



# APPROVAL SHEET

## 承認書

Cust. Part No.:

Spec.:

變壓器

Ref. No.:

EP13-015-S

Customer:

太普集團(及其相關之關係企業)

Date:

2022/8/23

APPROVED BY



豐達電子有限公司

Abliss Technology Co., Ltd.

No.31, Ln.152, Kanghe Rd., Xinfeng Township,

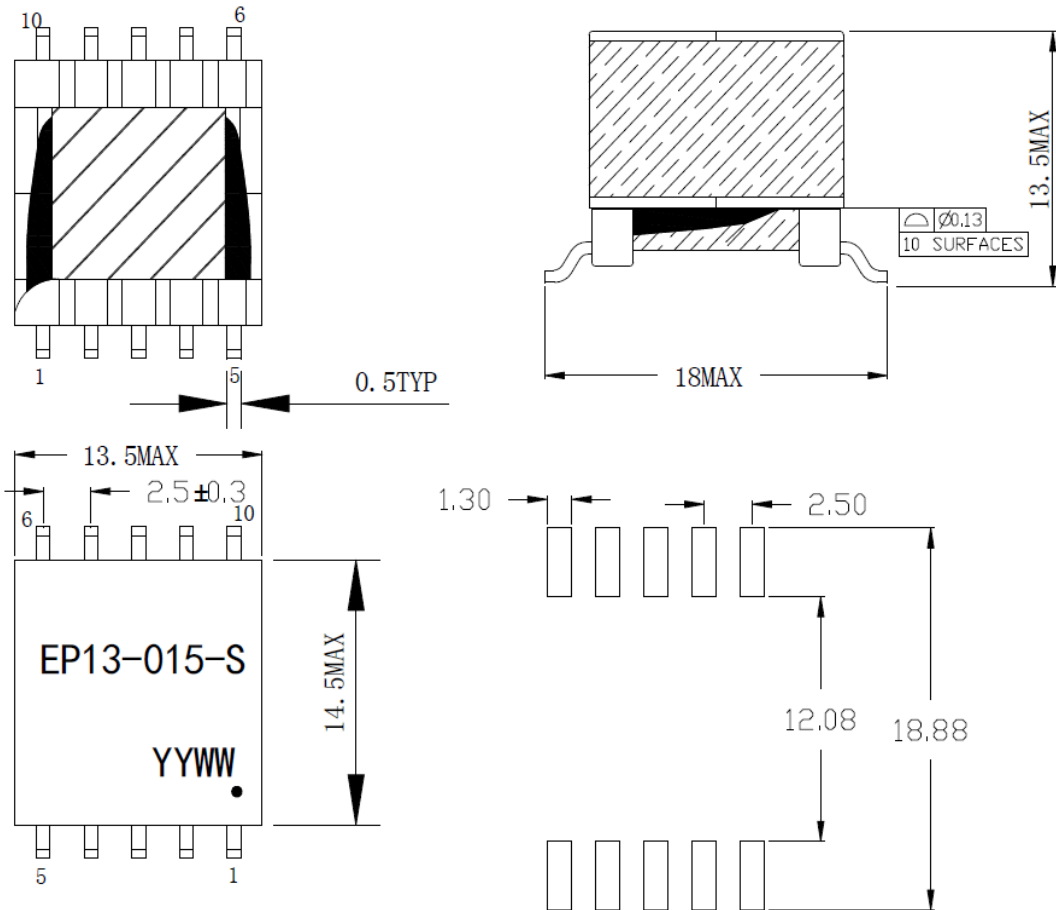
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1. PHYSICAL DIMENSION(UNIT: mm): (外觀圖尺寸)



