684K	275VAC	D4	18.0	14.5	8.5	15	JX684K2ED4XXS1520
684K	275VAC	D5	18.0	16.0	10.0	15	JX684K2ED5XXS1520
684K	275VAC	D7	18.0	19.0	10.8	15	JX684K2ED7XXS1520
684K	275VAC	E2	26.5	16.5	7.0	22.5	JX684K2EE2XXS2320

JYH HSU (JEC) ELECTRONICS LTD. ,

CAP	RV	BOX TYPE	W±1	H±1	T±1	P±1	PART NO
684K	275VAC	E3	26.5	17.0	8.5	22.5	JX684K2EE3XXS2320
684K	275VAC	E4	26.5	19.0	10.0	22.5	JX684K2EE4XXS2320
684K	275VAC	F1	31.4	19.5	10.8	27.5	JX684K2EF1XXS2820
824K	275VAC	D7	18.0	19.0	10.8	15	JX824K2ED7XXS1520
824K	275VAC	E3	26.5	17.0	8.5	22.5	JX824K2EE3XXS2320
824K	275VAC	E4	26.5	19.0	10.0	22.5	JX824K2EE4XXS2320
105K	275VAC	D7	18.0	19.0	10.8	15	JX105K2ED7XXS1520
105K	275VAC	D8	17.3	19.2	11.2	15	JX105K2ED8XXS1520
105K	275VAC	E3	26.5	17.0	8.5	22.5	JX105K2EE3XXS2320
105K	275VAC	E4	26.5	19.0	10.0	22.5	JX105K2EE4XXS2320
105K	275VAC	E6	26.0	21.5	12.0	22.5	JX105K2EE6XXS2320
105K	275VAC	F1	31.4	19.5	10.8	27.5	JX105K2EF1XXS2820
105K	275VAC	F2	31.5	21.6	13.0	27.5	JX105K2EF2XXS2820
125K	275VAC	E4	26.5	19.0	10.0	22.5	JX125K2EE4XXS2320
125K	275VAC	E6	26.0	21.5	12.0	22.5	JX125K2EE6XXS2320
125K	275VAC	F1	31.4	19.5	10.8	27.5	JX125K2EF1XXS2820
125K	275VAC	F2	31.5	21.6	13.0	27.5	JX125K2EF2XXS2820
155K	275VAC	D7	18.0	19.0	10.8	15	JX155K2ED7XXS1520
155K	275VAC	E4	26.5	19.0	10.0	22.5	JX155K2EE4XXS2320
155K	275VAC	E5	26.0	20.0	11.0	22.5	JX155K2EE5XXS2320
155K	275VAC	E6	26.0	21.5	12.0	22.5	JX155K2EE6XXS2320
155K	275VAC	F1	31.0	20.0	11.0	27.5	JX155K2EF1XXS2820
155K	275VAC	F2	31.5	21.6	13.0	27.5	JX155K2EF2XXS2820
205K	275VAC	E6	26.0	21.5	12.0	22.5	JX205K2EE6XXS2320
225K	275VAC	E7	26.5	23.0	13.0	22.5	JX225K2EE7XXS2320
225K	275VAC	E4	26.5	19.0	10.0	22.5	JX225K2EE4XXS2320
225K	275VAC	F2	31.5	21.6	13.0	27.5	JX225K2EF2XXS2820
225K	275VAC	F13	32.0	28.0	18.0	27.5	JX225K2EF13XS2820

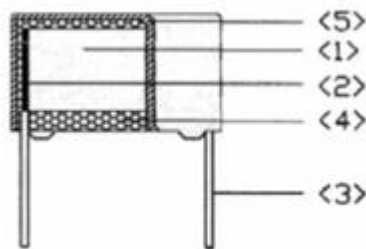
6.产品介绍

Products Introduction

MPX 电容器由薄金属化聚丙烯构成，缠绕无感应结构；导线采用镀铜钢丝，外部用阻燃塑料外壳和阻燃环氧树脂封装。它具有良好的自愈功能和良好的阻燃性，符合 UL94-V0 标准。The MPX capacitor is made of thin metallized polypropylene, wound with a non-inductive structure; the lead is made of tinned copper clad steel wire, and the outside is encapsulated with a flame-retardant plastic shell and flame-retardant epoxy. It has good self-healing function and excellent flame retardancy, in line with UL94-V0 standard.

