



东莞天富电子科技有限公司

产品承认书

CUSTOMER	CUSTOMER NO.	TF PART NO.
		TF5408
DESCRIPTION:	10/100/1000/10G BASE-T TRNSFORMER MODULES FOR POE + (1100mA)	

ATTACHMENT:

■ SPECIFICATION

■ SAMPLE Q'TY OF SAMPLES 5 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. FEATURES:

- 1.1 Compatible with various 10/100/1000/10G 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 200uH OCL at 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

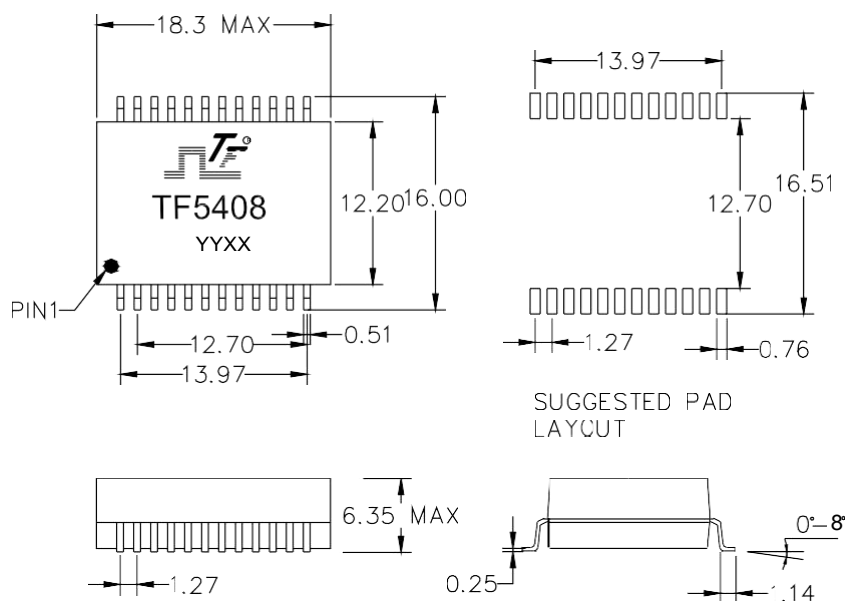
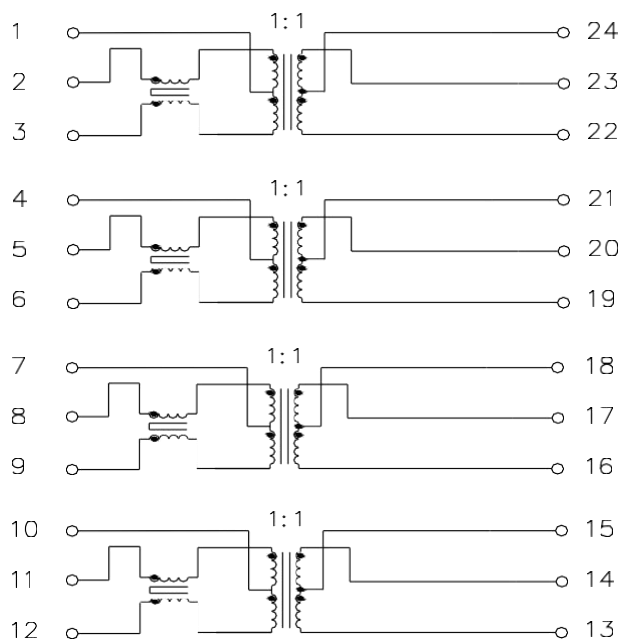
2. ELECTRICAL SPECIFICATIONS @25°C

- 2.1 OCL : 200 uH Min. @ 100 KHz, 100mV with 0mA 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: -1.0 dB Max. @ 1-10MHz; : -1.0 dB Max. @ 100KHz-650MHz
- 2.7 Return Loss: -18 dB Min. @ 1-40MHz
 - 10 dB Min. @ 40-400 MHz
 - 8 dB Min. @ 400-500 MHz
 - 5 dB Min. @ 500-600 MHz
- 2.8 Cross Talk: **-40 dB Min. @ 1-100 MHz**
 - 30 dB Min. @ 100-500 MHz
- 2.9 Common Mode Rejection : -30 dB Min. @ 1-250 MHz
 - 22 dB Min. @ 250-500 MHz
- 2.10 Isolation HI-POT: 1500Vrms 1mA 1Second

DRAWN BY:	CHECKED BY:	APPROVED BY:	CUSTOMER:
Season	DellyDeng	JamesYan	PART NO. : TF5408
DONGGUAN TIANFU ELECTRONICS CO.,LTD			REV.: A
			PAGE: 2 OF 7

