



深圳市弗瑞鑫电子有限公司

规格承认书

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prepare	
check	
approve	



TRX电容一级代理商

深圳市弗瑞鑫电子有限公司

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1/ I

/Rec g ed ec f ca

CODE	CUSTOMER P.N.	TRX P.N.	P d c de c	Pac age c de
1	/	TBY2220KSL	SMD-Y2SL220K/AC300V	4335
2	/	TBY2470KSL	SMD-Y2SL470K/AC300V	4335
3	/	TBY2680KB	SMD-Y2Y5P680K/AC300V	4335
4	/	TBY2101KB	SMD-Y2Y5P101K/AC300V	4335
5	/	TBY2221KB	SMD-Y2Y5P221K/AC300V	4335
6	/	TBY2331KB	SMD-Y2Y5P331K/AC300V	4335
7	/	TBY2471ME	SMD-Y2Y5U471M/AC300V	4335
8	/	TBY2681ME	SMD-Y2Y5U681M/AC300V	4335
9	/	TBY2102ME	SMD-Y2Y5U102M/AC300V	4335
10	/	TBY2152MF	SMD-Y2Y5V152M/AC300V	4335
11	/	TBY2222MF	SMD-Y2Y5V222M/AC300V	4335
		SL CLASS I	Y5P/Y5U/Y5V	CLASS II

2/ II

TRX SMD- 2.CAP

C R T.C D U : F

Y2

S ec f ca a d de de c fY2 AC ce a c f ed ca ac :

T.C	22	47	68	100	220	330	470	680	1000	1500	2200
SL											
2B(Y5P)											
2E(Y5U)											
2F(Y5V)											
U _R	300V.ac										
O e a g T e a e	-40 125										
C a c ca eg	40/ 125/ 21										


1000V

100H

Ab Y AC ce a c f ed ca ac ac edge e ec f ca de c :


Y a.c. ce a c ca ac a e ed e ec ca a d e ec c e e a d c ec ed a a.c.

a h a age e ceed g 1000 a.c, a d h a a f e e c e ceed g 100H .

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/CONTENT

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5.	P d c c e -----	7-8
6.	S de g c d -----	8-9
7.	Pe f a ce a d e e h d -----	9-14
8.	Ca ac e e a e cha ac e c -----	14
9.	C e f c a d ha f b a ce c e e e -----	15
10.	S age c d -----	15
11.	P d c Pac g -----	16-17
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1. /P N

T B 2 102 M E
 ① ② ③ ④ ⑤ ⑥

N . C de E a a

① T TL

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3. /D

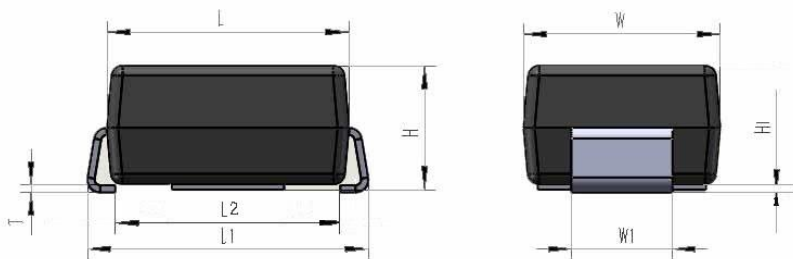
				c de f h		c de f da			
ea	c de	ea	c de	h	c de	da	c de	da	c de
		2020	M	1	01	1	01	16	16
		2021	N	2	02	2	02	17	17
2010	A	2022	P	3	03	3	03	18	18
2011	B	2023	R	4	04	4	04	19	19
2012	C	2024	S	5	05	5	05	20	20
2013	D	2025	T	6	06	6	06	21	21
2014	E	2026	U	7	07	7	07	22	22
2015	F	2027	V	8	08	8	08	23	23
2016	H	2028	W	9	09	9	09	24	24
2017	J	2029	X	10	10	10	10	1	

4. /C

Ce fca	S a da d be	Ce fca e be	Ce fed age
UL/CUL	UL/CSA 60384-14	E315719	AC300V(. . .)
CQC	GB/T6346.14-2015	CQC20001280609	AC300V(. . .)
ENEC	EN 60384-14:2013/A1:2016	ENEC-03177	AC300V(. . .)
KC	K60384-14	HU03034-21003A	AC250V(. . .)