7.产品结构和关键材料

Construction and main materials of products



No.	关键材料 Main Materials	材料规格 Specification	备注 Remark
1	金属化聚丙烯薄膜 Metallized Polypropylene Film	MPPZAH(5~12um)	
2	锌锡层Zn,Sn line	锌或锌锡合金Zn or Zn and Sn alloy	镀锡层厚度 7um以上
3	导线 Terminal	镀锡铜包钢线(Φ0. 6 or 0. 8mm) CP(tinned copper wire leads)	
4	封装材料 Sealed Material	环氧树脂 Epoxy resin	UL94-V0 UL94-V0
5	塑胶外壳 Plastic Case	PBT	

注： 以上材料均符合环保要求
Note:All of the Materials are in compliance with the requirements of ROHS AND REACH.

8.典型应用

Type application

本产品广泛应用于电磁干扰和电源连接电路的抑制，特别适用于抑制串联、并联电路干扰用，使用电容器失效后不会引起电击的危险情况。
This product is widely used in the suppression of electromagnetic interference and power supply connection circuits, especially for the suppression of series and parallel circuit interference, to avoid dangerous situation such as electric shock after the capacitor fails.

9.特点

Features

- 9. 1无感结构 Non-inductive structure
- 9. 2优良的耐湿性 High moisture-resistance
- 9. 3自愈性 Self-healing property
- 9. 4阻燃性(符合UL94V- 0) Flame retardant type (compliance with UL94V-0)
- 9. 5非常小的损耗 Very small loss
- 9. 6优秀的频率和温度特性 Excellent frequency and temperature characteristics
- 9. 7高绝缘阻值 High insulation resistance

10.电气特性

Electric Characteristics

如无其他说明, 电气特性请参考 IEC 60384- 14

Unless otherwise specified, electric characteristics shall refer to IEC 60384-14

项目 Item	特性要求 Characteristic requirement					测试方法及条件 Test method&Condition
气候类别 Climatic Category	40/ 110/ 56					
阻燃等级 Flame Retardant Rating	B					
工作温度 Operating Temperature	- 40℃ ~ +110℃					
容量范围 Capacitance Range	0. 0022uF ~ 2. 2uF					1KHz , 1.0Vrms , 20℃
容量偏差 Capacitance Tolerance	±10%(K)					
额定电压 Rated Voltage	250VAC/ 275VAC/ 300VAC/ 305VAC/ 310VAC					
损耗角正切 Dissipation Factor	$C \leq 0.47 \mu F$ $0.47 \mu F < C \leq 1.0 \mu F$ $C > 1.0 \mu F$ 1KHZ 0.10% 0.10% 0.10% 10KHZ 0.20% 0.40% 0.80% 100KHZ 0.60%					1KHz , 1.0Vrms , 20℃
绝缘阻值 Insulation Resistance	$C \leq 0.33 \mu F$ $C \geq 0.33 \mu F$ $IR \geq 15000 M\Omega$ $IR \geq 5000s$ or $\geq 5000 M\Omega \cdot \mu F$					Ur > 100V, 100VDC, 60S, 20℃
端子间电压 Withstand Voltage Between Terminals	应无永久性击穿或飞弧 No permanent breakdown or flashover					4.3Ur(d.c) 60s 2100vdc 1s($C \leq 1.0 \mu F$) 1800vdc 2s($C \geq 1.0 \mu F$) Cut off Current 10mA , , ARC=OFF, Voltage raising time 5~10s, pulse rise $\leq 150v/us$
端子与壳体间耐压 Withstand voltage Between Terminals and Case	应无永久性击穿或飞弧 No permanent breakdown or flashover					2Ur+1500V(a.c) 60s $\geq 2000V(a.c)$
最大脉冲上升时间 MAX. Pulse rise time (dv/dt)	Lead spacing					
	7.5mm	10mm	15mm	22.5mm	27.5mm	
	600V/us	500V/us	400V/us	200V/us	150V/us	

注：额定电压定义：在工作温度范围内，电容持续运行的可承受电压。

请不要将电容置于超过额定温度环境中长期工作，会降低使用寿命或发生电击危险。

Note: The definition of rated voltage: the voltage that the capacitor can withstand during continuous operation within the operating temperature range.

