š / attached sheet !

U ŸL /Recognized specifications

Ü /CODE	º x Ü / CUSTOMER P.N.	‹ , ¶ x Ü /TRX P.N.	Ÿ L ø Ü /MODEL NO.	•_ / REMARKS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
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12				
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14				
15				
16				
17				
18				
19				
20				

‘ Y ì ^¬ … G (v U à Ÿ L ø Ü \!

Á U ¢ Q • G (B â 1 ¶ 1000V ì (³ K 4 Ñ â 1 ¶ 100Hz (•(w •• d

About Y AC ceramic fixed capacitor acknowledgement specifications description:

Y1 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.

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1.How to order 6` \!

Y1	F	222	M	064	X	280	A
Class	Dielectric	Capacitance	Tolerance	Dielectric diameter	Leads spacing	Leads length	Lead Type

è ¶ µ + ø /type ! Y

é ¶ µ 1 g , ô g ‹ ÿ /Temperature coefficient or characteristic !Y5P/Y5U/Y5V

ê ¶ µ ³ K h / Nominal capacity !

Y5P(h æ * /Capacity unit ! PF)											
Ý ò /CODE	101	151	221	271	331	391	471	561	681	821	102
³ K ħ Nominal capacity	100	150	220	270	330	390	470	560	680	820	1000
Y5U(h æ * /Capacity unit ! PF)											
Ý ò /CODE	471	102	152	222	272	332	392	472			
³ K ħ Nominal capacity	470	1000	1500	2200	2700	3300	3900	4700			
Y5V(h æ * /Capacity unit ! PF)											
Ý ò /CODE	471	102	152	222	272	332	392	472			
³ K ħ Nominal capacity	470	1000	1500	2200	2700	3300	3900	4700			

ë ¶ µ h m b /Capacity of allowable error !

m b / Permissible error	Y5P	Y5U	Y5V
	• 10%	• 20%	• 20%

ì ¶ µ) E /Medium diameter!

Y5P( ) E æ*! mm d !• 1.0)											
h Ý ò	101	151	221	271	331	391	471	561	681	821	102
) E	6.5	6.5	6.5	6.5	7.5	8.5	8.5	9.5	9.5	10.	11.
Y5U( ) E æ*! mm d !• 1.0)											
h Ý ò	471	102	152	222	272	332	392	472			
) E	6.5	7.5	9.0	11.	12.	12.	13.	15.			
Y5V( ) E æ*! mm d !• 1.0)											
h Ý ò	471	102	152	222	272	332	392	472			
) E	6.5	6.5	7.5	8.5	9.0	10.	11.	11.			

í ¶ µ ö o /Pitch! d !• 0.8

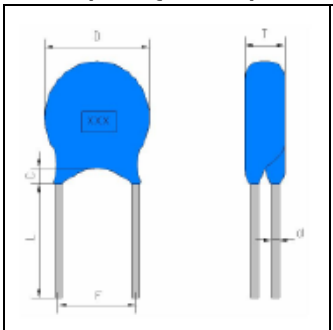
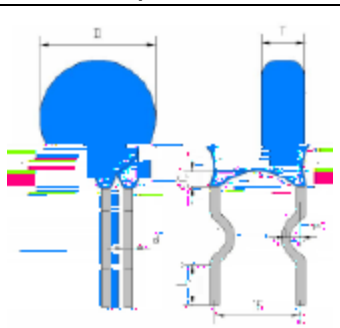
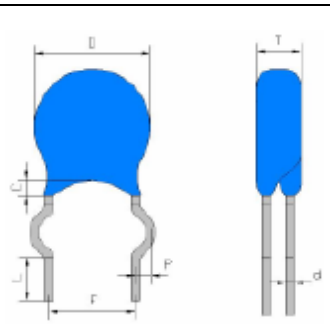
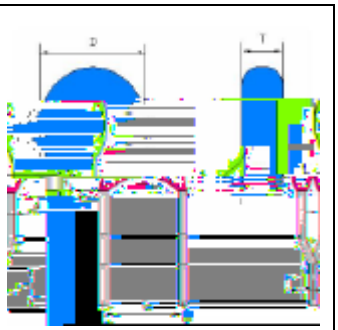
Y1 ä Y2 + ¢ N 10.0mm ä 7.5mm f 5 (Î Y1 + 10.0mm Y2 + 7.5mm d

î ¶ µ ö) /Feet Long!

³ y! 0 L • 28.0

¶ µ H"! 280 28.0 028 2.8

ï ¶ µ ä { ö ù q /Pin shape!

