产品承认书

客户名称：立创商城

产品名称：圆板陶瓷电容器

规格描述：Y5V-103M/2KV F5*L10

产品编码：JCT82F103M3DF5100A070BFA2

客户料号：

制作日期：2025-06-12

供应商签署栏			
制作	审核	批准	公司印章
邓光彦	张云云	孙洪淇	

客户确认栏			
承认	审核	批准	结论： □合格 □不合格 □其它：

烦请确认后回传，以方便交货确认；未回签表示默认合格，订货合同按此样品执行交货。

供应商信息：

地址：东莞市厚街镇三屯村上屯上涌路 28 号 C 栋四楼
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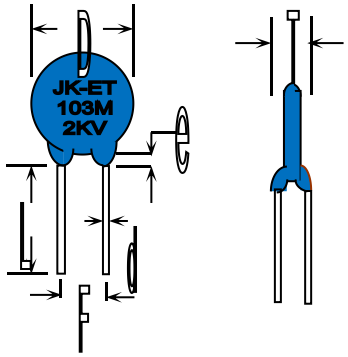
一、Performance parameter

客户名称	立创商城	日　　期	2025-06-12
产品名称	圆板陶瓷电容器	执行标准	GB/T 2693-2001
规格描述	Y5V-103M/2KV F5*L10	产品编码	JCT82F103M3DF5100A070BFA2
客户料号			

1.温度特性的温度范围	-25℃~+85℃
2.工作温度范围	-25℃~+85℃
3.外观、印字要求	产品本体表面光洁，无损坏；引脚无氧化，无异物；激光印字清晰、正确、完整。

4.印字、尺寸标准(mm)			**实测记录**				
	D	7.5±1.0	7.60	7.55	7.48	7.50	7.58
	T	2.5±0.8	2.55	2.43	2.40	2.58	2.47
	F	5.0±0.5	5.05	5.11	5.00	5.16	5.08
	L	10.0±2.0	10.28	10.30	10.06	10.24	10.11
	d	0.50±0.05	0.50	0.49	0.50	0.50	0.50
	e	3.0max	1.06	1.18	1.00	1.11	1.24

5.性能标准		**实测记录**				
电 容 量	10nF　±20%	10.84	10.12	10.63	11.22	10.54
损 耗 角	≤0.025	0.0068	0.0062	0.0064	0.0065	0.0068
耐 电 压	无击穿，无飞弧(3500VDC 60S)	PASS	PASS	PASS	PASS	PASS
绝缘电阻	≥6000MΩ(500VDC 充电 60S)	PASS	PASS	PASS	PASS	PASS
材　　质	Y5V					
本体包封	蓝色环氧					
测试仪器	ZX6517 容量损耗测试仪　LK2671B 耐压测试仪　TH2681A 绝缘电阻测试仪					
测试条件	1KHz　1.0V　25±1℃　50±25%RH					
6.环保标准	符合 RoHS2.0　REACH　无卤素标准					
7.包装标准	散装 1000PCS/包					

二、How to order for disc ceramic capacitors

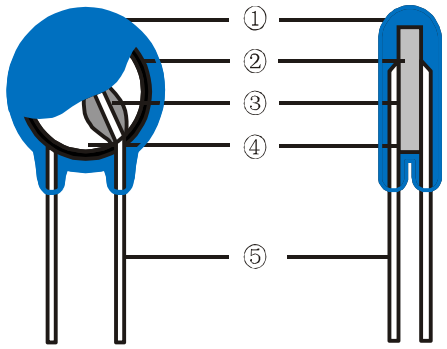
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫
JCT8	2F	103	M	3D	F5	100	A	070	B	F	A2
SERIES	DIELECTRIC	CAPACITANCE CODE	CAPACITANCE TOLERANCE	RATED VOLATGE	PITCH	PACKING LENGTH	LEAD STYLE	DIELECTRIC DIAMETER	COATING	Environmental compliance	Internal control code
JK-ET class Ⅱ	Y5V	10nF	±20%	2000VDC	5.0mm	BULK 10.0mm	Straight	7.0mm	BLUE EPOXY RESIN	RoHS2.0 REACH Halogen free	

Codes for capacitance shall be find expression in three numbers. The first two digits are significant, and the third digit is number of zero.