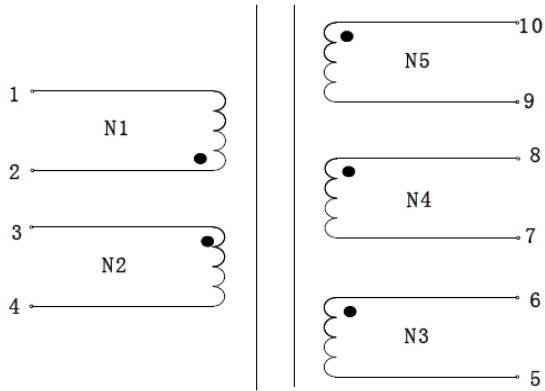
- 1 產品頂部鐵芯上打白點, 標示:Pin 1
- 2 產品頂部貼標籤, 字朝pin1 -5 側.
- 3 產品需要平, 100%過平貼治具
- 4 產品繞線需平整
- 5 在產品底部PIN1-PIN5側點兩條E-500環氧膠固定過磁芯結合3/1處如圖所示。
- 6 在產品頂部噴碼印字, YYWW為生產週期YY代表年份WW代表週期。



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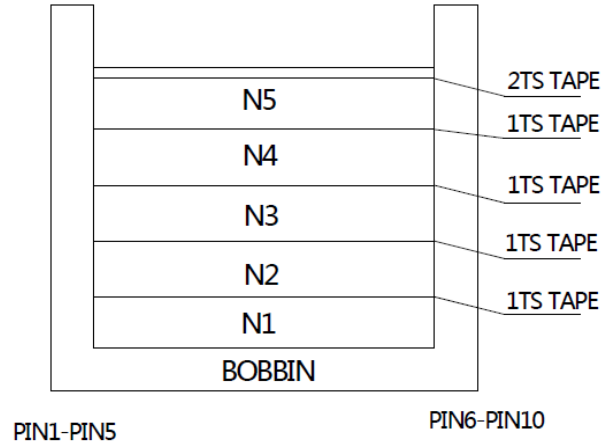
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### 2.SCHEMATIC: (線路圖)



• Start Winding

### 3.WINDING: (剖面圖)



PIN1-PIN5

PIN6-PIN10

### 4.WINDING TABLE: (繞線結構)

繞組	START	FINISH	WIRE ( mm )	TURN ( TS )	TAPE ( TS )	
N1	2	1	$\psi 0.30*1C$ 2UEW	20	1Ts	
N2	3	4	$\psi 0.30*1C$ 2UEW	6	1Ts	
N3	6	5	$\psi 0.20*2C$ 2UEW	9	1Ts	
N4	8	7	$\psi 0.20*2C$ 2UEW	13	1Ts	
N5	10	9	$\psi 0.20*2C$ 2UEW	13	2Ts	



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### 5.CHARACTERISTICS:

#### Standard atmospheric conditions:

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows:

Ambient temperature:15°C to 35°C Relative humidity:25% to 85% Air pressure:860hPa to 1060hPa

If there is doubt about the result, measurement shall be made within the following limits:

Ambient temperature:20±1°C Relative humidity:63% to 67% Air pressure:860hPa to 1060hPa

Operating temperature range -25°C to +130°C.

The classes of insulating ,materials and temperatures shall be class B.

NO.	ITEMS	CONDITION	SPECIFICATION	TEST INSTRUMENT
1	Inductance:@100KHz, 0.1V	L( 2 - 1 )	92 uH ±10%	E4980 PRECISION LCR METER OR EQUIV Test Sytem
2	Direct current resistance:(20±5°C)	DCR( 2 - 1 )	130 mΩ MAX	KEITHLEY 2010 MULTIMETER OR EQUIV
		DCR( 3 - 4 )	540 mΩ MAX	
		DCR( 6 - 5 )	165 mΩ MAX	
		DCR( 8 - 7 )	310 mΩ MAX	
		DCR( 10 - 9 )	240 mΩ MAX	
3	HI-POT TEST:@50/60HZ ,1mA	PRI TO SEC	600 Vac, 2 Sec.	DU-333 HI-POT TESTER OR EQUIV
		PRI TO CORE	600 Vac, 2 Sec.	
		SEC TO CORE	600 Vac, 2 Sec.	
4	INSULATION RESISTANCE:@500V dc (60s after)	COIL TO COIL	100MΩ MIN	DU-333 HI-POT TESTER OR EQUIV
		COIL TO CORE	100MΩ MIN	
5	Q: @ 10KHz/0.25V	Pin ( 2 - 1 )	MIN.	
6	Current	Pin ( 2 - 1 )	0.3A	