			
A ø	B ø	C ø	D ø
ö ø	• õ ø	ó õ ø	• õ ø

» h ” þ R 5 Ý ò ‡ d Ÿ G ³ y ë !

/ Various code mentioned above for the company standard application!

2. U ŸLdÊÂæ /Admit size list!

Ü /CODE	º xÜ CUSTOMER P.N.	‹,¶xÜ TRX P.N.	D• 1.0	T• 1.0	Lmin	F• 0.8	”d• 0.5	Bmax2.0
1								
2								
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22								
23								
24								
25								

5. ÿ Ÿ Ë / Performance test !

NO	Item »,	

Continued # ¶

NO	Item »,	Performance ÿ Ÿ	

Continued #¶

NO	Item »,	Performance ÿ Ÿ		measuring method Ë º ¥
12	4.6 Rapid change of temperature 1 g Ù . - $	visual examination ,Ê ¿	No visible damage M ¶ Î E d	upper category temperature h « + ¹ 1 g +125 • 3 § lower category temperature • « + ¹ 1 g -25 • 3 § number of cycles :5 duration of exposure at the temperature limits ! 30minutes } 1 g ³ W › ¨ · ! 30 Ó 2 Capacitor shall be placed at 25 • 3 § for 24 • 2h before initial measurements. h • (ë Â " } 25 • 3 § • 24 • 2 Ì ¨
		voltage proof • B	accorder 4.2.1 Î 4.2.1	
		Capacitance (h	Y5P: • 10% Y5U: • 20% Y5V: • 20%	
		dissipation factor Ê Û Ù ô	Y5P: • 2.5% Y5U: • 2.5% Y5V: • 2.5%	
		Insulation resistance ‡ X (¥	accorder 4.2.5	
13	4.7 Vibration ò N	Capacitor shall not visible damage (v M ¶ Î E d		Frequency rangs: 4 Ñ ³ 10 » 55 » 10Hz swing: ò ö 0.75mm, The total duration shall be 6 hours. ™ ¨ · 6 Ì ¨ duration of exposure at X,Y,Z ! 2hours } X Y Z W › ¨ · 2 Ì ¨
14	4.12 Damp heat (steady state) i 7 _	visual examination ,Ê ¿	No visible damage M ¶ Î E d	test temperature: Ë 1 g 40 • 2 § humidity: ¡ g 95 • 3%RH duration: [# ¨ · 500+24/-0hours voltage: 500VAC U_R for one half of the samples. , ‡ ¢ V U_R 500V capacitor shall be placed at 25 • 3 § for 24 • 2hours before measurements. h • (ë Â " } 25 • 3 § • 24 • 2 Ì ¨
		Capacitance (h	¸ =(C_x-C_0)/C_0 ¸ : • 15%	
		voltage proof • B	accorder 4.2.1	
		Insulation resistance ‡ X (¥	ž 3000M & ¸ =(R_x-R_0)/R_0 ¸ >50%	

Continued #¶

NO	Item »,	Performance ÿŸ	measuring method Ë°¥
15	4.13 Impulse voltage ýj(B	No permanent breakdown or flashover during the test period. Ër Y· R ÿ lŒ g Z î If any three successive impulses are shown by the oscilloscope monitor to havehadawaveformindicating thatnoself-healingbreakdowns or flashovers have taken place in the capacitor, then no further impulses shall be applied and the capacitor shallbecountedasconforming. "´U#8± jlµÏv ³ ¡µ Ïù¶\}(v Ÿ“‘? ƒÐgZî É)¢ä ýj (v ë8´æL 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. "´ N 24 Qýj„ë þ(v ¡µ 3 QgW• Ïù¶ µ ‘? ƒÐgZîŸ “ (vë8´âæLd If less than three impulses areoftherequiredaveform,then the capacitor shall be counted as a nonconforming item. "´r 8 jNN‘ Ð Ïù ö (vëÊ âæL»,d	Peak impulse voltage: ýjâ (B 8.0KV Impulses distance : ýjo6% 10seconds Impulses times: ýj¨· 24