Please do not put the capacitor in an environment with a temperature exceeding the rated temperature for long-term operation, which will reduce the service life or cause the risk of electric shock.

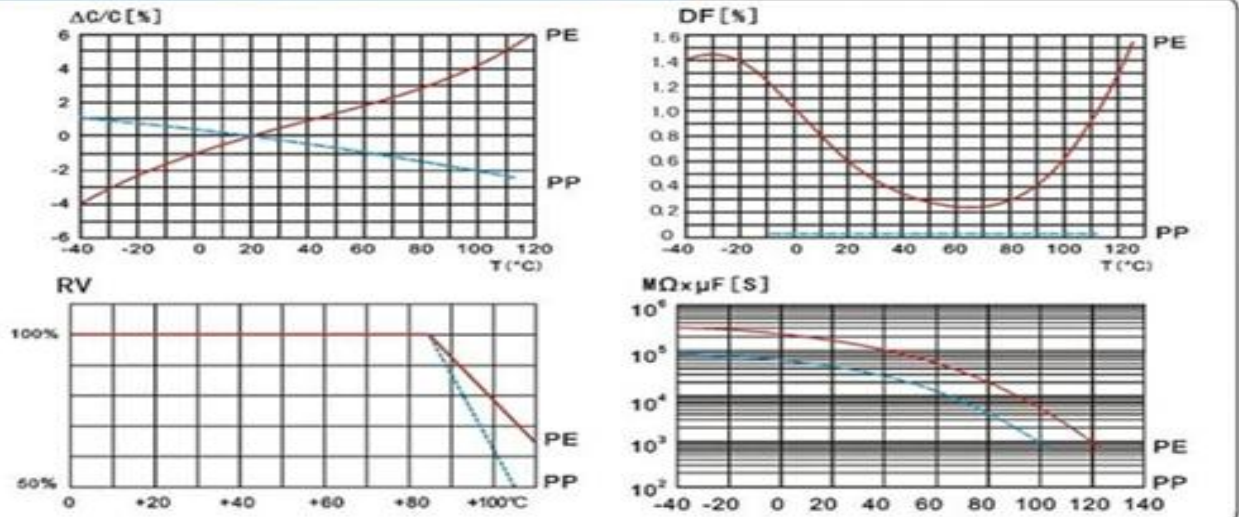
11. 温度特性

TEMPERATURE CHARACTERISTICS

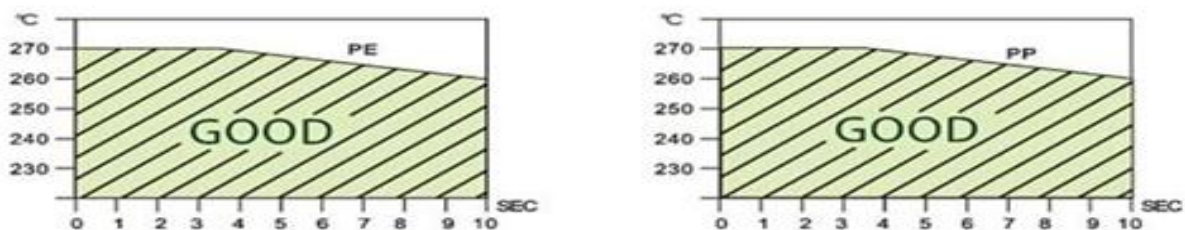


CHARACTERISTICS TYPICAL GRAPHS

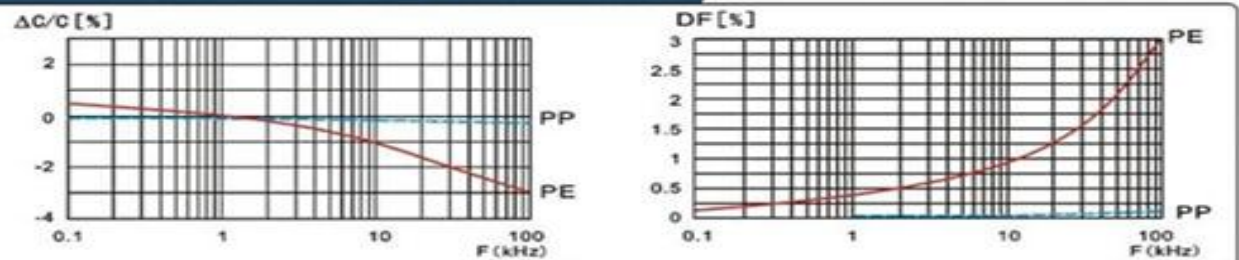
TEMPERATURE CHARACTERISTICS



SOLDERING TEMPERATURE VS. TIME



FREQUENCY CHARACTERISTICS



12.使用指导

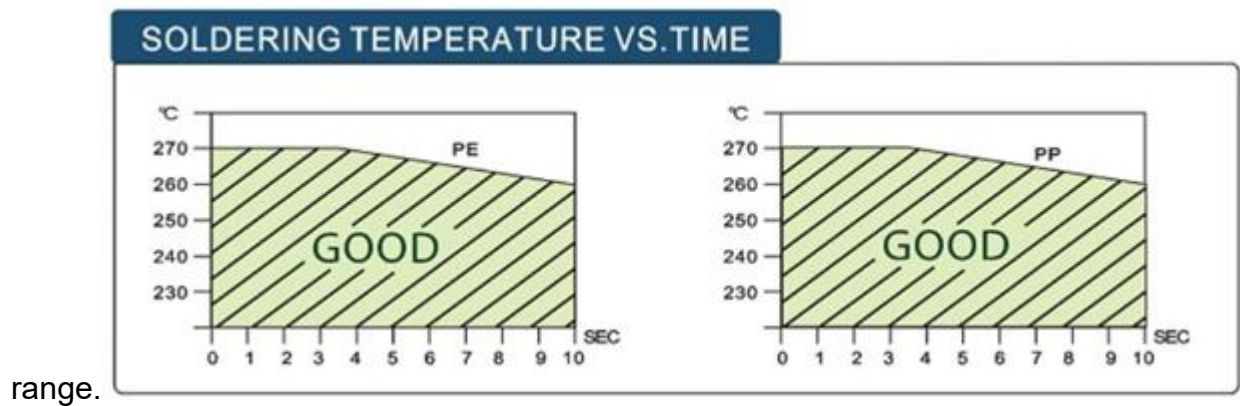
