规格承认书

Specification for approval

客户名称/CUSTOMER: XX

系列型号/SERIES TYPE: TY

产品描述/DESCRIPTION: 详见清单

特锐祥料号/TRX P.N.: 详见清单

四川特锐祥科技股份有限公司
深圳市特锐祥电子有限公司
SHENZHEN TERUIXIANG ELECTRONIC CO.,LTD.
工 程 部
2024年 06月 20日

产品环保要求 Product environmental protection requirements	ROHS 要求 ROHS requirements	REACH 要求 REACH requirements	卤素要求 Halogen requirements
	■	■	■

制作/prepare	客户确认（签署）/ customer to confirm (signed)
李玉祥	
审核/check	
钟金玲	
批准/approve	（签认后，敬请惠还壹份） (signed subscription, please also one copy)

四川特锐祥科技股份有限公司
SICHUAN TRX TECHNOLOGY CO.,LTD
深圳市特锐祥电子有限公司
SHENZHEN TRX ELECTRONIC CO.,LTD

Add sc：四川省绵阳市游仙经济开发区三江路 1 号
Add sz：深圳市光明新区新湖街道楼村社区绘猫路 163 号中鑫大厦 1201
Tel：+86-816-6039188/+86-755-27892117
Fax：+86-816-6039198/+86-755-27893019

变更履历表/E.C.LIST

物料名称 Material name	DIP-Y1.CAP		产品描述 Description	详见清单 See list	
特锐祥料号 TRX P.N.	详见清单 See list	版本 Edition	B1	日期 Date	2024-06-20

版本 Edition	日期 Date	主要变更内容 Main update item	备注 Remarks
A0	2014-12-08	新版 New Version	
B0	2022-04-25	绝缘电阻 Insulation Resistance	10000MΩ MIN
B1	2024-06-20	更换版本 Change version	

修改 Modify	李玉祥	审核 Check	钟金玲	批准 Approve	

四川特锐祥科技股份有限公司
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目录/CONTENT

1.TRX 常规 DIP-Y1.CAP 容值范围及温度特性区分

Capacitance Range and T.C Differentiation：（Unit:pF）

关于 Y1 交流陶瓷固定电容器承认书规格型号说明：

Specification and model description of Y1 AC ceramic fixed capacitor:

T.C	100	150	220	270	330	470	680	1000	1500	2200	3300	4700
2B(Y5P)												
2E(Y5U)												
2F(Y5V)												
U_R	500V.ac											
工作温度范围 Operating Temperature	-25℃ to 125℃											
气候类别 Climatic category	25/ 125/ 21											

适用于连接一个额定电压不超过 1000V 的交流电，标称频率不超过 100Hz 的电子电气设备。

About Y AC ceramic fixed capacitor acknowledgement specifications description:

Y a.c. ceramic capacitors are used in electrical and electronic equipment and connected an a.c. main with nominal voltage not exceeding 1000va.c, and with a nominal frequency not exceeding 100Hz.

2.品名/Product Name

Y1	101	K	8	B	1	F	1	W	0
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

No.	代码 Code	说明 Explanation
①	Y1	安规类别 Safety class
②	101	容量：前两位表示有效数字，最后一位为乘方数。 Capacitance：The first two digits represent significant numbers, and the last digit is a multiplier. (eg: 101=10×10¹=100pF)
③	K	容差/Capacitance tolerance J(±5%) / K(±10%) / M(±20%)
④	8	产品直径最大值 Maximum product diameter
⑤	B	材质代码/Code of dielectric B(Y5P) / E(Y5U) / F(Y5V)
⑥	1	厚度/Thickness 1(4.5Max)/2(4.8Max)
⑦	F	脚型/Feet shape F(直脚）/V(前后弯）/K（双外 K）
⑧	1	包装方式/Packaging method 1(散件）/2（孔距 12.7 跳格）/3（孔距 12.7 不跳格）/4 孔距 15 不跳格）
⑨	W	脚长/Feet long C(3.5±0.5)/W(20.0Min)/X(18.0±2.0)
⑩	0	脚距/Feet distance 0(10.0mm)

以上提到的各种代码为本公司规定标准应用！
Various code mentioned above for the company standard application!

2. 承认规格/Recognized Specifications

短脚承认规格/Short leg recognized specifications

序号 Code	特锐祥料号 TRX P.N.	产品描述 Product description	D Max	T Max	F ± 0.8	L ± 0.5	脚型 Remarks
1	Y1101K8B1F1C0	Y1 Y5P-101K/500V	8	4.5	10	3.5	直脚
2	Y1101K8B1V1C0	Y1 Y5P-101K/500V	8	4.5	10	3.5	前后弯
3	Y1101K8B1K1C0	Y1 Y5P-101K/500V	8	4.5	10	3.5	双外 K
4	Y1221K8B1F1C0	Y1 Y5P-221K/500V	8	4.5	10	3.5	直脚
5	Y1221K8B1V1C0	Y1 Y5P-221K/500V	8	4.5	10	3.5	前后弯
6	Y1221K8B1K1C0	Y1 Y5P-221K/500V	8	4.5	10	3.5	双外 K
7	Y1331K8B1F1C0	Y1 Y5P-331K/500V	8	4.5	10	3.5	直脚
8	Y1331K8B1V1C0	Y1 Y5P-331K/500V	8	4.5	10	3.5	前后弯
9	Y1331K8B1K1C0	Y1 Y5P-331K/500V	8	4.5	10	3.5	双外 K
10	Y1471M8E1F1C0	Y1 Y5U-471M/500V	8	4.5	10	3.5	直脚
11	Y1471M8E1V1C0	Y1 Y5U-471M/500V	8	4.5	10	3.5	前后弯
12	Y1471M8E1K1C0	Y1 Y5U-471M/500V	8	4.5	10	3.5	双外 K
13	Y1471K8B1F1C0	Y1 Y5P-471K/500V	8	4.5	10	3.5	直脚
14	Y1471K8B1V1C0	Y1 Y5P-471K/500V	8	4.5	10	3.5	前后弯
15	Y1471K8B1K1C0	Y1 Y5P-471K/500V	8	4.5	10	3.5	双外 K
16	Y1681M7E1F1C0	Y1 Y5U-681M/500V	7	4.5	10	3.5	直脚
17	Y1681M7E1V1C0	Y1 Y5U-681M/500V	7	4.5	10	3.5	前后弯
18	Y1681M7E1K1C0	Y1 Y5U-681M/500V	7	4.5	10	3.5	双外 K
19	Y1681K9B1F1C0	Y1 Y5P-681K/500V	9	4.5	10	3.5	直脚
20	Y1681K9B1V1C0	Y1 Y5P-681K/500V	9	4.5	10	3.5	前后弯
21	Y1681K9B1K1C0	Y1 Y5P-681K/500V	9	4.5	10	3.5	双外 K
22	Y1102M8F1F1C0	Y1 Y5V--102M/500V	8	4.5	10	3.5	直脚
23	Y1102M8F1V1C0	Y1 Y5V--102M/500V	8	4.5	10	3.5	前后弯
24	Y1102M8F1K1C0	Y1 Y5V--102M/500V	8	4.5	10	3.5	双外 K
25	Y1102M8E1F1C0	Y1 Y5U102M/500V	8	4.5	10	3.5	直脚
26	Y1102M8E1V1C0	Y1 Y5U-102M/500V	8	4.5	10	3.5	前后弯
27	Y1102M8E1K1C0	Y1 Y5U-102M/500V	8	4.5	10	3.5	双外 K
28	Y1102K0B1F1C0	Y1 Y5P-102K/500V	10	4.5	10	3.5	直脚
29	Y1102K0B1V1C0	Y1 Y5P-102K/500V	10	4.5	10	3.5	前后弯
30	Y1102K0B1K1C0	Y1 Y5P-102K/500V	10	4.5	10	3.5	双外 K
备注	根据陶瓷材料材质区分为：Y5P/Y5U/Y5V 代表 CLASS II 系列。						