Continued #¶

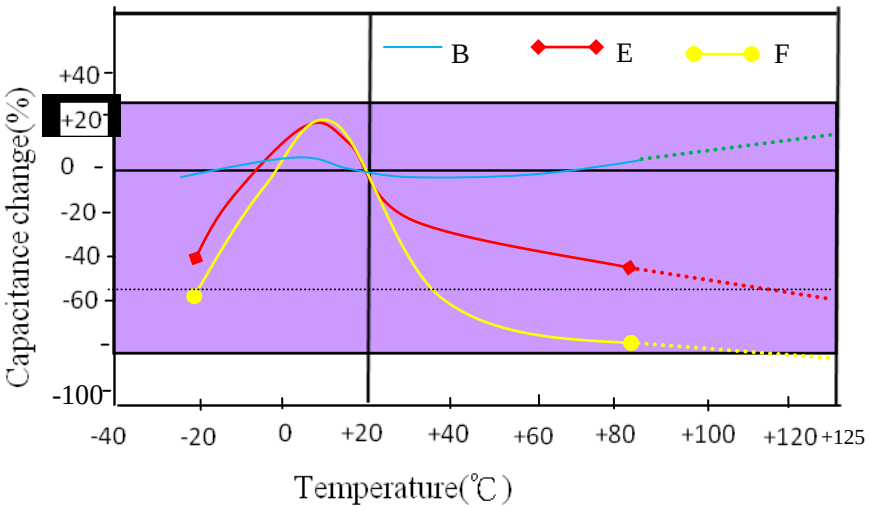
NO	Item »,	Performance ÿ Ÿ		measuring method Ë º ¥
16	4.14 Endurance [R ÿ	visual examination , Ê ¿	Novisibledamage M ¶ Î E d	Test temperature: Ë 1 g 125 • 3 § Duration: [# ¨ · 1000+24/-0hours test voltage: Ë (B 850VAC 1.7UR except that once every hour the voltage shall be increased to 1000v r.m.s. for 0.1s. 850 VAC UR , t $ Ì ¨ ¢ ± (B ë ™ ¦ 1000V ˆ º T 0.1s d Each of these voltage shall be applied To each capacitor individually through a resistor of 47 & • 5%. ã Ô (B ë ¹ ¶ ¦ þ $ Q (v Ó ¹ 47 & • 5% (¥ Capacitor shall be placed at 25 • 3 § for 24 • 2hours before measurements. h • (ë Â " } 25 • 3 § • 24 • 2 Ì ¨
		Capacitance (h	¸ = (Cx-C0)/C0 ¸ : • 20%	
		voltage proof • B	accorder 4.2.1	
		Insulation resistance ‡ X (¥	ž 3000M & ¸ =(Rx-R0)/R0 ¸ >50%	
17	4.15 Charge and Discharge i Â (	Capacitance (h	¸ = Cx-C0 /C0 ¸ : • 20%	Charge voltage: i ((B 707VAC(• 2UR) number of cycles: 6 , ± ô 10000 the rate of approximately: Ö . g one operation per second. $ P ¢ ± ´ Each cycle shall consist of charging and discharging the capacitor. $ Q ; Y (v Ü i Â (Each capacitor shall be individually charged by applying the test voltage through a resistor with the value $ Q (v ë ¹ ¶ 0 (¥ ¦ Ë (B æ _ i ($R=\frac{220\ \ 10^{-6}}{C_R}\ \Omega$ Capacitor shall be placed at 25 • 3 § for 24 • 2hours before measurements. h • (ë Â " } 25 • 3 § • 24 • 2 Ì ¨
		Insulation resistance ‡ X (¥	ž 3000M & ¸ = Rx-R0 /R0 ¸ >50%	
18	4.17 Passive flammability ¥ ÷ ÿ	category ! ‰ ¹ B The burning time of any specimen shall not exceed the time specified. å Ë , ÷ n ¨ · â 1 ¶ G ¨ · d Burning droplets or glowing parts falling down shall not ignite the tissue paper. ¡ ÷ n g ƒ æ Ó â $ ÷ d		category ! ‰ ¹ B

volume ranges h ³	flame time e ¨ .	Maximum burning time « Ö ÷ n ¨ ·
V<250mm³	5S	• 30S
250<V • 500mm³	10S	• 30S
500<V • 1750mm³	20S	• 30S
V>1750mm³	30S	• 30S