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### 6. ENDURANCE CHARACTERISTICS

6-1. TERMINAL STRENGTH: PULL TEST WITHSTAND 10N 10~15s NO PART LOOSE OR MOVING. (IEC68-2-21)

6-2. SOLDER ABILITY :DIPPED IN 255+/-5°C MOLTEN SOLDER FOR 5s.  
95%MIN SHALL BE SMOOTH AND BRIGHT. (IEC68-2-20)

6-3. RESISTANCE TO SOLDERING HEAT: DIPPED IN 380°C+/-5°C MOLTEN SOLDER  
FOR 5+/-0.5s SHALL NOT BE ANY ABNORMALITY. (IEC68-2-58)

6-4. VIBRATION: 1.5mm AMPLITUDE TOTAL EXCURSION 10-55-10Hz TRAVERSED  
IN 1 MINUTE. X. Y. Z. AXIS FOR 2 HOURS. SHALL NOT BE ANY  
ABNORMALITY. (IEC68-2-6)

6-5. DRY HEAT: 125°C +/-2°C 96+/-5 HOURS. (IEC68-2-2)

6-6. COLD : -25 +/-2°C 96+/-5 HOURS. (IEC68-2-1)

6-7. DAMP HEAT: 40+/-2 °C, 90~95%RH 96+/-5 HOURS. (IEC68-2-30)

6-8. TEMPERATURE CYCLING: EXPOSED 10 CYCLE. EACH CONSISTING OF 30 MINUTES  
AT -25 +/-2°C, 30 MINUTES AT 105 +/-2°C. (IEC68-2-14)

REMARK: ITEM 5,6,7,8 SHALL BE SUBJECTED TO STANDARD ATMOSPHERIC  
CONDITIONS FOR 1-2 HOURS AFTER WHICH MEASUREMENT SHALL BE MADE



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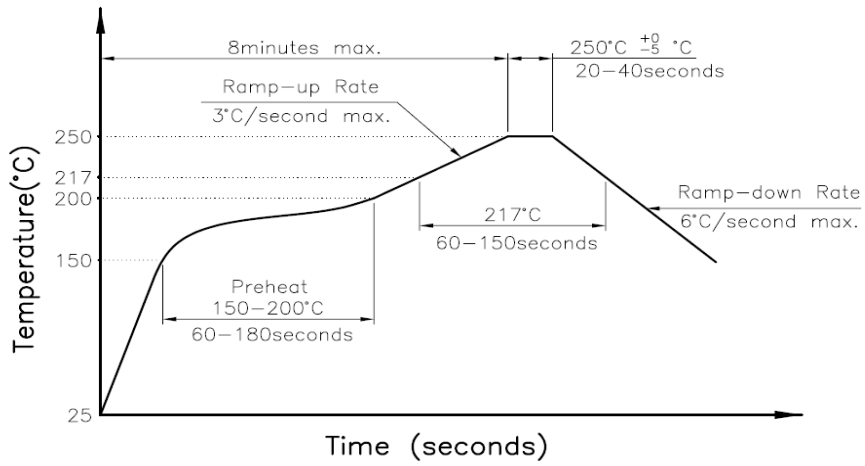
**7.MATERIAL LIST:**

NO	PART	MATERIALS	MANUFACTURER	DESCRIPTION	UL FILE	ROHS Report
1	CORE	Ferrite	ACME	EP13 PC40	N/A	
			or Equivalent			
2	BOBBIN		SUMITOMO BAKELITE CO. , LTD	PM-9820	E41429	
3	MAGNET WIRE	UEW	HENGYA ELECTRICLIMITED	130°C	E197768	
5	TAPE	POLYESTER ADHESIVE TAPE T=25um	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO. , LTD	130°C NO.CT-280 YELLOW	E165111	
6	VARNISH	POLYESTER	JOHN C. DOLPH COMPANY	130°CNO.BC-346-A	E317427	

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## 8. IR Reflow:



Storage temp.:  $-40^\circ\text{C} \sim +85^\circ\text{C}$   
Storage condition: Humidity: 45 ~ 85% RH  
Operating temp. :  $-40^\circ\text{C} \sim +85^\circ\text{C}$