续表/Continued

短脚承认规格/Short leg recognized specifications

序号 Code	特锐祥料号 TRX P.N.	产品描述 Product description	D Max	T Max	F ± 0.8	L ± 0.5	脚型 Remarks
31	Y1152M9F1F1C0	Y1 Y5V-152M/500V	9	4.5	10	3.5	直脚
32	Y1152M9F1V1C0	Y1 Y5V-152M/500V	9	4.5	10	3.5	前后弯
33	Y1152M9F1K1C0	Y1 Y5V-152M/500V	9	4.5	10	3.5	双外 K
34	Y1152M9E1F1C0	Y1 Y5U-152M/500V	9	4.5	10	3.5	直脚
35	Y1152M9E1V1C0	Y1 Y5U-152M/500V	9	4.5	10	3.5	前后弯
36	Y1152M9E1K1C0	Y1 Y5U-152M/500V	9	4.5	10	3.5	双外 K
37	Y1222M9F1F1C0	Y1 Y5V-222M/500V	9	4.5	10	3.5	直脚
38	Y1222M9F1V1C0	Y1 Y5V-222M/500V	9	4.5	10	3.5	前后弯
39	Y1222M9F1K1C0	Y1 Y5V-222M/500V	9	4.5	10	3.5	双外 K
40	Y1222M9E1F1C0	Y1 Y5U-222M/500V	9	4.5	10	3.5	直脚
41	Y1222M9E1V1C0	Y1 Y5U-222M/500V	9	4.5	10	3.5	前后弯
42	Y1222M9E1K1C0	Y1 Y5U-222M/500V	9	4.5	10	3.5	双外 K
43	Y1332M9F1F1C0	Y1 Y5V-332M/500V	9	4.5	10	3.5	直脚
44	Y1332M9F1V1C0	Y1 Y5V-332M/500V	9	4.5	10	3.5	前后弯
45	Y1332M9F1K1C0	Y1 Y5V-332M/500V	9	4.5	10	3.5	双外 K
46	Y1332M2E1F1C0	Y1 Y5U-332M/500V	12	4.5	10	3.5	直脚
47	Y1332M2E1V1C0	Y1 Y5U-332M/500V	12	4.5	10	3.5	前后弯
48	Y1332M2E1K1C0	Y1 Y5U-332M/500V	12	4.5	10	3.5	双外 K
49	Y1472M0F1F1C0	Y1 Y5V-472M/500V	12	4.5	10	3.5	直脚
50	Y1472M0F1V1C0	Y1 Y5V-472M/500V	12	4.5	10	3.5	前后弯
51	Y1472M0F1K1C0	Y1 Y5V-472M/500V	12	4.5	10	3.5	双外 K
52	Y1472M3E1F1C0	Y1 Y5U-472M/500V	13	4.5	10	3.5	直脚
53	Y1472M3E1V1C0	Y1 Y5U-472M/500V	13	4.5	10	3.5	前后弯
54	Y1472M3E1K1C0	Y1 Y5U-472M/500V	13	4.5	10	3.5	双外 K
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备注	根据陶瓷材料材质区分为：Y5P/Y5U/Y5V 代表 CLASS II 系列。						

续表/Continued

长脚承认规格/Long leg recognized specifications

序号 Code	特锐祥料号 TRX P.N.	产品描述 Product description	D Max	T Max	F ± 0.8	L Min	脚型 Remarks
1	Y1101K8B1F1W0	Y1 Y5P-101K/500V	8	4.5	10	20	直脚
2	Y1101K8B1V1W0	Y1 Y5P-101K/500V	8	4.5	10	20	前后弯
3	Y1101K8B1K1W0	Y1 Y5P-101K/500V	8	4.5	10	20	双外 K
4	Y1221K8B1F1W0	Y1 Y5P-221K/500V	8	4.5	10	20	直脚
5	Y1221K8B1V1W0	Y1 Y5P-221K/500V	8	4.5	10	20	前后弯
6	Y1221K8B1K1W0	Y1 Y5P-221K/500V	8	4.5	10	20	双外 K
7	Y1331K8B1F1W0	Y1 Y5P-331K/500V	8	4.5	10	20	直脚
8	Y1331K8B1V1W0	Y1 Y5P-331K/500V	8	4.5	10	20	前后弯
9	Y1331K8B1K1W0	Y1 Y5P-331K/500V	8	4.5	10	20	双外 K
10	Y1471M8E1F1W0	Y1 Y5U-471M/500V	8	4.5	10	20	直脚
11	Y1471M8E1V1W0	Y1 Y5U-471M/500V	8	4.5	10	20	前后弯
12	Y1471M8E1K1W0	Y1 Y5U-471M/500V	8	4.5	10	20	双外 K
13	Y1471K8B1F1W0	Y1 Y5P-471K/500V	8	4.5	10	20	直脚
14	Y1471K8B1V1W0	Y1 Y5P-471K/500V	8	4.5	10	20	前后弯
15	Y1471K8B1K1W0	Y1 Y5P-471K/500V	8	4.5	10	20	双外 K
16	Y1681M7E1F1W0	Y1 Y5U-681M/500V	7	4.5	10	20	直脚
17	Y1681M7E1V1W0	Y1 Y5U-681M/500V	7	4.5	10	20	前后弯
18	Y1681M7E1K1W0	Y1 Y5U-681M/500V	7	4.5	10	20	双外 K
19	Y1681K9B1F1W0	Y1 Y5P-681K/500V	9	4.5	10	20	直脚
20	Y1681K9B1V1W0	Y1 Y5P-681K/500V	9	4.5	10	20	前后弯
21	Y1681K9B1K1W0	Y1 Y5P-681K/500V	9	4.5	10	20	双外 K
22	Y1102M8F1F1W0	Y1 Y5V-102M/500V	8	4.5	10	20	直脚
23	Y1102M8F1V1W0	Y1 Y5V-102M/500V	8	4.5	10	20	前后弯
24	Y1102M8F1K1W0	Y1 Y5U-102M/500V	8	4.5	10	20	双外 K
25	Y1102M8E1F1W0	Y1 Y5U-102M/500V	8	4.5	10	20	直脚
26	Y1102M8E1V1W0	Y1 Y5U-102M/500V	8	4.5	10	20	前后弯
27	Y1102M8E1K1W0	Y1 Y5U-102M/500V	8	4.5	10	20	双外 K
28	Y1102K0B1F1W0	Y1 Y5P-102K/500V	10	4.5	10	20	直脚
29	Y1102K0B1V1W0	Y1 Y5P-102K/500V	10	4.5	10	20	前后弯
30	Y1102K0B1K1W0	Y1 Y5P-102K/500V	10	4.5	10	20	双外 K
备注	根据陶瓷材料材质区分为：Y5P/Y5U/Y5V 代表 CLASS II 系列。						