Continued #¶

NO	Item »,	Performance ÿ Ÿ	measuring method Ë º ¥
19	4.19 Component solvent Resistanc • ”ÿ	No visible damage. Performance accorder 4.2.1~4.2.5 M¶ÎE d Ö 4.2.1 ~ 4.2.5 ÿ Ÿ	Solvent to be used: ° ” 30 • 5%isopropyl alcohol and 70 • 5%fluxional compound 30 • 5% Ó Ä Ÿ ä 70 • 5% $^ Solvent temperature: ”1 g 23 • 5 § The capacitor shall be immerged in solvent for 5 • 0.5seconds. (v ë/ } ”/ 5 • 0.5 P d Recovery time: K ¨· 8hours
20	4.20 Solvent resistanc e of the marking ³ • ”ÿ	The marking shall be legible ³ ë Â i	Solvent to be used: ° ” 30 • 5%isopropyl alcohol and 70 • 5%fluxional compound 30 • 5% Ó Ä Ÿ ä 70 • 5% $^ Solvent temperature: ”1 g 23 • 5 § The capacitor shall be immerged in solvent for 5 • 0.5seconds and its markshall be wiped with pledget for 10times. (v ë/ } ”/ 5 • 0.5 P M ã è º ³ 10 ±

6. (1 g ‹ ÿ !



7.Climatic category w +¹

According to EIA STANDARD RS 198

Tl,Bõ¹?y³y RS 198

40 / 085/ 21

Category temperature lower limit in days	Upper category temperature	Steady state damp heat test time
+¹1g•«	+¹1ghˆ«	7_¡ Ër¨·Ÿô
1st SET	2nd SET	3rd SET

1st SET ! Minimum ambient temperature of operation (Cold test) ´ « ,B1g /_ Ër

2nd SET ! Maximum ambient temperature of operation (Dry heat test) nû «:,B1g $ Ër

3rd SET ! Number of days (Damp heat steady state test) Ÿô 7_¡ Ër

Category Examples ‰hH according to IEC 60068-1 Tl IEC 60068-1
25/085/04
25/085/21
40/085/21
55/125/21
55/125/56

First set ¢¦ Two digits denoting the minimum ambient temperature of operation (Cold test) f*ô"¶µ ´ « ,B1g /_Ër	
65	-65 §
55	-55 §
40	-40 §
25	-25 §
10	-10 §
00	0 §
05	+5 §

Second set •¦ Three digits denoting the maximum ambient temperature of operation (Dry heat test) 8*ô¶µ «Ö]´,B1g$ Ër	
155	+155 §
125	+125 §
110	+110 §
085	+85 §
080	+80 §
075	+75 §
070	+70 §

Third set 8¦ Two digits denoting the number of days(Damp heat steady state test) f*ô"¶µ ô Ÿ 7_¡ Ër	
56	56 days
21	21 days
10	10 days
04	4 days
00	The component is not required to be exposed to damp heat. ¦Ñâ 'r½ ¡

8. æ

NO	COUNTRY	STANDARD NO.		CLASS TYPE W.V C.C P.F.C	FILE NO.	MARK
1	GERMANY EUROPE	VDE	DIN EN 60384-14 (VDE 0565 Teil 1-1): 2006-04 EN60384-14:2005-08 IEC 60384-14(ed.3)	Y1 TY AC 400V 25/125/21C	40031733	
2	USA CSA	UL CUL	UL 60384-14 2010 CSA E60384-14 :09	Y1 TY AC400/500V 25/125/21B	E315719	
3	CHINA	CQC	IEC 60384-14:2005	Y1 TY AC500V 25/125/21B	CQC14001107432	
4	KOREA	KC	KC60384-14(2015-09) KC 60384-1(2015-09)	Y1 TY AC500V 25/125/21B	HU03034-17001A	

9.Requirements for concentration limits for certain hazardous substances

] ½^)Ãh Å%'Ð

RoHS2.0 2011/65/EU

halogen ¸-

REACH No190 7/2006

RoHS H.F. REACH

Substances ^)`K	concentration (unit: ppm) Ãh
Cadmium and cadmium compounds [ƒ[$æ^	<100
Lead and lead compounds ƒƒƒ$æ^	<1000
Mercury and mercury compounds hƒh$æ^	<1000
Hexavalent chromium compounds PƒP$æ^	<1000
Polubrominated biphenyls •cS† PBBS	<1000
Polubrominated diphenylethers •cS†6 PBDES	<1000
Cd+Pb+ Hg + Cr^{+6}(packing materials) [+ƒ+h+¢®P	<100
Cl Ï	<900
Br c	<900
Cl+Br Ï+c	<1500
SVHC (155item) REACH :'_^) 155 »	<1000

10.Manufacturing date codes %• Y Ý ò (TRX ‹ , ¶)

code of year -Ý ò				code of month e Ý ò		code of day Ý ò			
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

Note: the year code repeats once every 20 years for a one-week period.
_!-Ú Ý ò $ 20 - ¢ ; Y 7 ¢ ± d

11. Storage conditions [É ¨ Ñ

Ô.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.

