产品承认书
SPECIFICATION FOR APPROVAL

CUSTOMER:	
CUSTOMER P/N:	
JXD P/N. :	**B1201D**
DESCRIPTION:	**10/100 BASE-T MAGNETICS MODULES**
REF NO:	**QTC-005**
REV/NO:	**A/0**
DATE:	**2014-9-28**

ATTACHMENT:

■ SPECIFICATION

■ SAMPLE Q'TY OF SAMPLES _____ PCS

	√	CUSTOMER'S SIGNATURE	REMARK
FULL APPROVED			
CONDITIONAL APPROVED			
REJECTED			

深圳磁联达电子有限公司

Shenzhen CND-TEK Industrial Co.,Ltd

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RoHS Compliant

Pb

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 when Biased at 8mA from 0℃ to 70℃

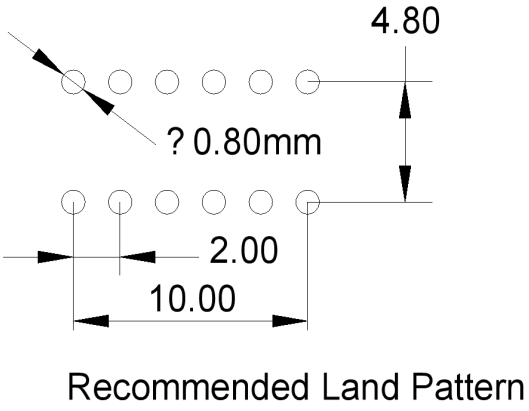
1.3 Single channel interface for 10/100Mbps Ethernet applications with CMC's tuned to Enhance EMC system performance

1.4 Availiable in Through Hole package.

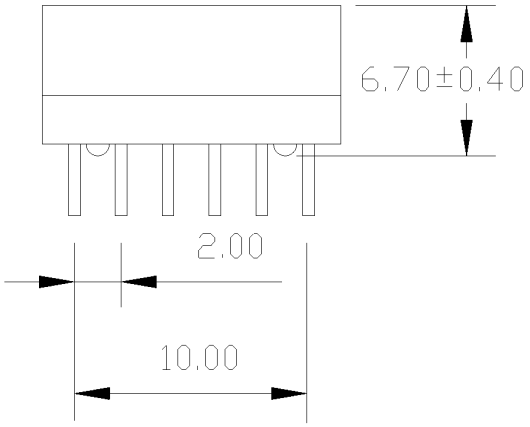
1.5 Operating Temperature range: 0℃ TO +70℃

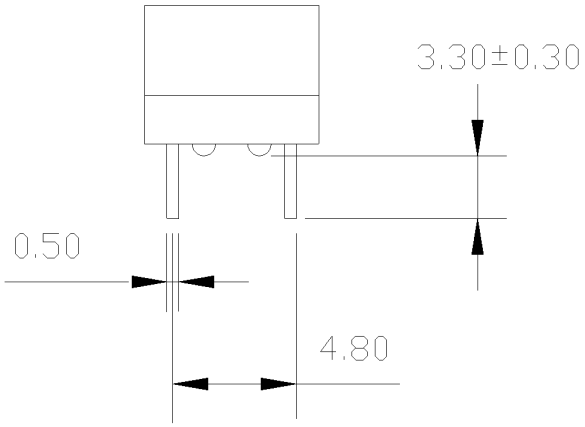
1.6 Storage temperature range: -25℃ TO +125℃

2. DIMENSIONS & MARKING



Recommended Land Pattern



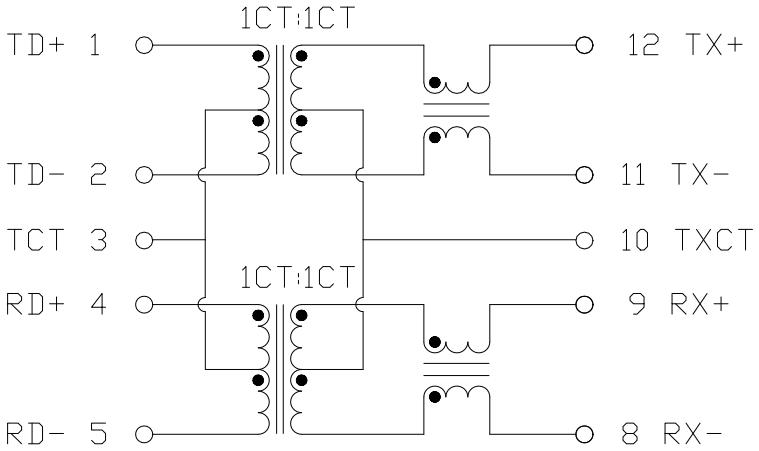


Note：1、Dimension：mm

2、Unless otherwise specified,all tolerances are：±0.05mm

DRAWN BY: CHECKED BY:	APPROVED BY:	CUSTOMER:	
		PART NO.：B1201D	
JXD	深圳磁联达电子有限公司		REV.: A/0
	Shenzhen magnetic Lianda Electronics Co. Ltd.		PAGE: 2 OF 4