TF-QTC-001

3. SCHEMATICS:



DRAWN BY:	CHECKED BY:	APPROVED BY:	CUSTOMER:
Season	DellyDeng	JamesYan	PART NO. : TF5408
DONGGUAN TIANFU ELECTRONICS CO.,LTD			REV.: A
			PAGE: 3 OF 7



样品测试报告(1)

■Customer(客户)				Part number(客户料号)		Model(机种):TF5408		
测试项目	OCL				Leakage Inductance			
测试条件	100 KHz, 0.1V @ 0mA DC Bias				100 KHz, 0.1V			
使用设备	TYD2879							
测试规格	200 uH				0.5uH			
容许误差	Min.				Max.			
脚位	2-3	5-6	8-9	11-12	2-3	5-6	8-9	11-12
1	435.9	440.1	443.2	442.3	0.10	0.11	0.10	0.09
2	433.4	437.4	438.2	439.5	0.09	0.11	0.11	0.10
3	439.8	435.7	437.4	439.5	0.09	0.10	0.10	0.09
4	431.3	436.8	439.4	438.9	0.11	0.10	0.09	0.09
5	430.8	438.3	428.9	430.5	0.09	0.09	0.09	0.10
6	431.8	440.4	437.9	438.5	0.10	0.10	0.10	0.10
7	429.0	429.8	440.4	433.3	0.09	0.11	0.10	0.10
8	438.0	438.7	438.9	438.4	0.10	0.09	0.11	0.10
9	438.4	441.3	437.5	437.5	0.09	0.10	0.09	0.10
分項判定	pass	pass	pass	pass	pass	pass	pass	pass
DRAWN BY:		CHECKED BY:		APPROVED BY:		CUSTOMER:		
Season		DellyDeng		JamesYan		PARTNO. : TF5408		
DONGGUAN TIANFU ELECTRONICS CO.,LTD						REV.: A		
						PAGE: 4 OF 7		

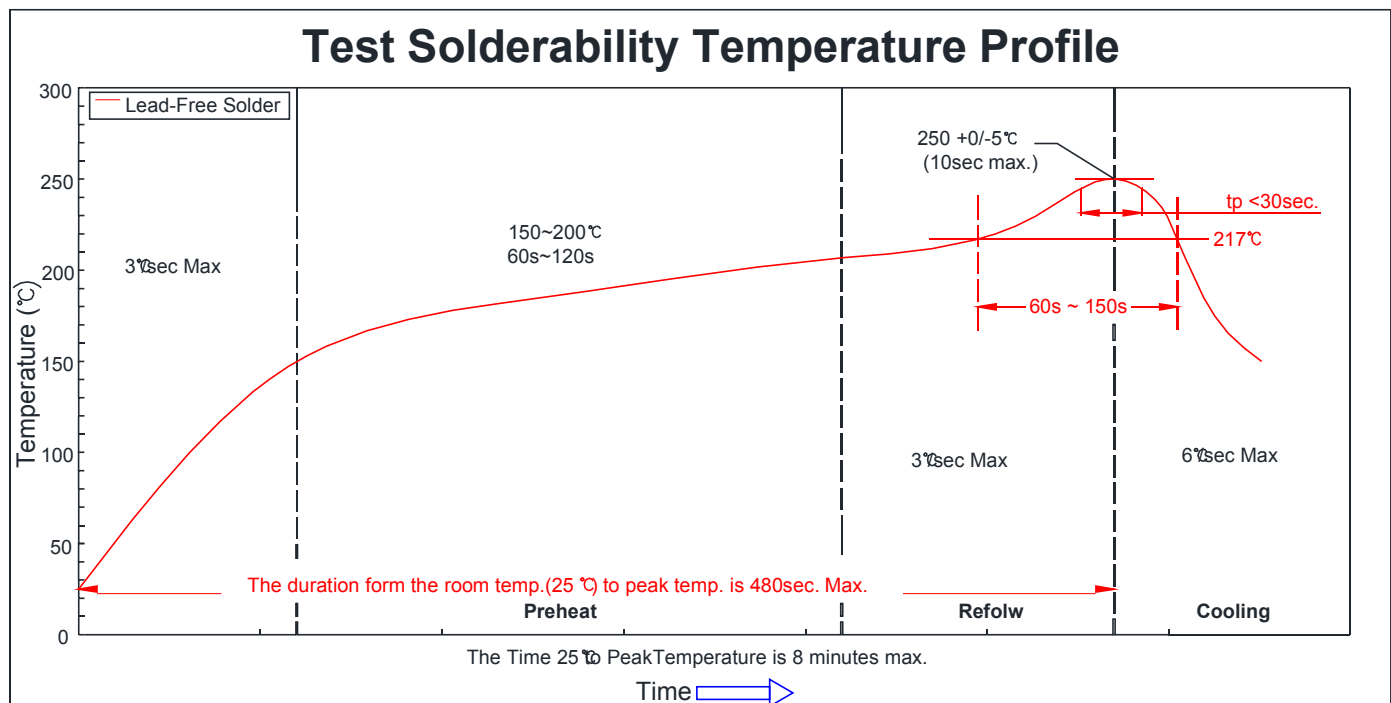


样品测试报告(2)