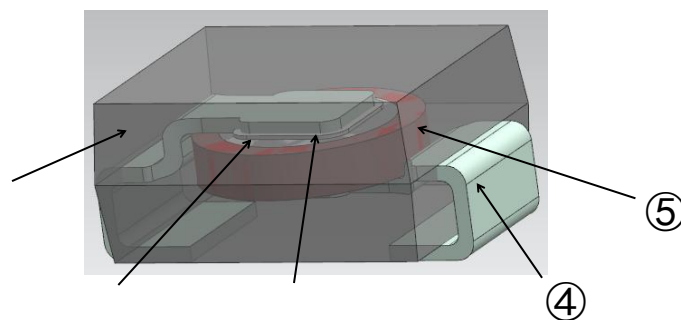
5. /P

5.1 /P d c D e



P d c D e ()			
L	4.3 0.1	W	3.5 0.3
L1	5.0 0.1	L2	4.0 0.1
H	2.2 0.1	W1	1.8 0.05
H1	0.1 0.05	T	0.13 0.02

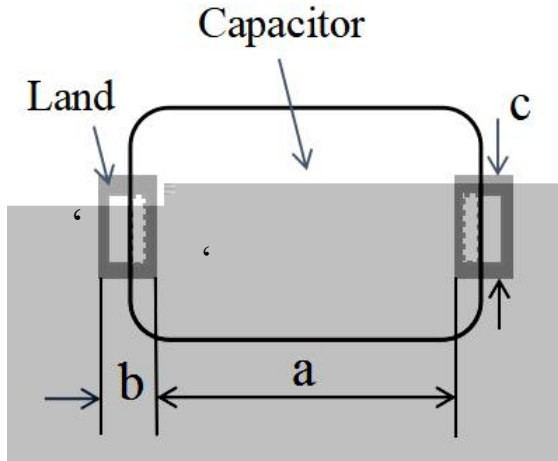
5.2 /P d c c e



N .	Pa a e	Ma e a
①	C a g	E d g c (UL94V-0) d (UL94V-0)
②	E ec de	S e /C e
③	S de	S -Pb-Ag S -Pb-Ag S de
④	Lead P	T , ed c e
⑤	D e ec c	Ce a c

5.3 /S de Pad d e

The ec e ded de add e f ef de g a e a f . "a" e e he c ee age d a ce e ed b he afe a da da ed e e .



Pac age D e	a()	b()	c()
4.3 3.5	4.0	2.2 0.1	3.2 0.1

6. /S

6.1 /Ref S de g

Whe de g ca ac , h d be e f ed f g c d .

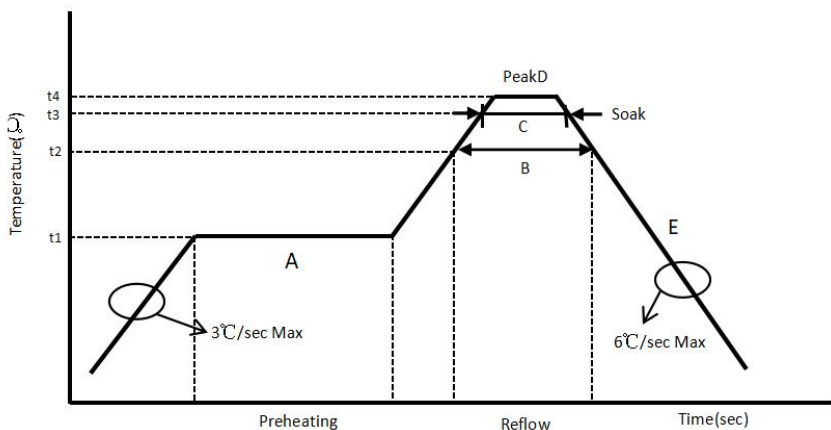
280 .
S de g e e a e 280°C a .