续表/Continued

长脚承认规格/Long leg recognized specifications

序号 Code	特锐祥料号 TRX P.N.	产品描述 Product description	D Max	T Max	F ± 0.8	L Min	脚型 Remarks
31	Y1152M9F1F1W0	Y1 Y5V-152M/500V	9	4.5	10	20	直脚
32	Y1152M9F1V1W0	Y1 Y5V-152M/500V	9	4.5	10	20	前后弯
33	Y1152M9F1K1W0	Y1 Y5V-152M/500V	9	4.5	10	20	双外 K
34	Y1152M9E1F1W0	Y1 Y5U-152M/500V	9	4.5	10	20	直脚
35	Y1152M9E1V1W0	Y1 Y5U-152M/500V	9	4.5	10	20	前后弯
36	Y1152M9E1K1W0	Y1 Y5U-152M/500V	9	4.5	10	20	双外 K
37	Y1222M9F1F1W0	Y1 Y5V-222M/500V	9	4.5	10	20	直脚
38	Y1222M9F1V1W0	Y1 Y5V-222M/500V	9	4.5	10	20	前后弯
39	Y1222M9F1K1W0	Y1 Y5V-222M/500V	9	4.5	10	20	双外 K
40	Y1222M9E1F1W0	Y1 Y5U-222M/500V	9	4.5	10	20	直脚
41	Y1222M9E1V1W0	Y1 Y5U-222M/500V	9	4.5	10	20	前后弯
42	Y1222M9E1K1W0	Y1 Y5U-222M/500V	9	4.5	10	20	双外 K
43	Y1332M9F1F1W0	Y1 Y5V-332M/500V	9	4.5	10	20	直脚
44	Y1332M9F1V1W0	Y1 Y5V-332M/500V	9	4.5	10	20	前后弯
45	Y1332M9F1K1W0	Y1 Y5V-332M/500V	9	4.5	10	20	双外 K
46	Y1332M2E1F1W0	Y1 Y5U-332M/500V	12	4.5	10	20	直脚
47	Y1332M2E1V1W0	Y1 Y5U-332M/500V	12	4.5	10	20	前后弯
48	Y1332M2E1K1W0	Y1 Y5U-332M/500V	12	4.5	10	20	双外 K
49	Y1472M0F1F1W0	Y1 Y5V-472M/500V	12	4.5	10	20	直脚
50	Y1472M0F1V1W0	Y1 Y5V-472M/500V	12	4.5	10	20	前后弯
51	Y1472M0F1K1W0	Y1 Y5V-472M/500V	12	4.5	10	20	双外 K
52	Y1472M3E1F1W0	Y1 Y5U-472M/500V	13	4.5	10	20	直脚
53	Y1472M3E1V1W0	Y1 Y5U-472M/500V	13	4.5	10	20	前后弯
54	Y1472M3E1K1W0	Y1 Y5U-472M/500V	13	4.5	10	20	双外 K
55							
56							
57							
58							
59							
60							
备注	根据陶瓷材料材质区分为：Y5P/Y5U/Y5V 代表 CLASS II 系列。						

续表/Continued

编带承认规格/Braid recognized specifications

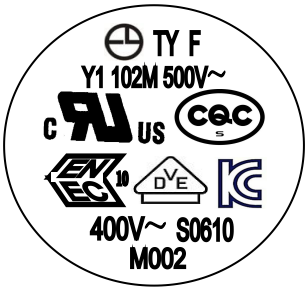
序号 Code	特锐祥料号 TRX P.N.	产品描述 Product description	D Max	T Max	F ± 0.8	L ± 2.0	P ± 1.0	脚型 Remarks
1	Y1101K8B1F4X0	Y1 Y5P-101K/500V	8	4.5	10	18	15.0	直脚
2	Y1101K8B1V4X0	Y1 Y5P-101K/500V	8	4.5	10	18	15.0	前后弯
3	Y1101K8B1K4X0	Y1 Y5P-101K/500V	8	4.5	10	18	15.0	双外 K
4	Y1221K8B1F4X0	Y1 Y5P-221K/500V	8	4.5	10	18	15.0	直脚
5	Y1221K8B1V4X0	Y1 Y5P-221K/500V	8	4.5	10	18	15.0	前后弯
6	Y1221K8B1K4X0	Y1 Y5P-221K/500V	8	4.5	10	18	15.0	双外 K
7	Y1331K8B1F4X0	Y1 Y5P-331K/500V	8	4.5	10	18	15.0	直脚
8	Y1331K8B1V4X0	Y1 Y5P-331K/500V	8	4.5	10	18	15.0	前后弯
9	Y1331K8B1K4X0	Y1 Y5P-331K/500V	8	4.5	10	18	15.0	双外 K
10	Y1471M8E1F4X0	Y1 Y5U-471M/500V	8	4.5	10	18	15.0	直脚
11	Y1471M8E1V4X0	Y1 Y5U-471M/500V	8	4.5	10	18	15.0	前后弯
12	Y1471M8E1K4X0	Y1 Y5U-471M/500V	8	4.5	10	18	15.0	双外 K
13	Y1471K8B1F4X0	Y1 Y5P-471K/500V	8	4.5	10	18	15.0	直脚
14	Y1471K8B1V4X0	Y1 Y5P-471K/500V	8	4.5	10	18	15.0	前后弯
15	Y1471K8B1K4X0	Y1 Y5P-471K/500V	8	4.5	10	18	15.0	双外 K
16	Y1681M7E1F4X0	Y1 Y5U-681M/500V	7	4.5	10	18	15.0	直脚
17	Y1681M7E1V4X0	Y1 Y5U-681M/500V	7	4.5	10	18	15.0	前后弯
18	Y1681M7E1K4X0	Y1 Y5U-681M/500V	7	4.5	10	18	15.0	双外 K
19	Y1681K9B1F4X0	Y1 Y5P-681K/500V	9	4.5	10	18	15.0	直脚
20	Y1681K9B1V4X0	Y1 Y5P-681K/500V	9	4.5	10	18	15.0	前后弯
21	Y1681K9B1K4X0	Y1 Y5P-681K/500V	9	4.5	10	18	15.0	双外 K
22	Y1102M8F1F4X0	Y1 Y5V-102M/500V	8	4.5	10	18	15.0	直脚
23	Y1102M8F1V4X0	Y1 Y5V-102M/500V	8	4.5	10	18	15.0	前后弯
24	Y1102M8F1K4X0	Y1 Y5V-102M/500V	8	4.5	10	18	15.0	双外 K
25	Y1102M8E1F4X0	Y1 Y5U-102M/500V	8	4.5	10	18	15.0	直脚
26	Y1102M8E1V4X0	Y1 Y5U-102M/500V	8	4.5	10	18	15.0	前后弯
27	Y1102M8E1K4X0	Y1 Y5U-102M/500V	8	4.5	10	18	15.0	双外 K
28	Y1102K0B1F4X0	Y1 Y5P-102K/500V	10	4.5	10	18	15.0	直脚
29	Y1102K0B1V4X0	Y1 Y5P-102K/500V	10	4.5	10	18	15.0	前后弯
30	Y1102K0B1K4X0	Y1 Y5P-102K/500V	10	4.5	10	18	15.0	双外 K
备注	根据陶瓷材料材质区分为：Y5P/Y5U/Y5V 代表 CLASS II 系列。							

