

FLY_CORE

飞芯国际股份有限公司

上海办事处

产品承认书

CUSTOMER	CUSTOMER NO.	Fly-core PART NO.
		HS503T
DESCRIPTION:	10/100/1000 BASE-T TRANSFORMER MODULES	

ATTACHMENT:

■ SPECIFICATION

■ SAMPLE Q'TY OF SAMPLES _____ PCS

CUSTOMER APPROVAL (客户承认章)	KDY APPROVAL (公司承认章)

SALES BY:		DRAWN BY:	Season
QA DEPT. :		CHECKED BY:	BELIEF
ENG. DEPT.:		APPROVAL BY:	Jameschen

成都浩然电子有限公司

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微信公众号



手机淘宝商城

1. FEATURES:

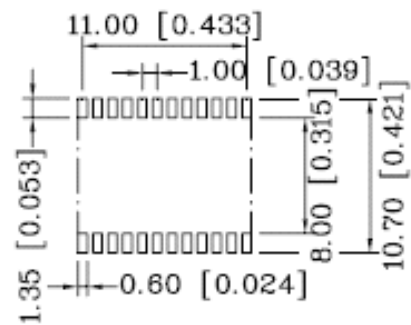
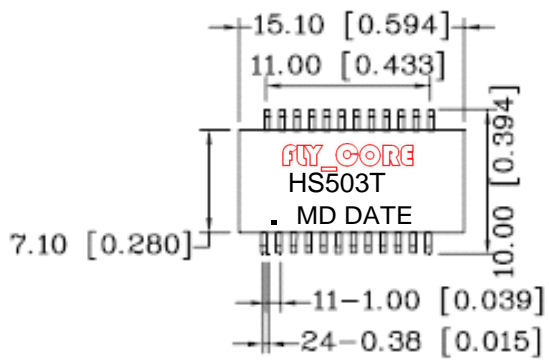
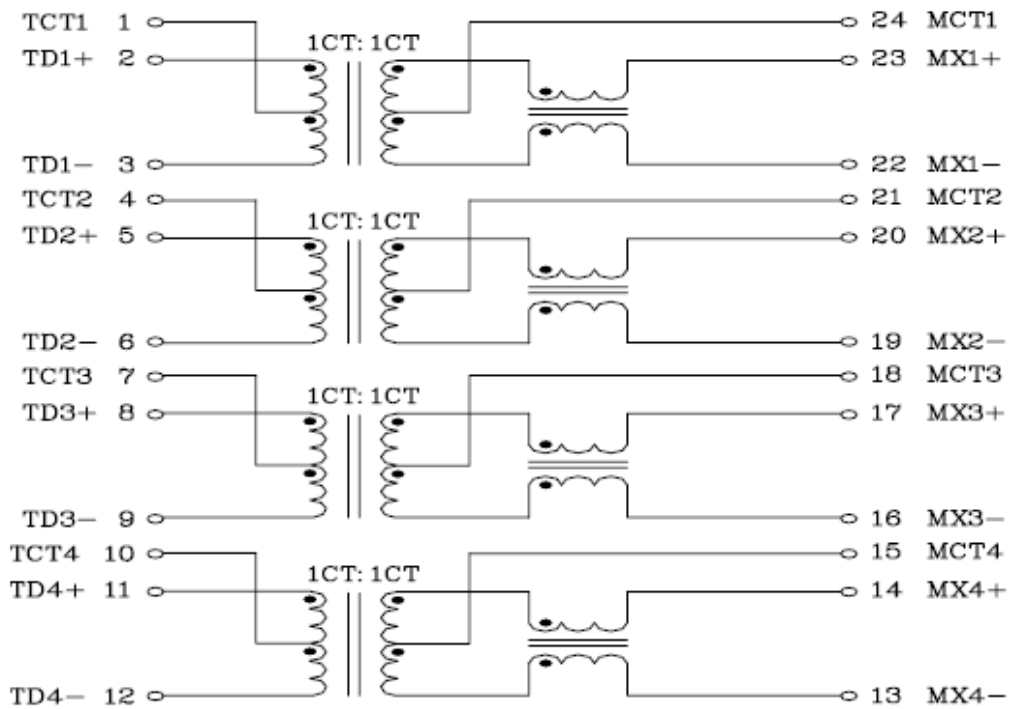
- 1.1 Compatible with various 10/100/1000 Base-TX transceiver requiring 1:1 transmit and receive turns ratio
- 1.2 Compliant with IEEE 802.3 standard including baseline wander compensation specification of 350uH OCL when Biased at 8mA from -40°C TO +85°C
- 1.3 Low profile Surface Mount Packaging designed for Hi-Temp Reflow Process (255°C peak)
- 1.4 Single channel interface for 10/100/1000Mbps Ethernet applications with CMC's tuned to Enhance EMC system performance
- 1.5 Operating Temperature Rang: -40°C TO 85°C

2.ELECTRICAL SPECIFICATIONS @25°C

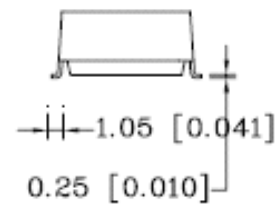
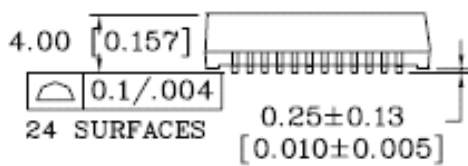
- 2.1 OCL : 350 uH Min. @ 100 KHz, 100mV with 8mA DC Bias
- 2.2 Leakage Inductance: 0.5 uH Max. @ 100KHz, 0.1V
- 2.3 Cw/w: 30 pF Max. @ 100KHz, 0.1V
- 2.4 DCR: 1.30Ω Max.
- 2.5 Turns Ratio(±5%): 1CT:1CT(TX), 1CT:1CT(RX)
- 2.6 Insertion Loss: -1.1 dB Max. @ 1-100MHz
- 2.7 Return Loss: -16 dB Min. @ 1-30MHz
 - 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:



SUGGESTED PAD LAYOUT



Units: mm[Inches] all Tolerance are :±0.25[0.010]

TURNS 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.With8mA DC Bias)										
2-3	446	393	491	509	505					
5-6	454	439	495	406	481					
8-9	446	393	491	509	505					
11-12	454	439	495	406	481					
LK:(AT 100KHz, 0.1V)										
0.5 uH Max.										
2-3(23-22short)	0.19	0.15	0.20	0.24	0.22					
5-6(20-19 short)	0.20	0.22	0.24	0.23	0.20					
8-9(17-16short)	0.19	0.15	0.20	0.24	0.22					
11-12(14-13 short)	0.20	0.22	0.24	0.23	0.20					
Cw/w:(AT 100KHz, 0.1V)										
30 pF Max.										
1-24	25	23	20	19	21					
4-21	25	23	20	19	21					
7-18	25	23	20	19	21					
10-15	25	23	20	19	21					

MAIN TEST EQUIPMENT

- TOPWARD TPT-500 WITHSTANDING VOLTAGE TESTER
- HEWLETT PACKARD 4277A LCZ METER
- CHEN HWA 3250 AUTOMATIC TRANSFORMER TEST SYSTEM
- CHEN HWA 502A LOW-OHM METER
- RF NETWORK ANALYZERS HP8712ET

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