30 .
S de g e 30 a .


200 .
P hea g e e a e 200 a .

180 ;
P hea g e 180 a .

Te e a e c e f Ref S de g



1	175 25	P hea g A	120 60
2	215 10	Ref B	110 20%
3	230 10	S a C	30 20%
4	275 5	Pea D	20 10

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6.2 /F S de g

When the capacitor is used in a circuit, the following conditions must be met.

Storage temperature: 280°C.

Storage time: 30 days.

Peak storage temperature: 200°C.

Peak storage temperature: 180°C.

6.3 /S de g I PCB/PWB

When the capacitor is used on a PCB/PWB, the following conditions must be met:

When the capacitor is used in a circuit, the following conditions must be met.


Temperature: 400°C.

Storage time: 50 days.

Storage time: 5 days.

7. /P

NO	Item	Specification	Remarks
1	Appearance	No bending, no lead breakage, lead surface clean.	Appearance inspection
2	Dimension	5.1 See 5.1 for details	Dimensional inspection

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NO	I e	S e c f c a	e e h d
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3 V

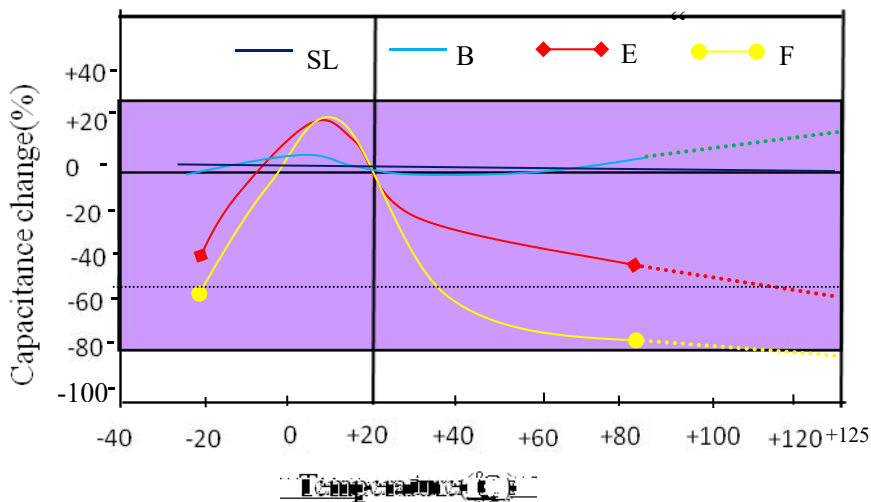


NO	I e	S e c f c a	e e h d
8	Re a ce de g hea	a e a a	150 180 C 90 30 P ehea he ca ac a 150 180 C f 90 30 .
		age f	NO.3 Pa he e NO.3
		Ca ac a ce	SL: 10% Y5P: 10% Y5U: 20% Y5V: 20%
		D.F.	SL: 1.0% Y5P: 2.5% Y5U: 2.5% Y5V: 2.5%
		I.R.	NO.7 Pa he e NO.7
9	S de ab	(90%) 3	(JIS K 8101) (JIS K 5902) (25%) I e e he ca ac he f e ha (JIS K 8101) a d (JIS K 5902) (25%) e gh (. (Refe e te) 2 0.5 I e e de f 2 0.5 . Te . f de : 245 10 C
		G d c a g (a e ab e 90%), h 3 f c e ge ce.	
10	Te e a e c c e	a e a a	N b e da age e ca eg e e a e : +125 3
		age f	NO.3 Pa he e NO.3 e ca eg e e a e : -40 3
		Ca ac a ce cha ge	SL: 10% Y5P: 10% Y5U: 20% Y5V: 20% , / be f c c e : 5
		D.F.	SL: 1.0% Y5P: 2.5% Y5U: 2.5% Y5V: 2.5% d a fe e a he e e a e 30 25 3 24 2
		I.R.	NO.7 Pa he e NO.7 Ca ac ha be aced a 25 3 f 24 2h bef e a ea e e .