Guide in usage

12.1 焊锡

Soldering

当焊接电容器时，焊锡热会通过引线端子和封装层传递到电容素子，因此必须注意高温和长时间焊接引起的电容电气特性衰减或损坏。请确认焊锡在以下温度范围内。

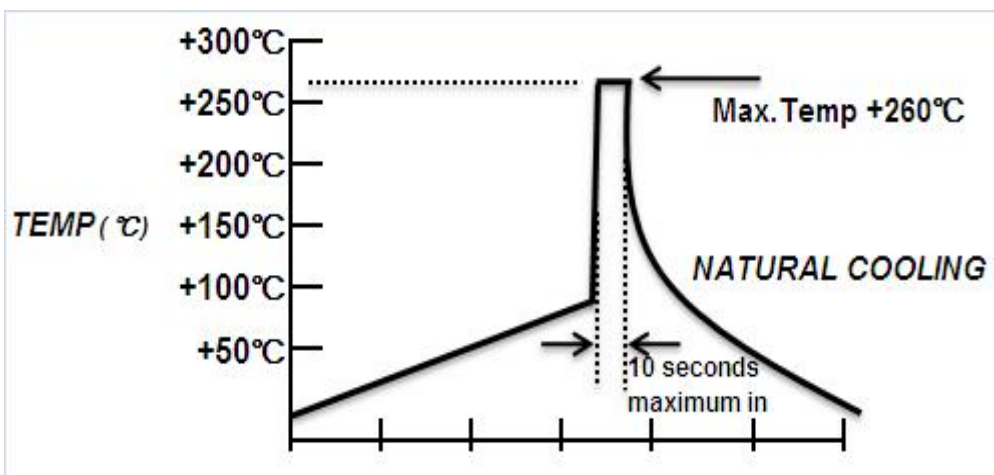
When welding a capacitor, the solder heat will be transferred to the capacitor element through the lead terminal and the packaging layer. Therefore, attention must be paid to the attenuation or damage of the electrical characteristics of the capacitor caused by high temperature and long-term soldering. Please confirm that the solder is within the following temperature