½ 6 ½ C ½ B ½ 9 ú ½ 6 Á ^) ¥ G } › } ä ½ d

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

Ö. (v ¶ } • G w + ¹ 1 g ³ • k Y 3 Q e [É d

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

(v) ¨ · [É ë ‘ • y ¨ Ñ !

· Storage temperature:-25 to +40 §

[É 1 g ! -25 to +40 §

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

[É ¡ g ! â 1 ¶ 80% É M ½ £ À

· Maximum duration 12months.

[É Y « ! « Ö 12 Q e

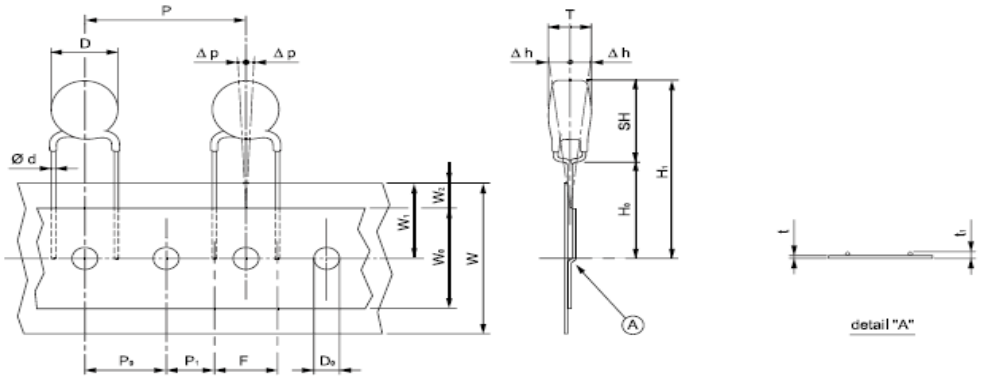
12.Packing g m

A:bulk ; m

DIMENSION d Ê	Lead length ä ¬) g	Bag $ ß
TD<8mm	• 10mm	1000PCS
	>10mm	500PCS
TD ž 8mm	500PCS	

B: TAPE © Û (1000PCS/BOX)

Capacitors on tape type pitch 7.5mm /10mm (v G *



Parameter õ ô	Symbol ø Ü	Taping Specifications © Û Ÿ L (unit: mm)		
		Pitch 7.5	Pitch 10	Tolerance
lead diameter ¬ E	Td	0.55	0.55	• 0.1
pitch between capacitors (v · o	p	12.7	25.4	• 1.0
feed-hole pitch Ä o	P_0	12.7	12.7	• 0.3
feed-hole centre to lead centre) x Ä / ï þ ä ¬ / ï o	P_1	8.95	7.62	• 0.7
lead spacing ä ¬ · o	F	7.5	10.0	• 1.0
component alignment y ¬	h	0	0	• 3.0
deviation along tape, left or right a ë Û * ° g	p	0	0	• 1.3
tape width © Û Ú g	w	18.0	18.0	• 0.5
hold-down tape width B Û Ú g	W_0	12.0	12.0	-
hole position Ä *"	W_1	9.0	9.0	• 0.5
hold-down tape position B Û * "	W_2	3.0	3.0	-
seated height to tape centre ¶ þ © Û / ï	H_0	20.0	20.0	• 1.0
maximum component height Û / ï þ D « Ö : g	H_1	37.0	37.0	-
feed-hole diameter) x Ä E	D_0	4.0	4.0	• 0.2
total tape thickness Û ™ g	t	0.50	0.50	• 0.2
maximum thickness of tape and wires ë Û ä ä ¬ « Ö g	t_1	1.0	1.0	-

13. Cautions and warnings C A ä > A

è. Attention is drawn to the fact that repetition of the voltage proof test by the user may damage the capacitor.

)û 7 •(B Ër ¶ Ÿ E*(v ƒ Ër (v â ¶ » ò æ L 6 | ° d

é. Do not place the capacitor a PC board whose hole space differs from the specified lead space.

(v} PCB P h m ¨ ‘ Ð PCB P Ä E 0(v öo - 6 æ , - ± ¶ Ÿ V ý ! (v 0 PCB P Ï â e , (v ä ö n z g ‡ ~ E*— E*(v d

ê. Avoid any compressive, tensile or flexural stress. ¥ G å Š B õ Ü ó æ o l d

ë. Please consult us first if you wish to embed the capacitor in plastic resins.

