



东莞天富电子科技有限公司

## 产品承认书

CUSTOMER	CUSTOMER NO.	TF PART NO.
		TF1102P
DESCRIPTION:	10/100 BASE-T TRANSFORMER MODULES	

**ATTACHMENT:**

■ SPECIFICATION

■ SAMPLE          Q'TY OF SAMPLES      10          PCS

CUSTOMER APPROVAL (客户承认章)		TF APPROVAL (公司承认章)	
SALES BY:		DRAWN BY:	Season
QA DEPT. :		CHECKED BY:	<b>DellyDeng</b>
ENG. DEPT.:		APPROVAL BY:	<b>JamesYan</b>



**DONGGUAN TIANFU ELECTRONICS CO.,LTD**

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PLEASE REPLY THIS SHEET TO US AFTER SIGNATURE(请签字后回传本页)

## 1. FEATURES:

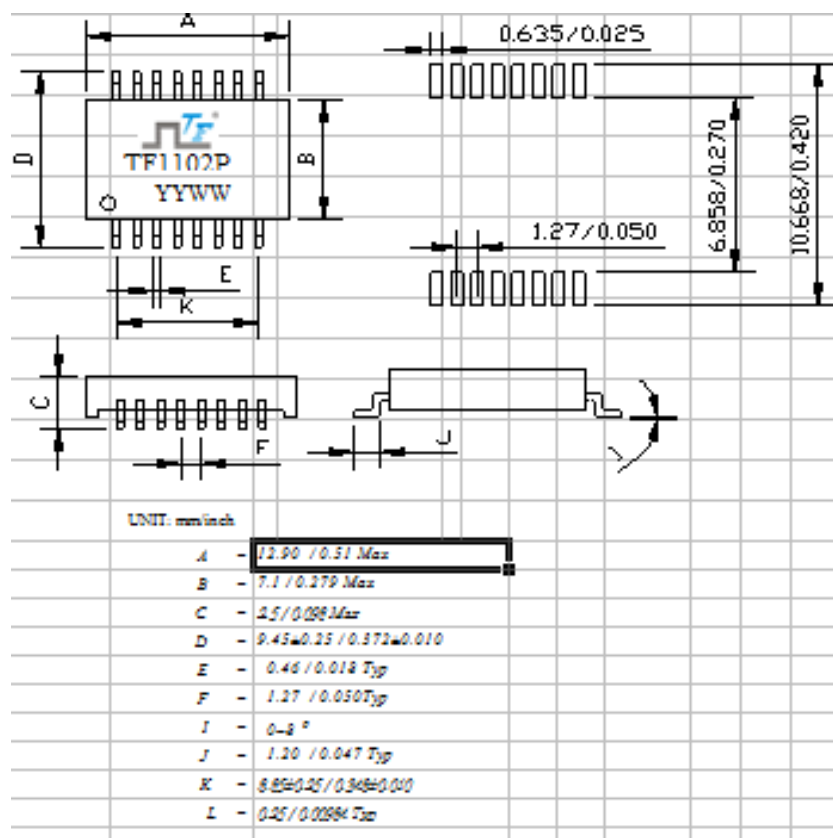
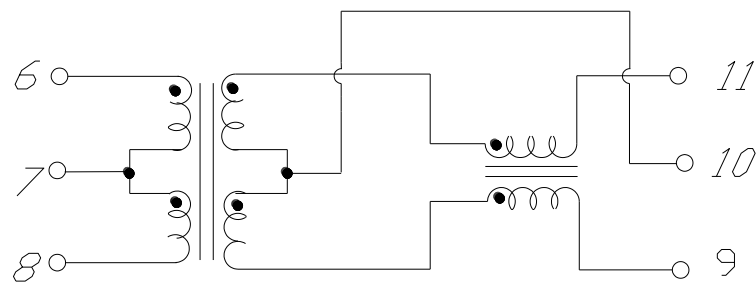
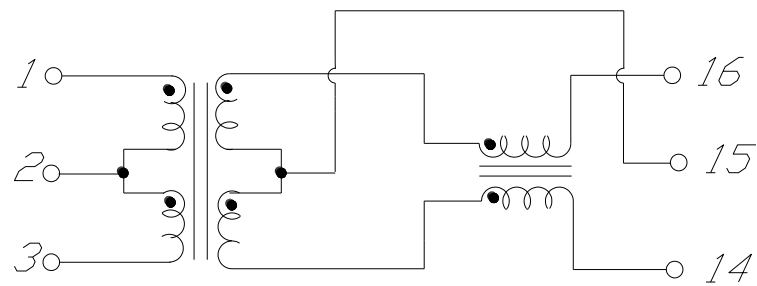
- 1.1 Compatible with various 10/100 Base-TX transceiver requiring 1:1 transmit and receive turns ratio
- 1.2 Compliant with IEEE 802.3 standard including baseline wander compensation specification of 350uH OCL from 0°C to 70°C (0mA)
- 1.3 Low profile Surface Mount Packaging designed for Hi-Temp Reflow Process (255°C peak)
- 1.4 Single channel interface for 10/100Mbps 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
- 2.2 Leakage Inductance: 0.5 uH Max. @ 100KHz, 0.1V
- 2.3 Cw/w: 30pF Max. @ 100KHz, 0.1V
- 2.4 DCR: 1.30Ω 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


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3. SCHEMATICS:



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# SAMPLE TEST DATA (样品测试报告)

SPEC \ NO	1	2	3	4	5	6	7	8	9	10
TURN'S RATIO:										
PRI:SEC=1CT:1CT ±3%	OK	OK	OK	OK	OK					
HI-POT:										
PRI:SEC at 1500Vrms1mA	OK	OK	OK	OK	OK					
OCL(AT 100KHz, 100mV										
350uHMin										
1-3	446	393	491	509	505					
6-8	454	439	495	406	481					
LK:(AT 100KHz, 0.1V)										
0.5 uH Max.										
1-3(16-14short)	0.19	0.15	0.20	0.24	0.22					
6-8(11-9short)	0.20	0.22	0.24	0.23	0.20					
Cw/w:(AT 100KHz, 0.1V)										
30 pF Max.										
2-15	15	23	20	19	21					
7-10	22	16	24	22	20					
MAIN TEST EQUIPMENT										
<div><div><input checked="" type="checkbox"/> TOPWARD TPT-500 WITHSTANDING VOLTAGE TESTER</div><div><input type="checkbox"/> HEWLETT PACKARD 4277A LCZ METER</div><div><input checked="" type="checkbox"/> CHEN HWA 3250 AUTOMATIC TRANSFORMER TEST SYSTEM</div><div><input checked="" type="checkbox"/> CHEN HWA 502A LOW-OHM METER</div><div><input type="checkbox"/> RF NETWORK ANALYZERS HP8712ET</div></div>										
REPORT BY:	CHECKED BY:		APPROVED BY:		CUSTOMER:					
Season	DellyDeng		JamesYan		PART NO. : TF1102P					
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