续表/Continued

编带承认规格/Braid recognized specifications

序号 Code	特锐祥料号 TRX P.N.	产品描述 Product description	D Max	T Max	F ± 0.8	L ± 2.0	P ± 1.0	脚型 Remarks
31	Y1152M9F1F4X0	Y1 Y5V-152M/500V	9	4.5	10	18	15.0	直脚
32	Y1152M9F1V4X0	Y1 Y5V-152M/500V	9	4.5	10	18	15.0	前后弯
33	Y1152M9F1K4X0	Y1 Y5V-152M/500V	9	4.5	10	18	15.0	双外 K
34	Y1152M9E1F4X0	Y1 Y5U-152M/500V	9	4.5	10	18	15.0	直脚
35	Y1152M9E1V4X0	Y1 Y5U-152M/500V	9	4.5	10	18	15.0	前后弯
36	Y1152M9E1K4X0	Y1 Y5U-152M/500V	9	4.5	10	18	15.0	双外 K
37	Y1222M9F1F4X0	Y1 Y5V-222M/500V	9	4.5	10	18	15.0	直脚
38	Y1222M9F1V4X0	Y1 Y5V-222M/500V	9	4.5	10	18	15.0	前后弯
39	Y1222M9F1K4X0	Y1 Y5V-222M/500V	9	4.5	10	18	15.0	双外 K
40	Y1222M9E1F4X0	Y1 Y5U-222M/500V	9	4.5	10	18	15.0	直脚
41	Y1222M9E1V4X0	Y1 Y5U-222M/500V	9	4.5	10	18	15.0	前后弯
42	Y1222M9E1K4X0	Y1 Y5U-222M/500V	9	4.5	10	18	15.0	双外 K
43	Y1332M9F1F4X0	Y1 Y5V-332M/500V	9	4.5	10	18	15.0	直脚
44	Y1332M9F1V4X0	Y1 Y5V-332M/500V	9	4.5	10	18	15.0	前后弯
45	Y1332M9F1K4X0	Y1 Y5V-332M/500V	9	4.5	10	18	15.0	双外 K
46	Y1332M2E1F4X0	Y1 Y5U-332M/500V	12	4.5	10	18	15.0	直脚
47	Y1332M2E1V4X0	Y1 Y5U-332M/500V	12	4.5	10	18	15.0	前后弯
48	Y1332M2E1K4X0	Y1 Y5U-332M/500V	12	4.5	10	18	15.0	双外 K
49	Y1472M0F1F4X0	Y1 Y5V-472M/500V	12	4.5	10	18	15.0	直脚
50	Y1472M0F1V4X0	Y1 Y5V-472M/500V	12	4.5	10	18	15.0	前后弯
51	Y1472M0F1K4X0	Y1 Y5V-472M/500V	12	4.5	10	18	15.0	双外 K
52	Y1472M3E1F2X0	Y1 Y5U-472M/500V	13	4.5	10	18	12.7	直脚
53	Y1472M3E1V2X0	Y1 Y5U-472M/500V	13	4.5	10	18	12.7	前后弯
54	Y1472M3E1K2X0	Y1 Y5U-472M/500V	13	4.5	10	18	12.7	双外 K
55								
56								
57								
58								
59								
60								
备注	根据陶瓷材料材质区分为：Y5P/Y5U/Y5V 代表 CLASS II 系列。							

4.产品印标/Product marking

范例 / Example			

说明/ Explain		
TY		公司注册商标/品牌 registered trademark / brand
B/E/F		材质代码 code of Dielectric
Y1		安规类别 Safety class
102/471…		标称容量 Nominal capacity
M（±20%）/K(±10%)		容量允差 Capacity of tolerance
c UL us	UL 认证	安规认证标志 Safety certification mark
cqc	CQC 认证	
ENEC/VDE	ENEC/VDE 欧洲认证	
KC	KC 认证	
400V/500V~		UL VDE ENEC 电压 voltage for UL VDE ENEC
500V~		KC CQC 电压 voltage for KC CQC
S0610		日期代码 code of making time
M002		工厂代码 Factory code

5.日期代码/Date code

年代码 code of year				月代码 code of month		日代码 code of day			
year	code	year	code	month	code	day	code	day	code
		2020	M	1	01	1	01	16	16
		2021	N	2	02	2	02	17	17
2010	A	2022	P	3	03	3	03	18	18
2011	B	2023	R	4	04	4	04	19	19
2012	C	2024	S	5	05	5	05	20	20
2013	D	2025	T	6	06	6	06	21	21
2014	E	2026	U	7	07	7	07	22	22
2015	F	2027	V	8	08	8	08	23	23
2016	H	2028	W	9	09	9	09	24	24
2017	J	2029	X	10	10	10	10	25	25
2018	K			11	11	11	11	26	26
2019	L			12	12	12	12	27	27
						13	13	28	28
						14	14	29	29
						15	15	30	30
								31	31

注：年份代码每 20 年为一周期重复一次。

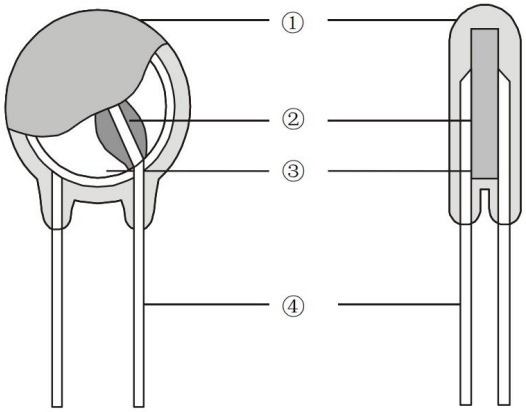
Note: the year code repeats once every 20 years for a one-week period.