SMD 2
SMD

NO	I e	S e c f c a	e e h d
16	C e e R e a c e	N b e d a g e. NO.3 NO.7 P e f a c e a c c d g N .3 N .7	:30 5% 70 5% S e b e e d : 30 5% a c h a d 70 5% f a c d /S e e e a e : 23 5 5 0.5 The ca ac ha be e ged e f 5 0.5 e c d . /R e e e : 8h
17	S e e a c e f h e a g	The a g h a b e e g b e	:30 5% 70 5% S e b e e d : 30 5% a c h a d 70 5% f a c d “ /S e e e a e : 23 5 5 0.5 10 The ca ac ha be e ged e f 5 0.5 e c d a d a ha be e d h e d g e f 10 e e

8. /C



9. /C

R HS2.0 2011/65/EU

ha ge

REACH N 190 7/2006



S b a c e	c c e a (:)
/Cd a d cad c d	<100
/Lead a d ead c d	<1000
/Me c a d e c c d	<1000
/He a a e ch c d	<1000
PBBS/P b a ed b he	<1000
PBDES/P b a ed d he e he	<1000
+ + + /Cd+Pb+Hg + C +6(ac g a e a)	<100
/C ‘	<900
/B	<900
+ /C +B ‘	<1500
REACH ‘ SVHC ‘ S b a c e f Vg H gh C ce (SVHC) f REACH	TRX REACH The a e each e f TRX ha e a

10. /S

(1).

‘ The a g E ded ca ac d e f a e fec ea ; he ef e, d e e ca ac a c e a he e, e ec a he e ch . de ga , f de ga . ac d, a a , a he e a e e e . A d a d e e e . S , de a d he ab f e e, ca ac a e ac ed e- fe e e.

(2). 12

S e he ca ac he f g c d a a e , a d e h 12 h a f e de e ed.

/Te e a e: 10 30

/H d : 60% a .


(3). ‘ 168 “ ‘ ‘ ‘ ‘

S de he e c ed ca ac ‘ h 168 h a f e e g he e- f ac age. A f e e g, e he ca ac e- f ac age h a de cca a d HIC ca d a d ee he ab e c d .

(4). 6 “ “

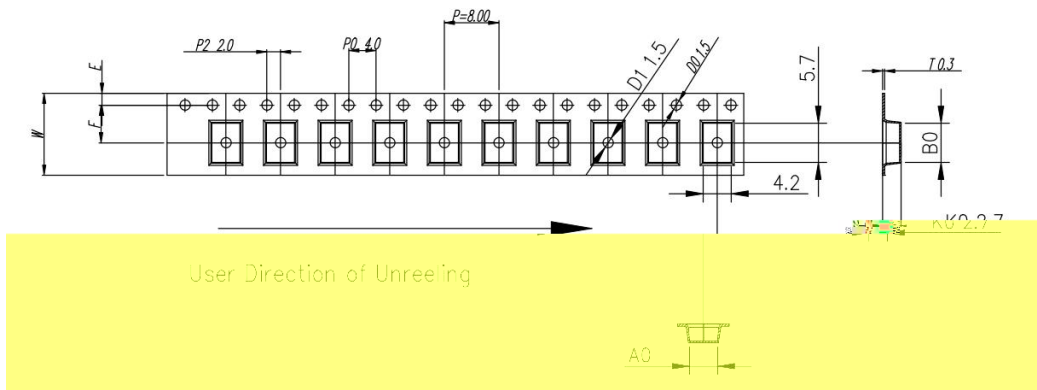
60 168

I ca e he age e d ha bee e ceeded 6 h he d ca c f a e c ed HIC ca d ha cha ged he he ac age ha bee e ed, e f ba g (60 168h) bef e de g.