12.2 波峰焊 温度 $260 \pm 5^{\circ}\text{C}$ ，时间 < 10S

Flow / Wave Soldering

PRODUCTS: FILM CAPACITORS (Application of Through-Hole)



12.3 烙铁焊接

Soldering Iron

当使用烙铁焊接时，烙铁尖端温度不得超过 350°C ，焊接时间不超过5秒

When using soldering iron, iron tip temperature should be less than 350°C , and soldering time within 5 seconds.

13.环保要求

Environment Requirement

13.1 符合ROHS要求 Compliance with the requirement of ROHS.

13.2 符合REACH要求 Compliance with the requirement of REACH.

13.3 符合无卤（如要求） Without Halogen(as required).

14.参考标准

Reference Standards

GB- T2693- 2001 (IDT I EC 60384- 1- 2008) 电子设备用固定电容器第1部分总规范. (Fixed capacitors for use in electronic equipment –Part 1: Generic specification)

GB- T6346 电子设备用固定电容器第14部分:分规范:抑制电磁干扰和电源网络连接用固定电容器 (Fixed capacitors for use in electronic equipment –Part 14:Sectional specification:Fixed capacitors for electromagnetic interference suppression and connection to the supply mains)

IEC-60384-14-2005 电子设备用固定电容器第14部分:分规范:抑制电磁干扰固定式电容器和与电源连接. (Fixed capacitors for use in electronic equipment –Part 14:Sectional specification:Fixed capacitors for electromagnetic interference suppression and connection to the supply mains)

GB- T2828.1- 2012 计数抽样检验程序第1部分按接收质量限(AQL)检索逐批检验抽样计划.(Sampling procedures for inspection by attributes—Part 1:Sampling schemes indexed by acceptance quality limit (AQL)for lot-by-lot inspection)

15.包装

Packing



塑料袋最小包装，数量为100、200、500、1000 pcs

Plastic bag is the minimum packing.The quantity can be 100, 200, 500 and 1000 pcs.
袋内放置产品合格环保标识标签，包括料号，规格，数量，LOT批号，生产日期等
The label of the ROHS includes the product name, specification, quantity, lot No., manufacture date etc.



N袋小包装装一内箱

One inner box have N PCS bags

内箱尺寸为（长×宽×高）=23×30×30cm

Inner box size (L×W×H) =23×30×30cm

有环保标识 Marking for RoHS AND SVHC



两内箱装一外箱

One outer box have two Inner boxes

外箱尺寸为（长×宽×高）=48×32.2×33cm

Outer box size (L×W×H) ==48×32.2×33cm

有环保标识 Marking for RoHS and SVHC

16. 存储条件

Storage conditions

16.1 请注意，长时间产品暴露在空气中会导致引线氧化，焊接性能衰减。

It should be noted that the solderability of the terminals may be deteriorated when exposed in the air for a long period.