6.认证证书/Certificates

认证证书 certificates			
认证机构 Certification	参考标准 Standard number	证书号 Certificate number	认证电压 Certified voltage
UL/CUL	UL 60384-14 2010 CSA E60384-14:09	E315719	Y1 TY AC400/500V
CQC	IEC 60384-14:2005	CQC14001107432	Y1 TY AC500V
VDE	EN60384-14:2005-08 IEC 60384-14:2013	40031733	Y1 TY AC 400V/500V
KC	KC 60384-14(2015-09) KC 60384-1(2015-09)	HU03034-17001A	Y1 TY AC 500V

7.产品结构/ Product structure

7.1 产品构造/Product structure

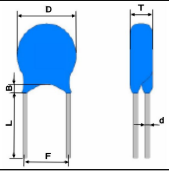
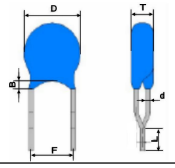
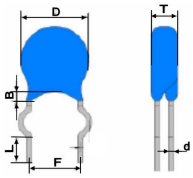


N0.	组成 /constituent	材料 /material
①	包封层 Coating	环氧树脂 Epoxy molding compound
②	焊料 Solder	Sn99.0-Pb-Ag1.0 焊料 Sn99.0-Pb-Ag1.0 solder
③	芯片 Chip	陶瓷芯片 Ceramic chip
④	引线框架 Lead Frame	CP 线 CP wire

7.2 产品尺寸/Product Dimension

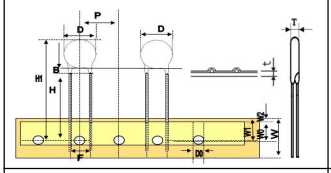
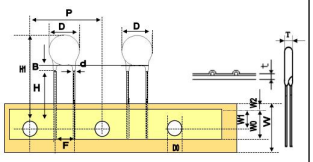
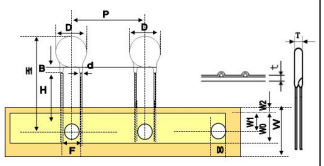
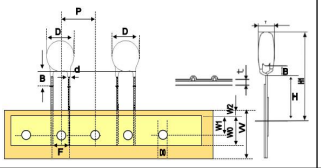
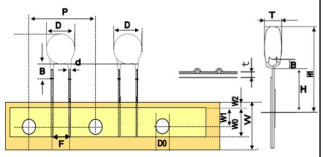
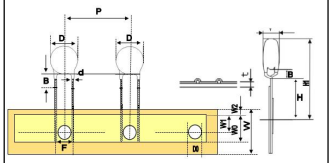
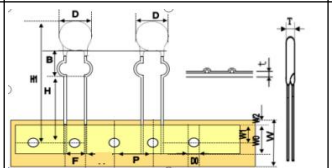
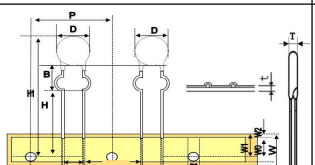
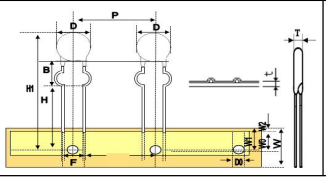
7.2.1 散件产品尺寸（实际尺寸及脚长，根据型号及客户需求为准）

Size of the product (actual size and foot length, subject to model and customer needs)

脚型	产品图示	外形尺寸误差					
		D	T	B	L	F	d
F		Max	Max	≤2.5	短脚：≤4±0.5 短脚：>4±1.0 长脚：20Min	±0.8	±0.05
V		Max	Max	≤2.5	短脚：≤4±0.5 短脚：>4±1.0 长脚：20Min	±0.8	±0.05
K		Max	Max	≤2.5	短脚：≤4±0.5 短脚：>4±1.0 长脚：20Min	±0.8	±0.05

7.2.2 编带产品尺寸（实际尺寸及脚长，根据型号及客户需求为准）

Taping product size (actual size and foot length, subject to model and customer needs)

脚型	产品图示	外形尺寸误差									
		B Max	H ±2.0	H1 Max	P ±1.0	t Max	D0 ±0.2	W ±0.5	W0 Max	W1 ±0.5	W2 ±1.0
F		2.5	18.0	37.0	12.7	1.0	4.0	18.0	10.0	9.0	2.0
		2.5	18.0	37.0	12.7	1.0	4.0	18.0	10.0	9.0	2.0
		2.5	18.0	37.0	15.0	1.0	4.0	18.0	10.0	9.0	2.0
V		6.0	18.0	37.0	12.7	1.0	4.0	18.0	10.0	9.0	2.0
		6.0	18.0	37.0	12.7	1.0	4.0	18.0	10.0	9.0	2.0
		6.0	18.0	37.0	15.0	1.0	4.0	18.0	10.0	9.0	2.0
K		6.0	18.0	37.0	12.7	1.0	4.0	18.0	10.0	9.0	2.0
		6.0	18.0	37.0	12.7	1.0	4.0	18.0	10.0	9.0	2.0
		6.0	18.0	37.0	15.0	1.0	4.0	18.0	10.0	9.0	2.0

8.性能测试/ Performance test:

NO	项目 Item		性能 Performance	测试方法 measuring method
1	目视检查 Visual examination		无可见损伤、标记清晰、引线框架无氧化、表面无杂物 No visible damage、 legible marking、 lead frame is not oxidation and its surface is without sundries.	肉眼或放大镜 unaided eye or magnifier
2	尺寸 Dimension		见表 accorder Table	游标卡尺 vernier caliper
3	印字 Printing		见图 accorder design	放大镜 magnifier
4	耐压 Voltage proof	引线之间 Between lead wire	没有永久性的损坏或测试期间无闪络 No permanent break-down or flashover during the test period	测试电压 test voltage: 4000VAC 频率 frequency: 50/60Hz 持续时间 duration: 60 seconds 漏电流 leakage current: 5mA max
		绝缘体 Body insulation	没有永久性的损坏或测试期间无闪络 No permanent break-down or flashover during the test period	测试电压 test voltage: 4000VAC 频率 frequency: 50/60Hz 持续时间 duration: 60 seconds 漏电流 leakage current: 5mA max
5	电容量 Capacitance		规定的公差 Within specified tolerance K: ±10% M: ±20%	温度 Temperature: 25±3℃ 湿度 Humidity: 55±30%RH 电压 Voltage:1.0±0.2V 频率 Frequency: 1±0.2KHZ
6	损耗因数 Dissipation factor		规定的公差 Within specified tolerance Y5P: ≤2.5% Y5U: ≤2.5% Y5V: ≤2.5%	温度 Temperature: 25±3℃ 湿度 Humidity: 55±30%RH 电压 Voltage:1.0±0.2V 频率 Frequency: 1.0±0.2KHZ
7	电容器的温度特性 Capacitor-temperature characteristic		Y5P: ±10% Y5U: +22%~-56% Y5V: +22%~-82%	耐温性 Temperature tolerance:±2℃ step 1 2 3 4 5 Tem (℃) +20 -25 +20 +85 +20 △=（C_X-C_0）/C_0 C_X capacitor for step2,4 C_0 capacitor for step 3
8	绝缘电阻 Insulation resistance	引线之间 Between lead wire	10000MΩ MIN	用 DC500±50V 充电 60±5s 来测量绝缘电阻。电压应通过 1MΩ 的电阻器施加到电容器上. The insulation resistance shall be measured with DC500±50V within 60±5s of charging. The voltage should be applied to the capacitor through a resistor of 1MΩ.
		绝缘体 Body insulation	10000MΩ MIN	

续表 Continued

NO	项目 Item		性能 Performance		测试方法 measuring method
9	端坚固性 Robustness of terminations	承受拉力 Tensile	force:>10N		固定电容本体和引线端，使得引线的轴垂直向下，在引线上施加轴向拉力 Fixed capacitor'body and Lead Terminals.Apply axial tension on the lead wire by making the axis of the lead wire perpendicular downwards
		使弯曲 Bending	导线不得断裂 电容器不被破坏 无可见损伤 Lead wire shall not cut off. Capacitor shall not be broken. No visible damage.		每个方向各连续两次弯曲 Two consecutive bends shall be applied in each direction
10	耐焊接热 Resistance to soldering heat		目视检查 visual examination	无可见损伤 no visible damage	焊接温度 Solder temperature:260±5℃ 浸入时间 Immersion time:10±1seconds 电容器本体距熔融焊料 The distance between the capacitor body and the molten solder:1.5-2.0m 测量前电容应放置在 25±3℃下 24±2 小时 Capacitor shall be placed at 25±3℃ for 24±2h before initial measurements.
			损耗因子 D.F.	Y5P: ≤2.5% Y5U:≤2.5% Y5V: ≤2.5%	
			容量变化 Capacitance change	Y5P: ±10% Y5U: ±20% Y5V: ±20%	
			绝缘电阻 I.R.	见 NO.8 Pass the item NO.8	
			耐压 voltage proof	见 NO.4 Pass the item NO.4	
11	可焊性 Solderability		包锡良好（上锡率 90%以上），在 3 秒内流合。 Good tin coating (tin rate above 90%), within 3 seconds of convergence.		在焊料溶液中浸泡:2±0.5s。 Immerse in solder solution for :2±0.5s. 焊料温度:235±5°C Temp. of solder: 235±5°C 电容器本体距熔融焊料：1.5-2.0mm The distance between the capacitor body and the molten solder:1.5-2.0m
12	振动 Vibration		电容器无可见损伤 Capacitor shall not visible damage		频率范围 Frequency rangs: 10→55→10Hz 振幅 swing:0.75mm, 总时间为 6 小时 The total duration shall be 6 hours. 在 X,Y,Z 曝光时间为 2 小时 duration of exposure at X,Y,Z：2hours

续表 Continued

NO	项目 Item	性能 Performance		测试方法 measuring method
13	温度 快速变化 Rapid change of temperature	外观 Appearance	无可见损伤 No visible damage	上限类别温度:+125±3℃ upper category temperature:+125±3℃ 下限类别温度: -25±3℃ lower category temperature:-25±3℃ 循环次数 number of cycles : 5 在温度范围的曝光时间:30 分钟 duration of exposure at the temperature limits:30minutes 测量前电容应放置在 25±3℃下 24±2 小时 Capacitor shall be placed at 25±3℃ for 24±2h before initial measurements.
		容量变化 Capacitance change	Y5P: ±10% Y5U: ±20% Y5V: ±20%	
		损耗因子 D.F.	Y5P: ≤2.5% Y5U:≤2.5% Y5V: ≤2.5%	
		绝缘电阻 I.R.	见 NO.8 Pass the item NO.8	
		耐压 voltage proof	见 NO.4 Pass the item NO.4	
14	湿热（稳态） Damp heat (steady state)	目视检查 visual examination	无可见损伤 No visible damage	测试温度 test temperature: 40±2℃ 湿度 humidity: 95±3%RH 持续时间 duration: 500+24/-0hours 电压: 一半的样本加 U_R(500V)，另一半不加电压。 voltage: Apply U_R(500V) to half of the samples and no voltage to the other half. 测量前电容应放置在 25±3℃下 24±2 小时 capacitor shall be placed at 25±3℃ for 24±2hours beforemeasurements.
		电容量 Capacitance	△=(C_X-C_0)/C_0 Y5P△: ±10% Y5U△: ±15% Y5V△: ±15%	
		损耗因子 D.F.	Y5P: ≤5.0% Y5U:≤5.0% Y5V: ≤5.0%	
		绝缘电阻 I.R.	≥3000MΩ △=(R_x-R_0)/R_0	
		耐压 voltage proof	见 NO.4 Pass the itemNO.4	
15	充放电 Charge and Discharge	电容量 Capacitance	△=（C_X-C_0）/C_0 Y5P△: ±10% Y5U△: ±15% Y5V△: ±15%	充电电压 Charge voltage: 707VAC($\sqrt{2}U_R$) 循环次数 number of cycles:10000 充电时间 Charge time:3s 放电时间 Discharge time:2s 每个电容器应通过与电阻值施加测试电压单独充电 Each capacitor shall be individuallycharged by applying the test voltage through a resistor with the value $R=\frac{220\times10^{-6}}{C_R}\ \Omega$ 测量前电容应放置在 25±3℃下 24±2 小时 Capacitor shall be placed at 25±3℃ for24±2hours before measurements
		损耗因子 D.F.	Y5P: ≤5.0% Y5U:≤5.0% Y5V: ≤5.0%	
		绝缘电阻 Insulation resistance	≥3000MΩ	