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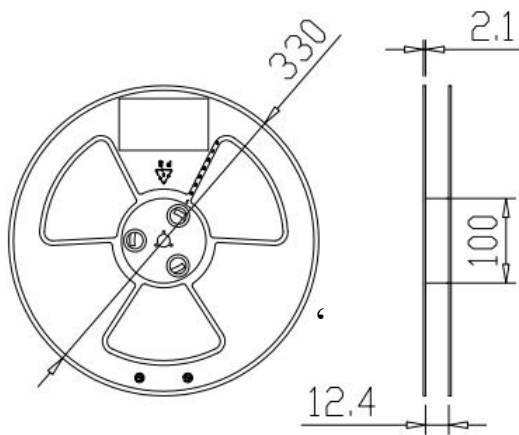
11. /P P

11.1 /D e f a e



ITEM	W	A0	B0	K1	K0	P	F	E	D0	D1	P0	P2	T
DIM	12.0 ±0.30	4.2 ±0.10	5.70 ±0.10	--	2.70 ±0.10	8.00 ±0.10	5.50 ±0.10	1.75 ±0.10	1.5 ±0.00	1.5 ±0.10	4.0 ±0.10	2.0 ±0.10	0.30 ±0.05
ALTERNATE													

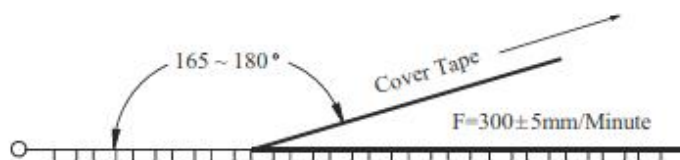
11.2 /D e f Ree



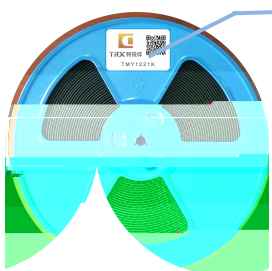

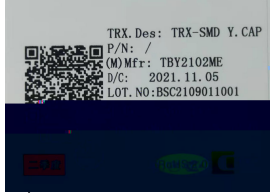

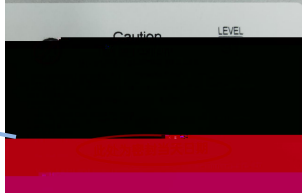
REEL	REEL SIZE
3000 c	13 ch

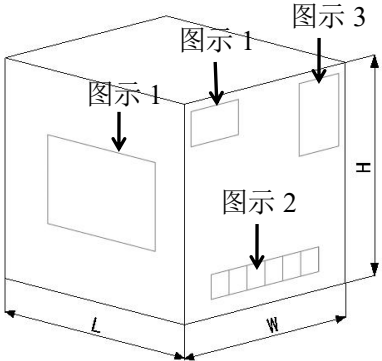


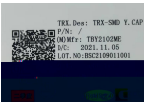
11.3 /Pee g f f ce





Item	Data	Remark
Cover tape adhesion	10 ~ 100g	Carrier tape and cover tape open angle 165 ~ 180° F=300±5mm/minute



11.4 /P d c Pac ag g Sche e


 <p>标签/Labe</p>	 <p>TRX 料号 TBY2102ME</p>	/I e	
		TRX.De	
<p>/Ree S e: 13 ch ' 3.0KPCS/Ree</p>		P/N	
		Mf	
  		D/C	
		L .N	
<p>/P d c f a abe /Labe Sea ed bag /H d e e abe</p>		Q TY	
		SPEC	

				/O -	
				D e ()	Q a
L	W	H	45KPCS	10.0KG	
355	358	294			

 <p>/O B</p>	 <p>15 / /15Ree /B</p>	 <p>(/ /) Pa e S e(L/W/H) 1100*1100*90</p>	 <p>(/ /) S ac g e(L/W/H) 1100*1100*1600</p>
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1. 5 2. PALLET & WRAPPING 3.50c 4. /

R :1.The 5 he ac g ac ed a e ca ' e ha 5 a e ;2.Pa e ac ag g& g-d a ce a h d be a g; 3.50 c ab e he he gh f he a ce d d ;4.N a e e a e/h d ee g.

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12. /A

- ①. A e d a he fac ha e e f he age f e b he e a da age he
ca ac .
- ②. PCB PCB
PCB
Ca ac c cc a a e a . c a N

‘