16.2 不能放置在高温高湿环境中，请遵循以下存储条件（原包装下保存）

It shall not be placed in high temperature and high humidity environment. Please follow the storage conditions below (stored in the original packaging)

温度 Temperature: 35°C MAX

相对湿度 Relative humidity: 60% MAX

16.3 存储时间：最长12个月（以包装袋上标注的生产日期为准）

Storage period: 12 months max

(from the manufacturing date marked on the label in package bag)

17. 可靠性实验

Reliability test

17.1 测试条件：除非另有规定，所有试验和测量均应在GB2421-81第4.3条(IEC60068.1第5.3条)中规定的试验用标准大气条件下进行,条件如下：

Test condition: Unless otherwise specified, all tests and measurements shall be made under standard atmospheric conditions for testing as given in GB2421-81 NO.4.3 (IEC68-1 NO.5.3), AS follows

温度 Temperature: 15°C — 35°C

相对湿度 Relative humidity: 25% — 75%

气压 Air pressure: 86 — 106Kpa (860 — 1060mbra)

17.2 如对测试结果有任何疑问，则按以下限制测试：

If there is any doubt on the results, measurements shall be made within the following conditions:

环境温度 Ambient temperature: 20±2°C

环境湿度 Relative humidity: 50% ~ 70%

17.3 电性参数参考 IEC60384-1: 2008 , IEC60384-14 , IEC60068- 2-2; IEC 60068- 2-21

Electric characteristics shall refer to IEC 60384- 1: 2008 , IEC 60384- 14 , IEC 60068- 2- 2; IEC 60068- 2- 21

17.4 試驗項目 Test Item

如下表列 As following list

No	項目 Item		特性要求 Characteristic requirement	測試方法及條件 Test method & Condition		
1	端子强度 Terminal Strength	拉伸强度 Pull Strength	无可见机械损伤 There shall be no visible mechanical damage	线径 mm	荷重	时间
				Wire diameter	Load	Time
				≤0.5	5N	10s
				0.5<d≤0.8	10N	10s
				0.8<d≤1.25	20N	10s
				IEC60384-14 C4.3 IEC60384-1 C4.13 IEC60068 2-21 Test Ua1		
		弯曲强度 Bending Strength	无可见机械损伤 There shall be no visible mechanical damage	线径 mm	荷重	次數
				Wire diameter	Load	Times
				≤0.5	2.5N	90°×4
				0.5<d≤0.8	5N	90°×4
				0.8<d≤1.25	10N	90°×4
				IEC60384-14 C4.3 IEC60384-1 C4.13 IEC60068 2-21 Test Ua1		
2	可焊性 Solderability		端子引线周围至少95%的面积均匀附锡，且本体无破裂等损坏现象 At least 95% of the area around the terminal lead is evenly tinned, and there is no damage such as cracks on the body	焊錫温度：260±5℃ Solder temp 浸渍时间：2.0±0.3S Immersion time IEC60384-14 C4.5 IEC60384-1 C4.15 IEC60068-2-20 Test Ta		
3	耐焊接热 Resistance to Soldering heat withstand	外观 Appearance	无可见损伤,标志清晰 No visible damage. The marking shall be legible	焊锡温度：260±3℃ Solder Temp 浸渍时间：10±1s Immersion time 恢复时间1- 2小时 Recovery duration under ordinary conditions: 1~2hours IEC60384-14 C4.5 IEC60384-1 C4.15 IEC60068-2-20 Test Ta		
		容量变化 Capacitance Change	△C/C≤±5%			
		损耗 Dissipation Factor	△tgδ<0.0080 C _R ≤1.0μF, 10kHz △tgδ<0.0050 C _R >1.0μF, 1kHz			
		耐电压 Voltage	4.3 U _R (dc) 60s耐电压后无击穿或飞弧 No permanent breakdown or flashover			
		绝缘电阻 Insulation Resistance	△R/R≤50%			