三、Performance test

NO	Test item	Performance requirements	Conditions of test
1	Visual examination	No visible damage. Legible marking. Lead frame is not oxidation and its surface is without sundries.	unaided eye or magnifier
2	Dimensions	Dimensional compliance requirements	vernier caliper
3	Marking	Consistent with logo design	unaided eye or magnifier
4	Voltage proof (Between lead wire)	No permanent breakdown or flashover during the test period.	test voltage: 3500VDC duration: 60 seconds frequency: 50/60Hz
5	Capacitance	Within specified tolerance. K: ±10% M: ±20%	Temperature: 25±3℃ Humidity: 55±30%RH Voltage: 1.0±0.2V Frequency: 1±0.2KHz
6	Dissipation factor tan δ	Within specified tolerance: Y5P: ≤0.025 Y5U: ≤0.025 Y5V: ≤0.025	Temperature: 25±3℃ Humidity: 55±30%RH Voltage: 1.0±0.2V Frequency: 1±0.2KHz
7	Insulation resistance (Between lead wire)	6000MΩ min	Test voltage: 500VDC duration: 60 seconds Frequency: 50/60Hz

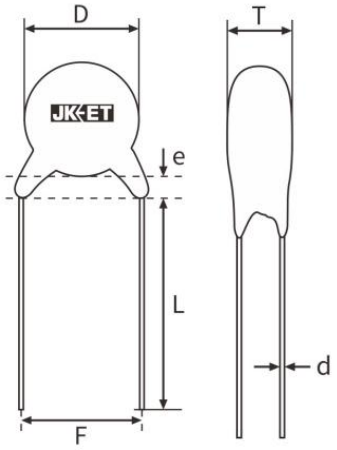
四、The constituent parts of capacitor



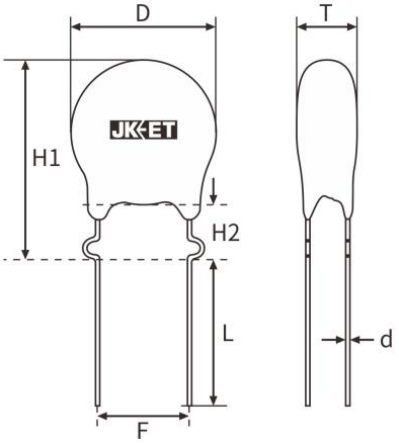
NO.	constituent	material
①	Coating	Epoxy resin
②	medium	Ceramic
③	Solder	Soldering tin
④	Electrode	Silver oxide
⑤	Lead Frame	CP wire

五、Figure and code of dimension

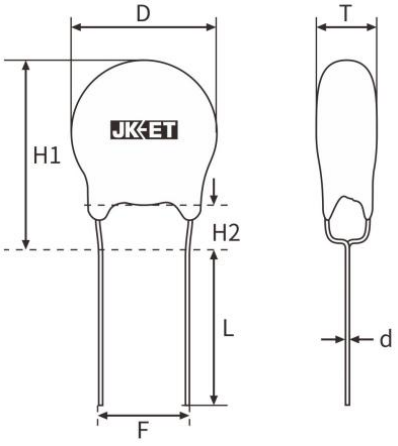
TYPE A: Straight



TYPE C: Outside Kink



TYPE D: Y kink



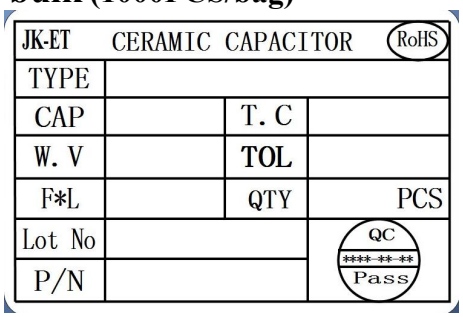
六、Requirements for concentration limits for certain hazardous substances

