

# 产品承认书

## SPECIFICATION FOR APPROVAL

CUSTOMER:

\_\_\_\_\_

CUSTOMER P/N:

\_\_\_\_\_

CND-TEK P/N.:

G3002D

DESCRIPTION:

100/1000 BASE-T MAGNETICS MODULES

REF NO:

\_\_\_\_\_

REV/NO:

A/0

DATE:

2017-6-1

ATTACHMENT:

■ SPECIFICATION

■ SAMPLE Q'TY OF SAMPLES \_\_\_\_\_ PCS

	√	CUSTOMER'S SIGNATURE	REMARK
FULL APPROVED			
CONDITIONAL APPROVED			
REJECTED			

**CND-TEK**

深圳磁联达电子有限公司

Shenzhen CND-TEK Electronics Co. Ltd.

公司地址: 深圳市南山区西丽街道牛成路221号5楼西座

TEL: 86-755-29016433

FAX: 86-0755-27652977

Email: sales1@cd-tek.com

Http: //www.cd-tek.com

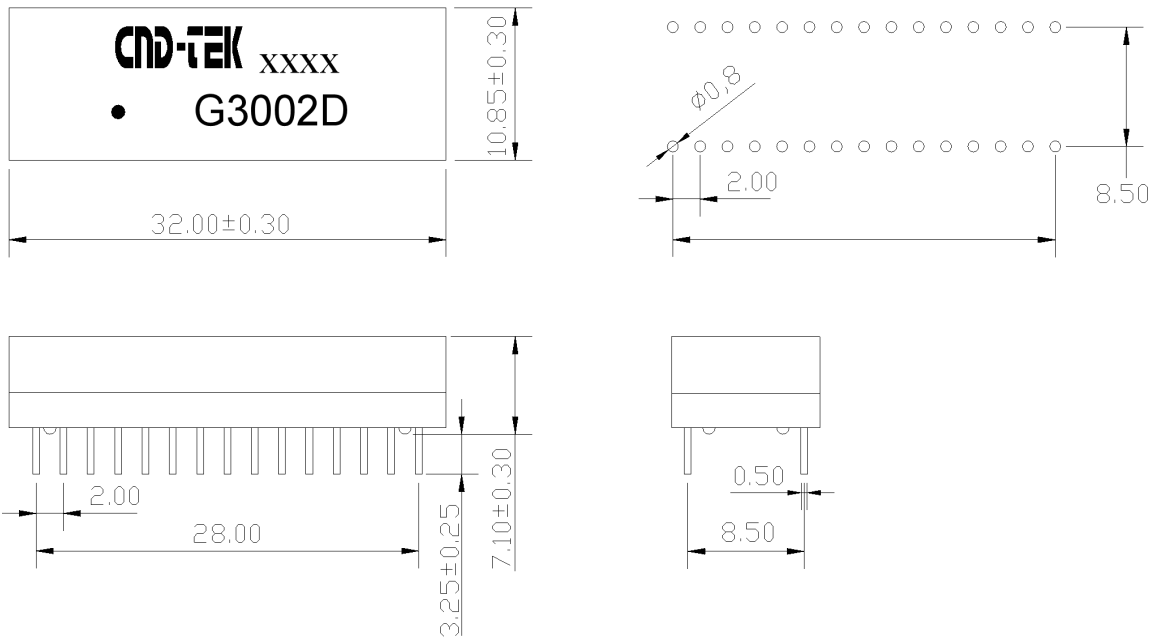
RoHS  
Compliant



## 1. FEATURES:

- 1.1 Quad Port transformer Modules (100/1000 Base-TX) for Auto MDI/MDIX applications.
- 1.2 Designed to meet IEEE802.3 & ANSI X3.263 requirement.
- 1.3 Available in Through Hole package.
- 1.4 Designed to meet IR 255°C peak requirement.
- 1.5 RoHS Compliant
- 1.6 Operating Temperature range: 0°C TO +70°C
- 1.7 Storage temperature range: -25°C TO +125°C