3. SCHEMATICS:



4.ELECTRICAL SPECIFICATIONS @25℃

4.1 OCL : 350 µH Min. @ 100 KHz, 100mV with 8mA DC Bias

4.2 Leakage Inductance: 0.5 µH Max. @ 100KHz, 0.2V

4.3 Cw/w: 56 pF Max. @ 100KHz, 0.2V

4.4 DCR: 0.9 Max.

4.5 Turns Ratio(±5%): 1CT:1(TX), 1CT:1(RX)

4.6 Polarity: 1-12, 4-9 In-Phase

4.7 Insertion Loss: -1.1 dB Max. (TX & RX)@ 1-100 MHz

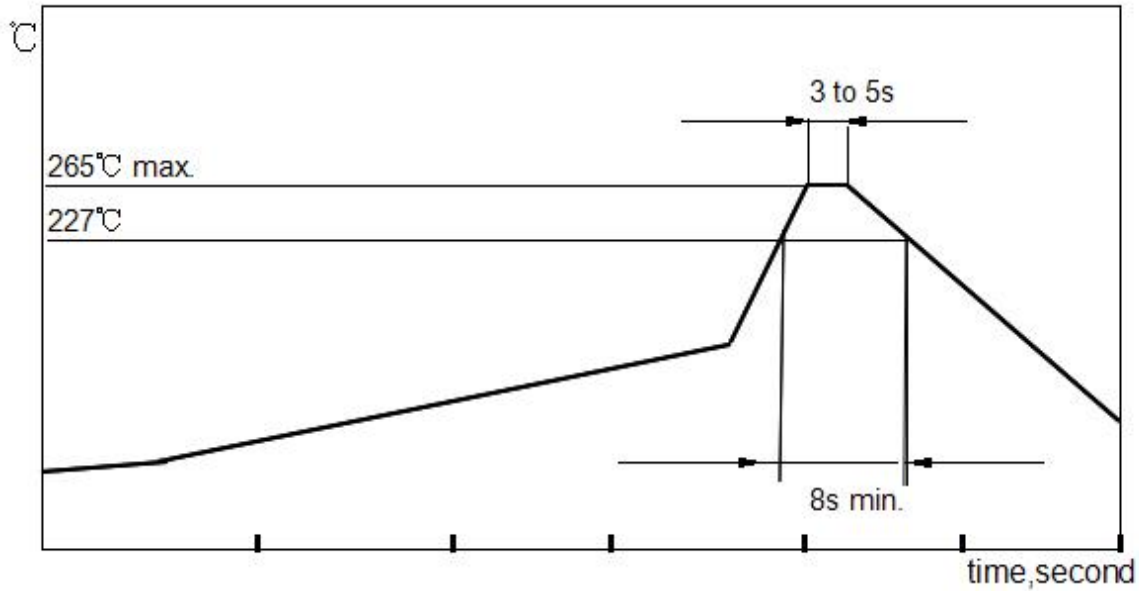
4.8 Return Loss: -18 dB Min @ 0.5-30MHz
-15 dB Min @ 40 MHz
-13 dB Min @ 60 MHz
-11 dB Min @ 80 MHz
-10 dB Min.@ 100 MHz

4.9 Cross Talk: -45 dB Min.@ 30 MHz
-40 dB Min.@ 60 MHz
-35 dB Min.@ 100 MHz

4.10 Common Mode Rejection : -43 dB Min.@ 1-30 MHz
-37 dB Min.@ 60 MHz
-33 dB Min.@ 80-100 MHz

4.11 Isolation HI-POT: 1500Vrms 1mA 1Second

5. Recommended Lead Free Wave Soldering Curve :



Item	Soldertechnique simulation	Temperature (℃)	Time(s)	Temperature ramp/immersion and emersion rate
1	Solder iron	350±10 (solder irno temp)	4~5	
2	Vapor phase reflow	215±5 (vapor temp)	10±1	25mm/s±6mm/s
3	Wave:TopsideBoard-mount product	260±5 (solder temp)	20±1	
4	Wave:BottomsideBoard-mount	260±5 (solder temp)	10±1	Preheat 1℃/s~4℃/s to within 100℃ of solder temp
5	Vapor phase reflow	215±5 (vapor temp)	215±5 (vapor temp)	

6. Reliability Test Criteria：

6.1 Terminal strength: Pull test withstand 9.8N 60+/-0.5S no looseness or movement.

6.2 Solderbility: Dipped in 245℃+/-5℃ molten solder for 3+/-0.5 seconds,95% min shall be smooth any and bright.

6.3 Resistance to soldering heat : Dip in 260℃+/- 5℃ molten solder for 5+/- 0.5 seconds. Shall not be any abnormality.

6.4 Vibration: 1.5mm amplitude total excursion 10-55-10 Hz traversed in 1minute, x.y.z, axis for 2 hours. Shall not be any abnormality.

6.5 Random drop (Packing condition): Height 60cm, 3 times on the wood floorboard ,shall not be any abnormality.

6.6 Dry heat: 100+/-2℃ 96 hours.

6.7 Cold: -20+/-2℃ 96 hours.

6.8 Damp Heat: 60+/-2℃, 93+/-3% RH 96 hours.

6.9 Change of temperature: exposed 5 cycle; each consisting of 30 minutes at -20+/-2℃,2-3minutes at 20+/-2℃,30 minutes at 85+/-2℃, 2-3 minutes at 20+/-2℃.