Conform to RoHS2.0 2011/65/EU, Halogen free, REACH No1907/2006

Substances	concentration (unit: ppm)	Substances	concentration (unit: ppm)
Cadmium and cadmium compounds	<100	Cl	<900
Lead and lead compounds	<1000	Br	<900
Mercury and mercury compounds	<1000	Cl+Br	<1500
Hexavalent chromium compounds	<1000	REACH（SVHC）	<1000
PBBS Polubrominated biphenyls	<1000	Benzyl Butyl Phthalate (BBP)	<1000
PBDES Polubrominated diphenylethers	<1000	Di-2-Ethyl Hexyl Phthalate (DEHP)	<1000
Di-butyl Phthalate (DBP)	<1000	Diisobutyl Phthalates (DIBP)	<1000

七、Packing

bulk (1000PCS/bag)



八、Storage conditions

The capacitors are must not store in a corrosive atmosphere, where sulphide or chloride gas, acid, alkali or salt are present. Exposure of the components to moisture, should be avoided. Capacitors can be stored for short periods at any temperature within the entire range of category temperature. For long storage periods, however, the following conditions should be observed:

- ●Storage temperature: -25 to +40℃
- ●Maximum relative humidity 75%, no dew allowed on the capacitor.
- ●Maximum duration 6months.

九、Cautions and warnings

1. Attention is drawn to the fact that repetition of the voltage proof test by the user may damage the capacitor.
2. Do not place the capacitor a PC board whose hole space differs from the specified lead space.
3. Avoid any compressive, tensile or flexural stress.
4. Please consult us first if you wish to embed the capacitor in plastic resins.
5. Do not move the capacitor after it has been soldered to the board.
6. Do not pick up the PC board by the soldered capacitor.

十、General knowledge for AC ceramic capacitors

1. The test conditions for capacitance and Dissipation factor (tan δ)

1.1Environment: temperature：25±1℃ humidity：50±25%RH

1.2Voltage and frequency for test apparatus: 1.0±0.2V, 1KHz±20Hz

1.3Capacitor shall be store in environment for test more than two hours before test.

2. The test method

2.1For capacitance and Dissipation factor (tan δ)

2.1.1The capacitor is tested after be clamped with the test tool, can't take the capacitor's body for test with hand. Capacitance and dissipation factor are not exact because of temperature in hand and test result is not right.

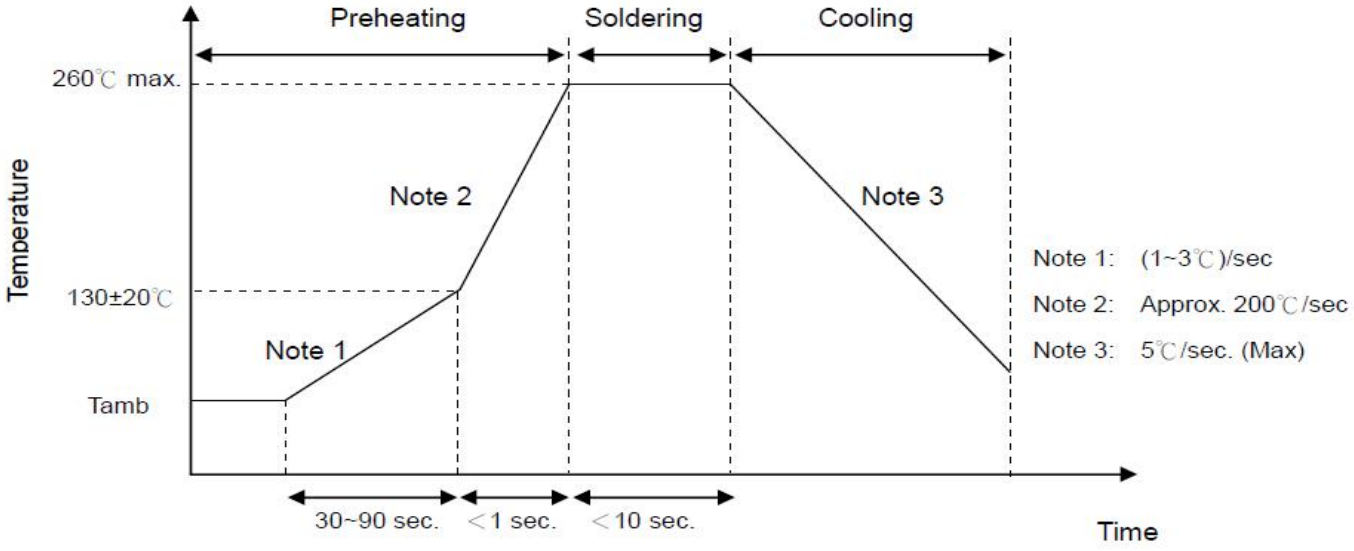
2.1.2The capacitor's capacitance and Dissipation factor after voltage tested may not test before the capacitor is stored for 24 hours after voltage test. The capacitor must be discharge between leads before test, or else voltage of remainder attaint test apparatus.