No	項目 Item		特性要求 Characteristic requirement	測試方法及條件 Test method & Condition
4	耐久性 Endurance	外观 Appearance	无可见损伤,标志清晰 No visible damage. The marking shall be legible	温度Temp: $110\pm3^{\circ}\text{C}$ 持续时间: Duration 1000 hrs 施加电压vol t age: $1.25 U_R(\text{a.c.})50\text{hz}$ 每小时施加1000vac / 0.1s once every hour increase to 1000vac for 0.1s 恢复时间至少16小时 Then recover under ordinary conditions for at least 16 hours IEC60384-14 C4.14 IEC60384-1 C4.23 IEC60068-2-2
		容量变化 Capacitance Variation	$\Delta C/C\leq\pm 10\%$	
		损耗 Dissipation Factor	$\Delta \text{tg}\delta < 0.0080 \text{ } C_R \leq 1.0\mu\text{F}, 10\text{kHz}$ $\Delta \text{tg}\delta < 0.0050 \text{ } C_R > 1.0\mu\text{F}, 1\text{kHz}$	
		耐电压 Voltage	4.3 $U_R(\text{dc})$ 60s耐电压后无击穿或飞弧 No permanent breakdown or flashover	
		绝缘电阻 Insulation Resistance	$\Delta R/R\leq 50\%$	
5	稳态湿热 Damp heat, steady	外观 Appearance	无可见损伤,标志清晰 No visible damage. The marking shall be legible.	温度Temp: $40\pm 2^{\circ}\text{C}$ 湿度Humidity: 90-95%RH 持续时间Duration: 4~56 days 依需要 电容不施加电压 恢复时间 24小时 Then recover under ordinary conditions for 24 hours IEC60384-14 C4.12 IEC60384-1 C4.22 IEC60068-2-78 Test Cab
		容量变化 Capacitance Variation	$\Delta C/C\leq\pm 5\%$	
		损耗 Dissipation Factor	$\Delta \text{tg}\delta < 0.0080 \text{ } C_R \leq 1.0\mu\text{F}, 10\text{kHz}$ $\Delta \text{tg}\delta < 0.0050 \text{ } C_R > 1.0\mu\text{F}, 1\text{kHz}$	
		耐电压 Withstand Voltage	4.3 $U_R(\text{dc})$ 60s耐电压后无击穿或飞弧 No permanent breakdown or flashover	
		绝缘电阻 Insulation Resistance	$\Delta R/R\leq 50\%$	
6	干热 Dry heat	外观 Appearance	无可见损伤,标志清晰 No visible damage. The marking shall be legible	温度 Temp: $110\pm 2^{\circ}\text{C}$ 持续时间: 16h Duration 恢复时间不低于4小时 Then recover under ordinary conditions for at least 4 hours IEC60384-14 C4.11.2 IEC60384-1 C4.21.2 IEC60068-2-2, test Bb
		容量变化 Capacitance Variation	$\Delta C/C\leq\pm 5\%$	
		损耗 Dissipation Factor	$\Delta \text{tg}\delta < 0.0080 \text{ } C_R \leq 1.0\mu\text{F}, 10\text{kHz}$ $\Delta \text{tg}\delta < 0.0050 \text{ } C_R > 1.0\mu\text{F}, 1\text{kHz}$	
		耐电压 Withstand Voltage	4.3 $U_R(\text{dc})$ 60s耐电压后无击穿或飞弧 No permanent breakdown or flashover	
		绝缘电阻 Insulation Resistance	$\Delta R/R\leq 50\%$	