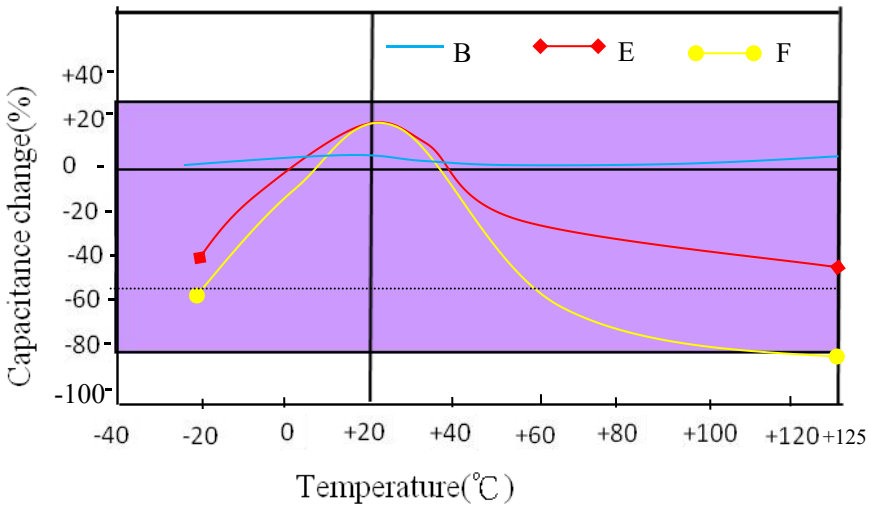
续表 Continued

NO	项目 Item	性能 Performance	测试方法 measuring method
16	脉冲电压 Impulse voltage	试验期间没有永久性击穿或闪络 No permanent breakdown or flashover during the test period. 如果连续三次的冲击示波器监测显示有波形表明在电容器没有发生自愈的故障或闪络，并没有进一步的脉冲，电容器应算作合格 If any three successive impulses are shown by the oscilloscope monitor to have Hada wave for mindicating thatnoself-healingbreakdowns or flashovers have taken place in the capacitor, then no further impulses shall be applied and the capacitor shall be counted as conforming. 如果所有 24 个脉冲被应用到电容器，显示 3 个或更多的波形表示没有自愈的故障或闪络发生，电容器应算作合格。If all 24 impulses have been applied to the capacitor and 3 or more of them are of a waveform indicating that no self-healing breakdowns or flashovers have occurred, then the capacitor shall be counted as conforming. 如果规定波形的脉冲少于三个，则电容器应视为不合格项目。 If less than three impulses are of the required waveform, then the capacitor shall be counted as a nonconforming item.	脉冲峰值电压 Peak impulse voltage:8.0KV 脉冲间隔时间 Impulses distance：＞10s 脉冲次数 Impulses times:24

续表 Continued

NO	项目 Item	性能 Performance		测试方法 measuring method
17	耐久性 Endurance	目视检查 visual examination	无可见损伤 No visible damage	测试温度 Test temperature: 125±3℃ 持续时间 Duration: 1000+24/-0hours 测试电压 test voltage 850VAC（1.7UR）除了每小时一次的电压应增加至 1000V 的均方根 0.1s。 850VAC（1.7UR），except that once every hour the voltage shall be increased to 1000v r.m.s. for 0.1s. 这些电压应施通过加到每个电容器分别 47Ω±5%电阻 Each of these voltage shall be appliedTo each capacitor individually through a resistor of 47Ω±5%. 测量前电容应放置在 25±3℃下 24±2 小时 capacitor individually through a resistor of Capacitor shall be placed at 25±3℃ for 24±2hours before measurements.
		电容量 Capacitance	△=(C_X-C_0)/C_0 Y5P△: ±10% Y5U△: ±15% Y5V△: ±15%	
		损耗因子 D.F.	Y5P: ≤5.0% Y5U:≤5.0% Y5V: ≤5.0%	
		绝缘电阻 I.R.	≥3000MΩ	
		耐压 voltage proof	见 NO.4 Pass the item NO.4	
18	阻燃性 Passive flammability	级别 category：B 任何试样的燃烧时间不超过指定的时间。The burning time of any specimen shall not exceed the time specified. 液滴燃烧或灼热的部分为不点燃纸巾。Burning droplets or glowing parts falling down shall not ignite the tissue paper.		电容器体积 Capacitance volume / 火焰时间 flame time / 最大燃烧时间 Maximum burning time V<250mm³ / 10S / ≤10S 250<V≤500mm³ / 20S / ≤10S 500<V≤1750mm³ / 30S / ≤10S V>1750mm³ / 60S / ≤10S
19	耐溶剂性 Component solvent Resistanc	无可见损伤 No visible damage. 按照 NO.4~NO.8 性能 Performance according to No.4 ~ No.8		使用的溶剂：30±5%异丙醇和 70±5%微化物 Solvent to be used: 30±5%alcohol and 70±5%fluxional compound 溶剂温度/Solvent temperature:23±5℃ 电容器应浸没在溶剂中 5±0.5 分钟。 The capacitor shall be immerged in solvent for 5±0.5minutes. 恢复时间/Recovery time: 8hours
20	标志耐溶剂性 Solvent resistance of the marking	标志应清晰 The marking shall be legible		使用的溶剂：30±5%异丙醇和 70±5%微化物 Solvent to be used: 30±5%alcohol and 70±5%fluxional compound 溶剂温度/Solvent temperature: 23±5℃ 电容器应浸没在溶剂中 5±0.5 分钟，用纱布擦拭标志 10 次。 The capacitor shall be immerged in solvent for 5±0.5minutes and its markshall be wiped with pledget for 10times.

9.电容温度特性/Capacitor temperature characteristic



10.有毒有害物质含量控制要求

Requirements for concentration limits for certain hazardous substances

RoHS2.0 2011/65/EU

卤素/halogen

REACH No190 7/2006

RoHS H.F.
REACH

物质名称 Substances	含量 concentration (unit: ppm)
镉及镉化合物 Cadmium and cadmium compounds	<100
铅及铅化合物 Lead and lead compounds	<1000
汞及汞化合物 Mercury and mercury compounds	<1000
铬及铬化合物 Hexavalent chromium compounds	<1000
多溴联苯 PBBSPolubrominated biphenyls	<1000
多溴联苯醚 PBDESPolubrominated diphenylethers	<1000
镉+铅+汞+六价铬 Cd+Pb+ Hg + Cr^{+6}(packing materials)	<100
氯 Cl	<900
溴 Br	<900
氯+溴 Cl+Br	<1500
REACH 高度关注物质 SVHC Substances of Very High Concern (SVHC) of REACH	以 TRX 最新 REACH 报告为准 The latest reach report of TRX shall prevail

11. 贮存条件/Storage conditions

⑴. 防潮，防尘，防压，防跌倒，防酸碱物质，避免阳光直射和结露。

The capacitors are must not stored in a corrosive atmosphere, where sulphide or chloride gas,acid,alkali or salt are present. Exposure of the components to moisture, should be avoided.

⑵. 电容器可在额定的气侯类别温度范围内短期（3 个月）贮存。

Capacitors can be stored for short periods at any temperature within the entire range of category temperature.