}(v h) û î N ø ¨ ë ¹ • † 8 A - ‘ • ì T d

ì. Do not move the capacitor after it has been soldered to the board.

Ï PCB P (v â ¶ O - N g Ü ‡ ~ O À Ü d

í. Do not pick up the PC board by the soldered capacitor.

â ¶ Ï PCB P (Ü P ” Ü ¶ Ÿ E*(Ï ä g ß E E d

14. Voltage proof test guide (:B Ë ´ ä

A. Correct Method

þ ò º ¥

**Operate explain: ´ **

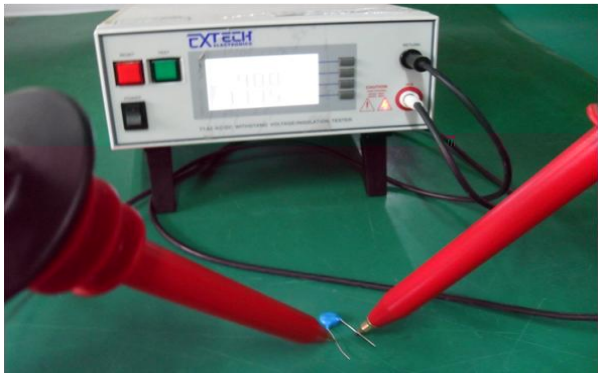
Ô. Set up test voltage , current and time in high voltage instrument. • G • B ® Ë (B (Ë ¨ · d

Õ. The two pins of capacitor are nipped in fixture of high voltage instrument. Ü (f ä ö £ : B Û { j £ n h ° ä ö 0 £ n ^ … d

Ö. Give the start button a slight press and the capacitor changed and tested, high voltage instrument stop output when the time arrived. • s N Æ (B Û { ( ) û : B Ë Ë ¨ · û N ¨ • B ® ‘ N - n (B Û { d

B. Error Method

Ð b º ¥



Operate explain: M í

Capacitor was test with high voltage test probe for electriferous touch the two pins of capacitor.

Û (Ë _ à ^ (f ä ö) û Ë d

ϒ øϒ

16.general knowledge for ceramic Capacitors ^¬(v(-

Ô.for capacitance and Dissipation factor(tan*) : häEÛ Ë

è.The capacitor is tested after be clamped with the test tool, can pt take the capacitor ps noumenon for test with hand. Capacitance and dissipation factor are not exact because of temperature in hand and test result is not right. Ë£n%A ^g£^(fö)û Ë`ô â¶ Í†,(‡~)û ËdÙÍ1ŽS(‡~ Võ¹(häEÛ •N Ë ´ {&—äobñd

é.The capacitor ps 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. •B Ë !6})û häEÛ Ë•¡ ¾(¸< Â" 24 Ì¨»h É ¯} Ë¨ Ü(fäö)ûk¾Â(¥G÷%(hE* Ë®¶d

Õ.for Voltage proof: •(B

Charge to capacitor after AC or DC Voltage, value, time and current are seted in test apparatus, clamping capacitor ps 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 ps configuration was be destroyed if great current will be happened in capacitor for moment. •8 Ú Ë •B® Ë(B ÿ) ô «Ö(ä Ë¨· | Ë ®f(WÛ{j£•£^(f äö ¯f£n •·oâŸÌ (öo /f£n •·oÌ (öo¨ }i(Ë/VÙá(o6¶Ì !“Æ ·}(•æ!“Ö(—E*(rd

17.Normative references ä ³y

Ô.IEC 60384-1！2008 Fixed capacitors for use in electronic equipment Part 1: Generic specification

(••• …G(v 1 æÓ ¹ Ÿ³

Õ.IEC 60384-14 3prd！2005 Fixed capacitors for use in electronic equipment Part 14！Sectional specification Fixed capacitors for electromagnetic interference suppression and connection to the supply mains

(••• …G(v 14 æÓ ÓŸ³ ½%(¨$ ä(WU …G(v

Ö.GB/T 5169.5-1997 (IDT IEC 60695-2-2:1991) Fire hazard testing for electronic products Part 2: Test methods Section 2: Needle-flame test

(•!6,e ¢¬r 2 æÓ ¬rº¥ 2 !ìoËr

×.GB/T 2693-2001 (IDT IEC 60384-1！1999) Fixed capacitors for use in electronic equipment-Part 1: Generic specification

(••• …G(v 1 æÓ ¹ Ÿ³

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