



东莞天富电子科技有限公司

产品承认书

CUSTOMER	CUSTOMER NO.	TF PART NO.
		TF5014
DESCRIPTION:	10/100/1000 BASE-T TRANSFORMER MODULES	
ATTACHMENT: ■ SPECIFICATION ■ SAMPLE Q'TY OF SAMPLES <u>5</u> PCS		
CUSTOMER APPROVAL (客户承认章)		KDY APPROVAL (公司承认章)
SALES BY:		DRAWN BY: Season
QA DEPT. :		CHECKED BY: DellyDeng
ENG. DEPT.:		APPROVAL BY: JamesYan



1.
FE
AT

URES:

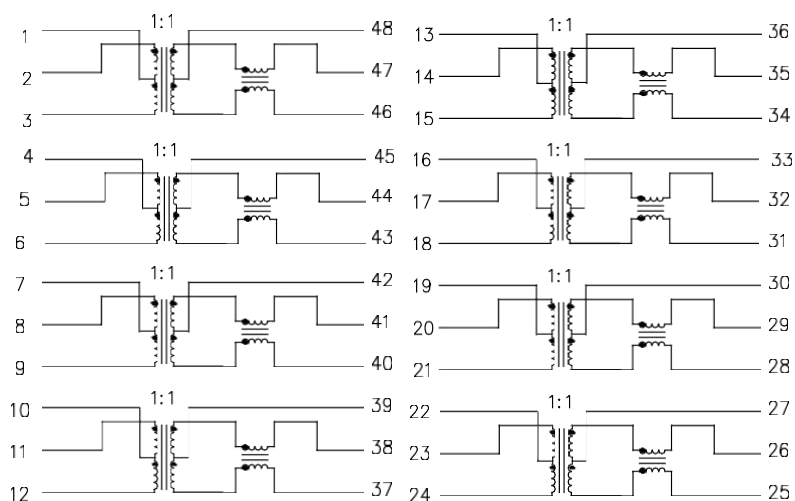
- 1.1 Compatible with various 10/100/1000 Base-TX for POE transceiver requiring 1:1 transmit and receive turns ratio
- 1.2 Compliant with IEEE 802.3 standard including baseline wander compensation specification of 350uH OCL when Biased at 8mA from 25°C
- 1.3 Low profile Surface Mount Packaging designed for Hi-Temp Reflow Process (260°C peak)
- 1.4 Single channel interface for 1000Mbps Ethernet applications with CMC's tuned to Enhance EMC system performance
- 1.5 Operating Temperature range: 0°C to 70°C