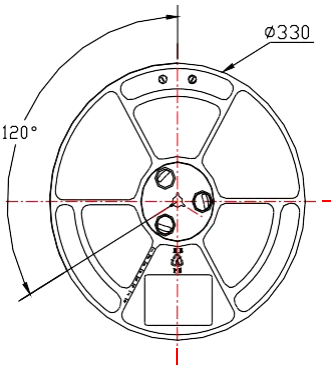
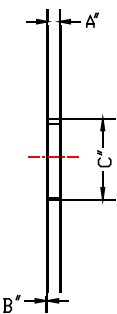
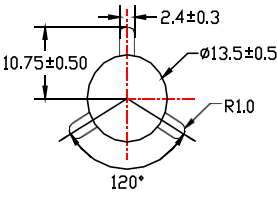
■Customer(客户)				Part number(客户料号)				Model(機種):TF5408	
测试项目	CW/W				DCR				
测试条件	100 KHz, 0.1V				@25°C				
使用设备	TYD2879								
测试规格	30pF				1.0Ω				
容许误差	Max.				Max.				
脚位	2-23	5-20	8-17	11-14	2-3	5-6	8-9	11-12	
1	17.8	18.1	18.1	18.1	0.37	0.39	0.39	0.38	
2	18.3	17.9	18.3	18.1	0.39	0.39	0.39	0.39	
3	17.8	18.2	17.9	18.3	0.38	0.38	0.38	0.39	
4	18.2	18.2	17.81	18.1	0.38	0.39	0.38	0.39	
5	17.2	18.3	17.8	18.3	0.39	0.39	0.37	0.38	
6	17.8	17.2	18.1	18.1	0.38	0.39	0.38	0.38	
7	17.8	17.9	18.0	18.1	0.38	0.38	0.38	0.39	
8	17.9	17.4	18.1	18.1	0.38	0.38	0.39	0.39	
9	18.3	17.8	17.9	17.9	0.37	0.39	0.39	0.38	
分項判定	pass	pass	pass	pass	pass	pass	pass	pass	
DRAWN BY:		CHECKED BY:		APPROVED BY:		CUSTOMER:			
Season		DellyDeng		JamesYan		PARTNO. : TF5408			
DONGGUAN TIANFU ELECTRONICS CO.,LTD						REV.: A			
						PAGE: 5 OF 7			

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		TF5408		<2>Customer																												
<3> Product Size				<4> Version		1.0																										
<5> Package Item:	1. Each Reel Qty		400	X	6 (Total Reel in Carton)	=	2400 PCS																									
	2.Total unit transformer in carton		2400	X	1 (Carton Qty)	=	2400 PCS																									
<6>Product weight																																
unit	1.65	g	N.W.	1	kg	G.W.	7 Kg																									
<7> Remark:																																
1. PIN1 faces the apertures if apertures are only on one side. PIN1 faces the round aperture if the apertures are on both sides. 2. Leave 160mm-taping before starting taping; leave 390mm-taping after taping. 3. Wrap the protected-tape around the reel after taping. 4. Pack the reel with bag and seal it before putting into the carton. 5. Hard cardboard will be placed in each corner of the carton for protection. 6. Cartons will be sealed with tape.																																
<9> Reel Dimension																																
   <table><tr><td></td><td></td><td></td><td>✓</td><td></td></tr><tr><td>SPEC</td><td>16</td><td>24</td><td>32</td><td>44</td></tr><tr><td>DIM A"</td><td>16.5</td><td>24.5</td><td>32.5</td><td>44.5</td></tr><tr><td>DIM B"</td><td>1.8</td><td>1.8</td><td>1.8</td><td>1.8</td></tr><tr><td>DIM C"</td><td>100</td><td>100</td><td>100</td><td>100</td></tr></table>											✓		SPEC	16	24	32	44	DIM A"	16.5	24.5	32.5	44.5	DIM B"	1.8	1.8	1.8	1.8	DIM C"	100	100	100	100
			✓																													
SPEC	16	24	32	44																												
DIM A"	16.5	24.5	32.5	44.5																												
DIM B"	1.8	1.8	1.8	1.8																												
DIM C"	100	100	100	100																												
<10> Packing Illustration																																