## 2. DIMENSIONS & MARKING

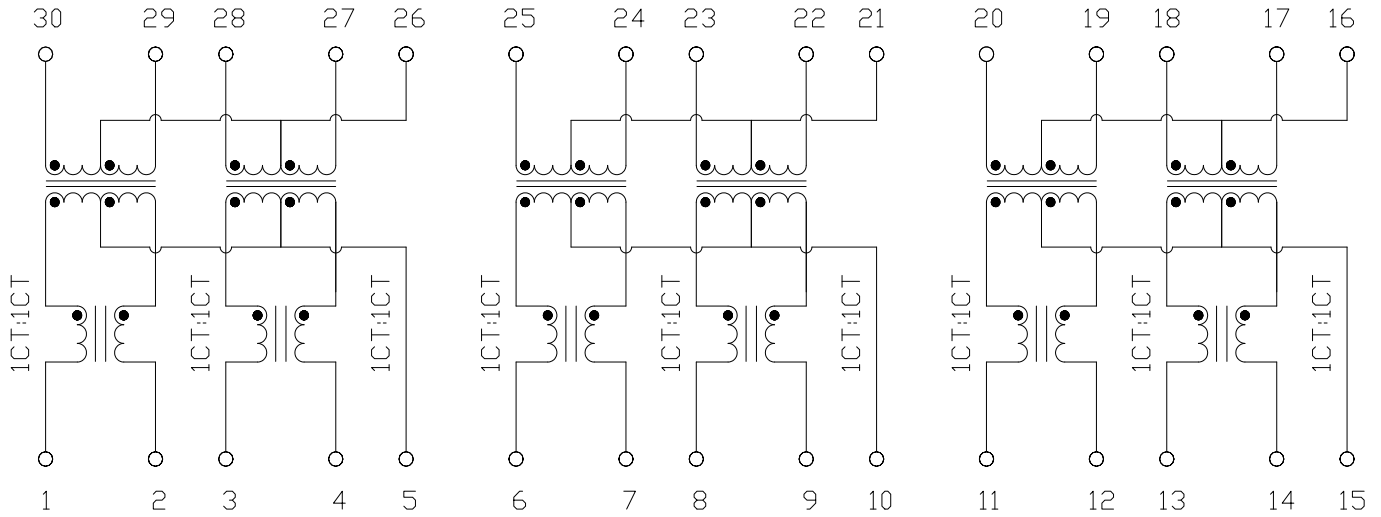


**Note:** 1、 Dimension: mm

2、 Unless otherwise specified, all tolerances are:  $\pm 0.05$ mm

DRAWN BY:		CHECKED BY:		APPROVED BY:		CUSTOMER:	
liyonghua		guojunhui		jiuguijiang		PART NO. : G3002D	
CND-TEK		深圳磁联达电子有限公司				REV.: A/0	
		Shenzhen CND-TEK Electronics Co. Ltd.				PAGE: 2 OF 4	

### 3. SCHEMATICS:

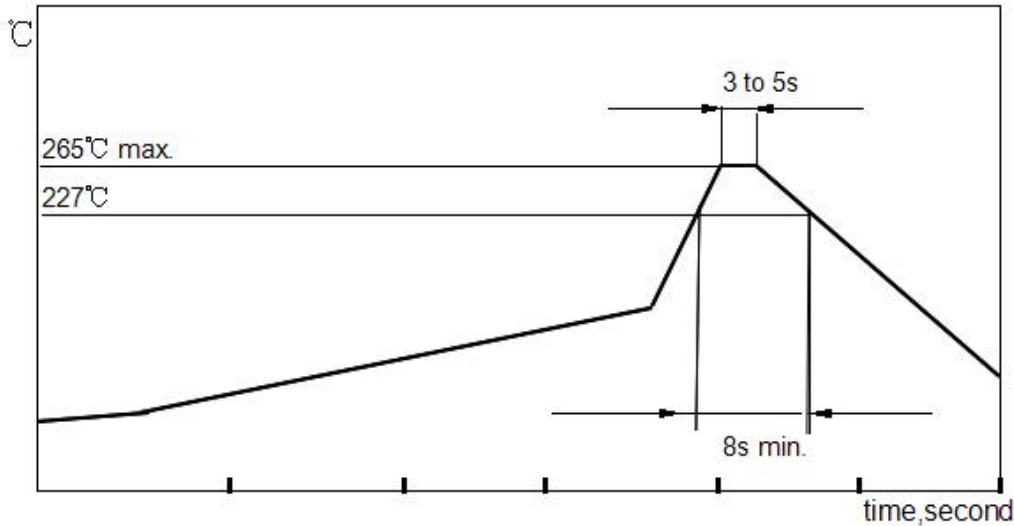


### 4. ELECTRICAL SPECIFICATIONS @25°C

- 4.1 OCL : 350  $\mu$ H Min. @ 100 KHz, 100mV with 8mA DC Bias
- 4.2 Leakage Inductance: 0.5  $\mu$ H Max. @ 100KHz, 0.2V
- 4.3 Cw/w: 56 pF Max. @ 100KHz, 0.2V
- 4.4 DCR: 1.20  $\Omega$  Max.
- 4.5 Turns Ratio( $\pm$ 5%): 1CT:1(TX), 1CT:1(RX)
- 4.6 Polarity: 1-30, 3-28, 6-25, 8-23, 11-20, 13-18 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
- 4.11 Isolation HI-POT: -33 dB Min.@ 80-100 MHz
  - 1500Vrms 1mA 6Second

DRAWN BY:		CHECKED BY:		APPROVED BY:		CUSTOMER:	
liyonghua		guojunhui		jiuguijiang		PART NO. : G3002D	
		深圳磁联达电子有限公司				REV.: A/0	
		Shenzhen CND-TEK Electronics Co. Ltd.				PAGE: 3 OF 4	

## 5. Recommended Lead Free Wave Soldering Curve :



Item	Soldertechnique simulation	Temperature (°C)	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:TopsideBoar d-mount product	260±5 (solder temp)	20±1	
4	Wave:BottomsideB oard-mount	260±5 (solder temp)	10±1	Preheat 1°C/s~4°C/s to within 100°C of solder temp
5	product Vapor phase reflow	215±5 (vapor temp)	215±5 (vapor temp)	25mm/s±6mm/s

## 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°C+/-5°C molten solder for 3+/-0.5 seconds,95% min shall be smooth any and bright.

6.3 Resistance to soldering heat : Dip in 260°C+/- 5°C 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°C 96 hours.

6.7 Cold: -20+/-2°C 96 hours.

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

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

DRAWN BY:	CHECKED BY:	APPROVED BY:	CUSTOMER:
liyonghua	guojunhui	jiuguijiang	PART NO. : G3002D
<b>CND-TEK</b>	深圳磁联达电子有限公司		REV.: A/0
	Shenzhen CND-TEK Electronics Co. Ltd.		PAGE: 4 OF 4