2.2For Voltage proof:

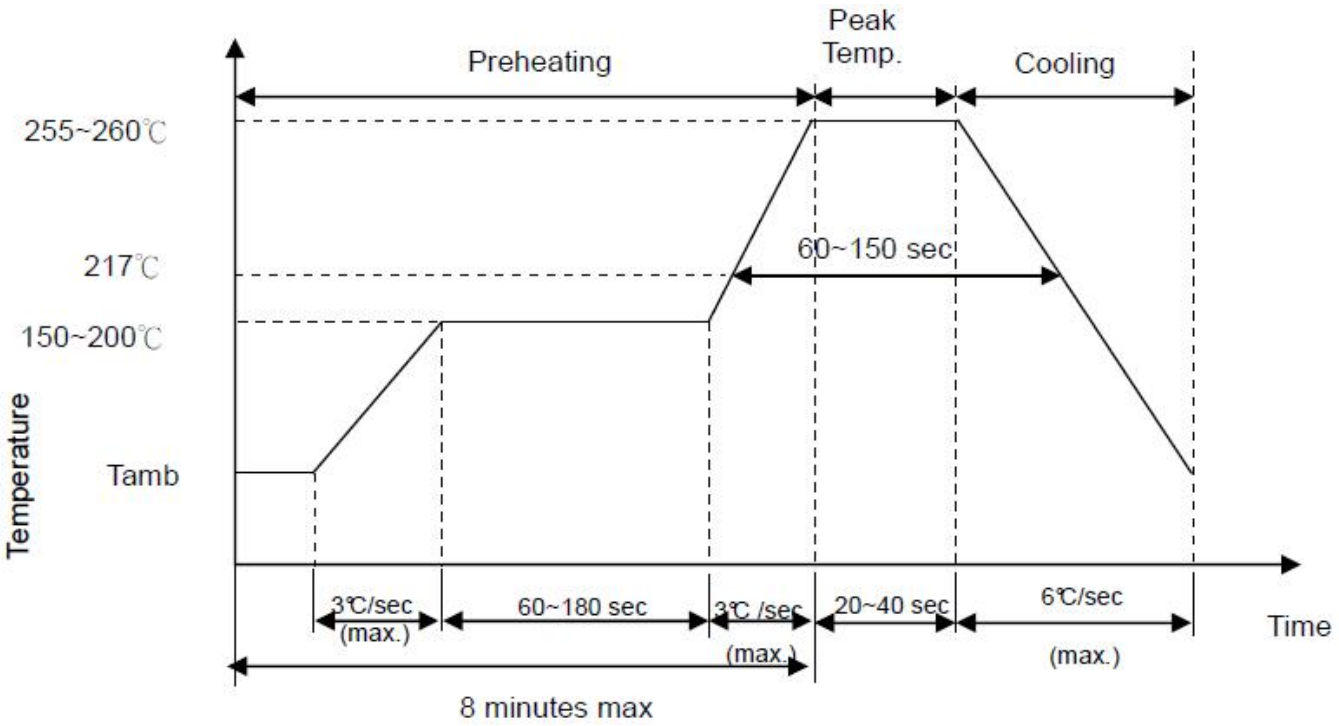
Charge to capacitor after AC or DC Voltage, value, time and current are seted in test apparatus, clamping capacitor's lead with clamp for test apparatus output. Space between clamps for test apparatus output must meet standard，or else flashover will be happened between two leads if space is too small. Capacitor's configuration was be destroyed if great current will be happened in capacitor for moment.

十一、Recommended soldering conditions

●Wave soldering curve



●Reflow soldering curve



●Welding conditions for soldering iron heavy industry

item	temperature
Temperature of soldering iron head	360℃（max）
soldering time	3s(max)
Solder head diameter	Φ3mm(max)