No	項目 Item		特性要求 Characteristic requirement	測試方法及條件 Test method & Condition
7	寒冷 Cold	外观 Appearance	无可见损伤,标志清晰 No visible damage, The marking shall be legible	温度Temp: $-40\pm 2^{\circ}\text{C}$ 持续时间: 2h Duration: 恢复时间不低于4小时 Then recover under ordinary conditions for at least 4 hours IEC60384-14 C4.11.4 IEC60384-1 C4.21.4 IEC60068-2-1, test Ab
		容量变化 Capacitance Variation	$\Delta C/C \leq \pm 10\%$	
		损耗 Dissipation Factor	$\Delta \text{tg}\delta < 0.0080$ $C_R \leq 1.0\mu\text{F}$, 10kHz $\Delta \text{tg}\delta < 0.0050$ $C_R > 1.0\mu\text{F}$, 1kHz	
		耐电压 Voltage	4.3 U_R (dc) 60s耐电压后无击穿或飞弧 No permanent breakdown or flashover	
		绝缘电阻 Insulation Resistance	$\Delta R/R \leq 50\%$	
8	脉冲 Impulse voltage	外观 Appearance	无可见损伤,标志清晰 No visible damage. The marking shall be legible.	When $C_R \leq 1.0\mu\text{F}$ $U_P = 2.5 \text{ kV}$ When $C_R > 1.0\mu\text{F}$ $U_P = 2.5 \text{ kV}/\sqrt{C}$ time:10s Cycle times:24次 前三次脉冲没有发生自愈性击穿, 则可停止, 为合格 IEC60384-14 C4.13 IEC60060-1
		容量变化 Capacitance Variation	$\Delta C/C \leq \pm 5\%$	
		损耗 Dissipation Factor	$\Delta \text{tg}\delta < 0.0080$ $C_R \leq 1.0\mu\text{F}$, 10kHz $\Delta \text{tg}\delta < 0.0050$ $C_R > 1.0\mu\text{F}$, 1kHz	
		耐电压 Withstand Voltage	4.3 U_R (dc) 60s耐电压后无击穿或飞弧 No permanent breakdown or flashover	
		绝缘电阻 Insulation Resistance	$\Delta R/R \leq 50\%$	
9	充放电 Charge and Discharge	外观 Appearance	无可见损伤,标志清晰 No visible damage. The marking shall be legible.	Test voltage: $1.414 \times U_R$ (d.c.) Cycle times:10000 dv/dt:100 V/ μs . resistor: $(220 \times 10^{-6} / C_R) \Omega$ IEC60384-14 C4.15 IEC60384-1 C4.27
		容量变化 Capacitance Variation	$\Delta C/C \leq \pm 10\%$	
		损耗 Dissipation Factor	$\Delta \text{tg}\delta < 0.0080$ $C_R \leq 1.0\mu\text{F}$, 10kHz $\Delta \text{tg}\delta < 0.0050$ $C_R > 1.0\mu\text{F}$, 1kHz	
		耐电压 Withstand Voltage	4.3 U_R (dc) 60s耐电压后无击穿或飞弧 No permanent breakdown or flashover	
		绝缘电阻 Insulation Resistance	$\Delta R/R \leq 50\%$	

No	項目 Item		特性要求 Characteristic Requirement	測試方法及條件 Test method & Condition
10	振动 Vibration	外观 Appearance	无可见损伤,标志清晰 No visible damage. The marking shall be legible	上下左右前后三个方向各2H, 频率10- 55Hz 振幅0.75mm或100m/ s ² 3 directions at 2 hours each 10-55Hz at 0.75mm or 100 m/s ² IEC60384-14 C4.7 IEC60384-1 C4.17 IEC 60068-2-6, test Fc,
11	碰撞或冲击 Bump	外观 Appearance	无可见损伤,标志清晰 No visible damage. The marking shall be legible	次数 Number of bumps: 1,000 or 4, 000 加速度 Acceleration:400 m/s ² Pulse duration: 6 ms IEC60384-14 C4.8 IEC60384-1 C4.18 IEC 60068-2-29, test Eb
		容量变化 Capacitance Variation	$\Delta C/C \leq \pm 5\%$	
		损耗 Dissipation Factor	$\Delta \tan \delta < 0.0080$ $C_R \leq 1.0 \mu F$, 10kHz $\Delta \tan \delta < 0.0050$ $C_R > 1.0 \mu F$, 1kHz	
12	阻燃试验 Passive flammability test		燃焰等级: B Category of flammability 燃焰时间: 10s Flame exposure time 最大燃烧时间: 10s Maximum burning time	UL94-V0 IEC60384-14 C4.17 IEC60384-1 C4.38 IEC60695-11-5.
13	自燃试验 Active flammability test		缠绕在电容上的薄纱布应不会燃烧, 电测量不要求。 The cheesecloth around the capacitor shall not catch fire. No electrical measurements are required.	施加电压为2.5KV的20个脉冲电压, 每个电压5秒 20 surge pulses at 2.5 KV (pulse every 5s) IEC60384-14 C4.18