2.ELECTRICAL SPECIFICATIONS @25°C

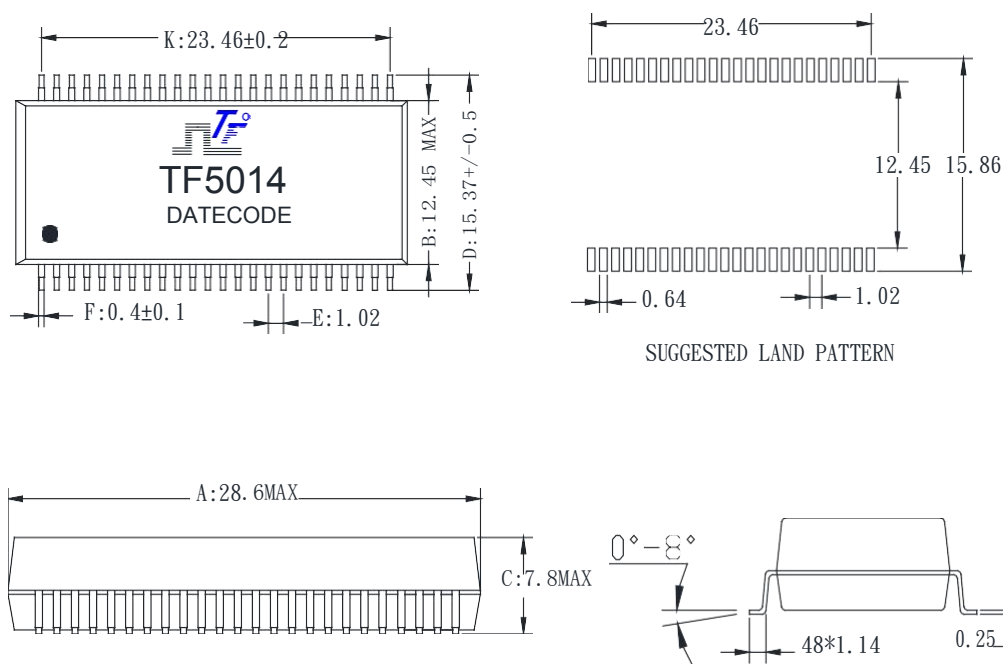
- 2.1 OCL : 350 uH Min. @ 100 KHz, 100mV with 8mA DC Bias
- 2.2 Leakage Inductance: 0.5 uH Max. @ 100KHz, 0.1V
- 2.3 Cw/w: 30pF Max. @ 100KHz, 0.1V
- 2.4 DCR: 1.0Ω Max.
- 2.5 Turns Ratio(±5%): 1CT:1CT(TX), 1CT:1CT(RX)
- 2.6 Insertion Loss: -1.1 dB Max. @ 1-100MHz
- 2.7 Return Loss: -16 dB Min. @ 1-30MHz
 - 12 dB Min. @ 60 MHz
 - 10 dB Min. @ 80 MHz
- 2.8 Cross Talk: -42 dB Min. @ 1-30 MHz
 - 40 dB Min. @ 60 MHz
 - 38 dB Min. @ 80-100MHz
- 2.9 Common Mode Rejection : -42 dB Min. @ 1-30 MHz
 - 40 dB Min. @ 60 MHz
 - 35 dB Min. @ 80-100 MHz
- 2.10 Isolation HI-POT: 1500Vrms 1mA 1Second

DRAWN BY:	CHECKED BY:	APPROVED BY:	CUSTOMER:
Season	DellyDeng	JamesYan	PART NO. : TF5014
DONGGUAN TIANFU ELECTRONICS CO.,LTD			REV.: A
			PAGE: 2 OF 5

3. SCHEMATICS:



Dimensions:



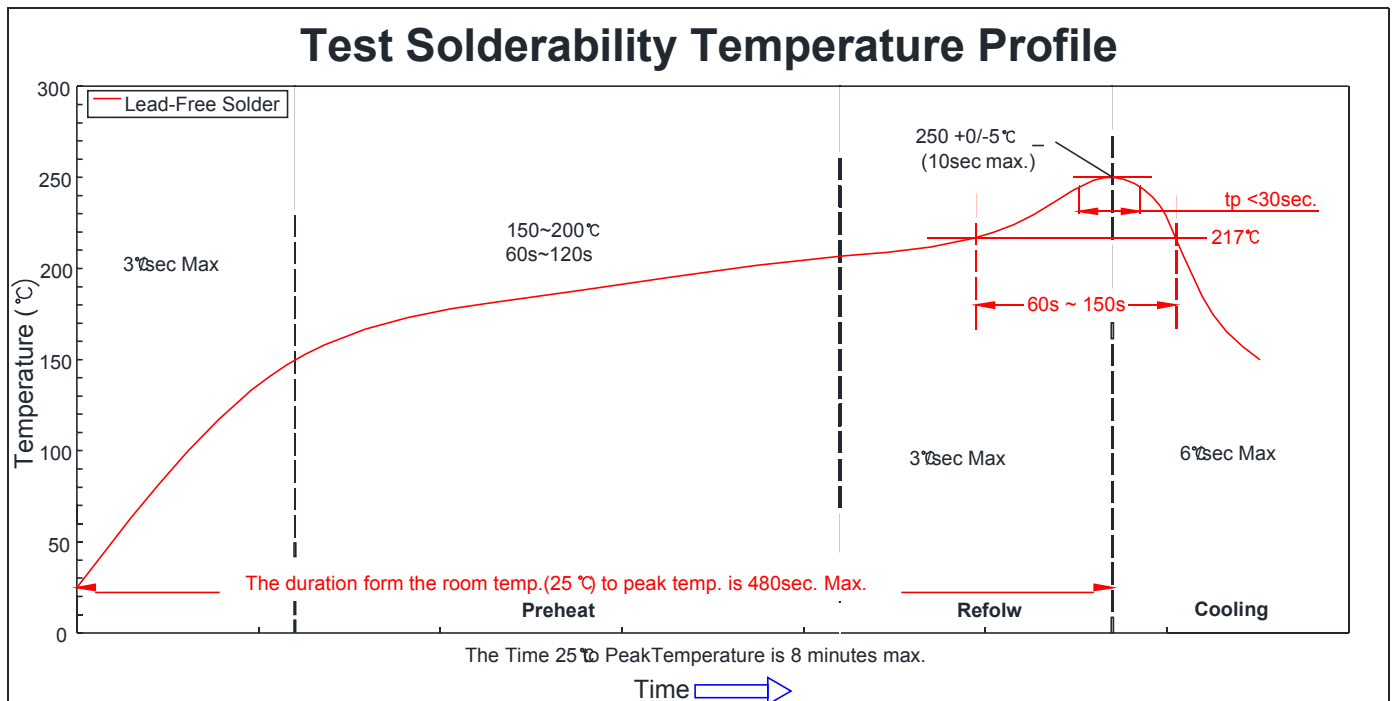
Dimensions:mm

Unless otherwise specified, all tolerances are ± 0.25

DRAWN BY:	CHECKED BY:	APPROVED BY:	CUSTOMER:
Season	DellyDeng	JamesYan	PART NO. : TF5014
DONGGUAN TIANFU ELECTRONICS CO.,LTD			REV.: A
			PAGE: 3 OF 5
www.yxd163.com			

Advice Soldering Profile

Profile Feature	
Average Ramp-Up Rate (Ts max. to Tp)	3° C/second max.
Preheat -Temperature Min (Ts min.) -Temperature Max (Ts max.) -Time (ts min. to ts max.)	150 °C 200 °C 60-120 seconds
Time maintained above: -Temperature (TL) -Time (tL)	217 °C 60-150 seconds
Peak/Classification Temperature (Tp)	250°C
Time within 5 °C of actual Peak Temperature (tp)	10seconds max.
Ramp-Down Rate	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.



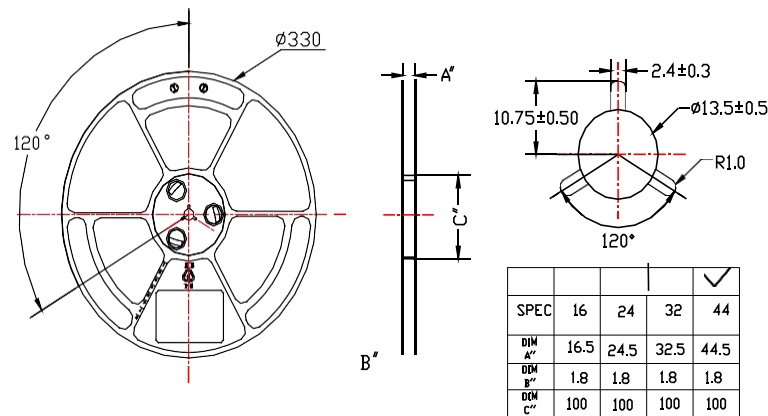
Packing Specification

<1> Part Number	TF5014		<2> Customer			
<3> Product Size			<4> Version	1.0		
<5> Package Item:	1. Each Reel Qty	300	X	10 (Total Reel in Carton)	=	3000 PCS
	2. Total unit transformer in carton	3000	X	1 (Carton Qty)	=	3000 PCS
<6> Product weight						
unit	2.7	g	N.W.	1.5	kg	G.W. 9.6 Kg

<7> Remark:

- PIN1 faces the apertures if apertures are only on one side. PIN1 faces the round aperture if the apertures are on both sides.
- Leave 160mm-taping before starting taping; leave 390mm-taping after taping.
- Wrap the protected-tape around the reel after taping.
- Pack the reel with bag and seal it before putting into the carton.
- Hard cardboard will be placed in each corner of the carton for protection.
- Cartons will be sealed with tape.

<9> Reel Dimension



<10> Packing Illustration