⑶. 电容器长时间贮存应需要满足下列条件：

For long storage periods, however, the following conditions should be observed:

■贮存温度：10 to +30℃

Storage temperature:10 to +30℃

■贮存湿度：不超过 80%，并无结露现象

Maximum relative humidity 80%,no dew allowed on the capacitor.

■贮存期限：最大 24 个月

Maximum duration 24months.

12.0 包装数据表/Product Packaging Scheme

内包装/Spare parts inner-packaging:

散件
Spare parts

编带
Brai

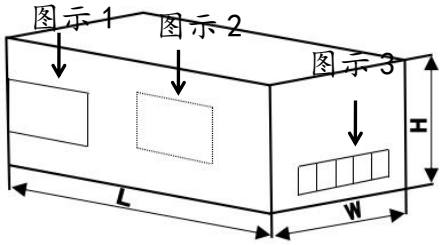
产品信息标签
Product information label

BZ	尺寸 Dimension	引线长度 Lead length	每袋/盒 Bag
散件 Spare parts	ΦD<8mm	≤10mm	1000PCS
		>10mm	500PCS
	ΦD≥8mm	500PCS	
编带 Braid	/	1000PCS	

项目/Item	
TRX.Des	物料描述
P/N	客户料号
Mfr	特锐祥料号
D/C	生产日期
Lot.No	生产批号
Q'TY	数量
SPEC	规格

Continued 续表

散件内包装/Spare parts inner-packaging:



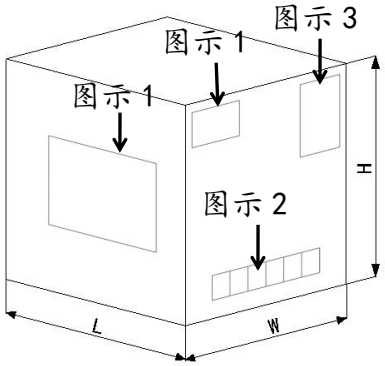
图示 1/Figure 1

图示 2/Figure 2

图示 3/Figure 3

尺寸(mm) Dimension			数量 Quantity	外箱重量 Out Box Weight
L	W	H	视产品而定 Depening on the product	
235	139	84		

散件外包装/Spare parts outer-packaging:



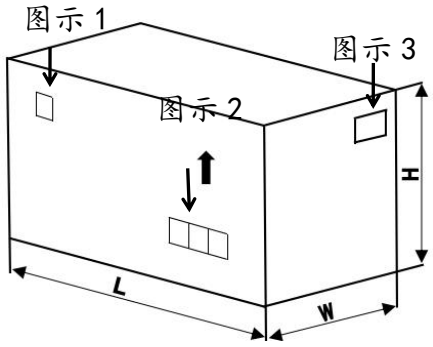
图示 1/Figure 1

图示 2/Figure 2

图示 3/Figure 3

尺寸(mm) Dimension			数量 Quantity	外箱重量 Out Box Weight
L	W	H	视产品而定 Depening on the product	
300	250	200		

编带外包装/Braid parts outer-packaging:



图示 1/Figure 1

图示 2/Figure 2

图示 3/Figure 3

尺寸(mm) Dimension			数量 Quantity	外箱重量 Out Box Weight
L	W	H	10KPCS	视产品而定 Depening on the product
528	355	258		

Continued 续表

散件包装示意图/Spare parts Package sketch:

内盒
Inner box

外箱
Out Box

4 盒/箱
4Box /OutBox

托盘尺寸(长/宽/高)
Pallet Size(L/W/H)
1100*1100*90mm

堆放体积(长/宽/高)
Stacking volume(L/W/H)
1100*1100*1600mm

编带包装示意图/Braid Package sketch:

外箱
Out Box

10 盒/箱
10Box /Out Box

托盘尺寸(长/宽/高)
Pallet Size(L/W/H)
1100*1100*90mm

堆放体积(长/宽/高)
Stacking volume(L/W/H)
1240*1240*1400mm

备注:
Remark:
1.包装箱上的“5”是堆叠层数不能超过 5 层;
The 5 on the packing is stacked layers can't more than 5 layers;
2.PALLET 包装& 远距离运输时 WRAPPING;
Pallets packaging & long-distance transport should be warpping;
3.50cm 以上高度不可抛落下;
50 cm above the height of the parcel do not drop;
4.常温/常湿保管。
Normal temperature / humidity keeping.

13. 敬告和警告 Cautions and warnings

1.用户进行的重复耐电压试验可能损坏电容器，故试验后的电容器不可以当合格品再使用。
Attention is drawn to the fact that repetition of the voltage proof test by the user may damage the capacitor.

2.电容器在 PCB 板上安装时要求 PCB 板孔径需与电容器脚距相吻合，相反可能会导致电容器与 PCB 板焊接不良，电容器引脚断裂或本体破坏而损坏电容器。
Do not place the capacitor a PC board whose hole space differs from the specified lead space.

3.避免任何挤压，弯折，外部撞击。Avoid any compressive, tensile or flexural stress.

4.在电容器上进行树脂成型时，应事先咨询我司相关技术人员。
Please consult us first if you wish to embed the capacitor in plastic resins.

5.焊接于 PCB 板的电容器不可用力移动或将本体用力倾斜。
Do not move the capacitor after it has been soldered to the board.

6.不可于焊接于 PCB 板后的电容将板提取，可能破坏电容焊接和包封层破损。
Do not pick up the PC board by the soldered capacitor.

14.电容高压测试操作指引 Voltage proof test guide

A. 正确方法/Correct Method

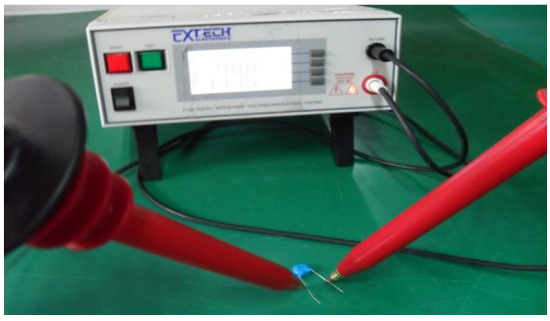
操作说明/Operate explain:

(1). 设定耐压仪测试电压，电流，测试时间。
Set up test voltage , current and time in high voltage instrument.

(2). 将电容两引脚夹于高压输出端夹具上，使引脚与夹具接触牢固。
The two pins of capacitor are nipped in fixture of high voltage instrument.

(3). 按下启动按钮，电压输出，电容进行高压测试，测试时间完成时，耐压仪自动切断电压输出。
Give the start button a slight press and the capacitor changed and tested, high voltage instrument stop output when the time arrived.

B. 错误方法/Error Method



描述 Operate explain:

直接用带电的测试棒去接触电容的两引脚进行测试。
Capacitor was test with high voltage test probe for electriferous touch the two pins of capacitor.