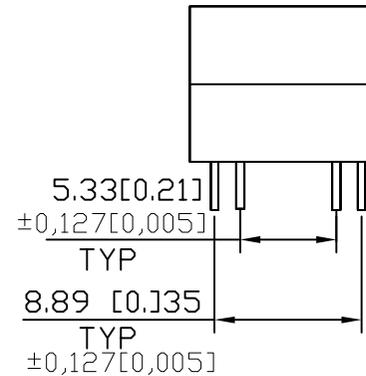
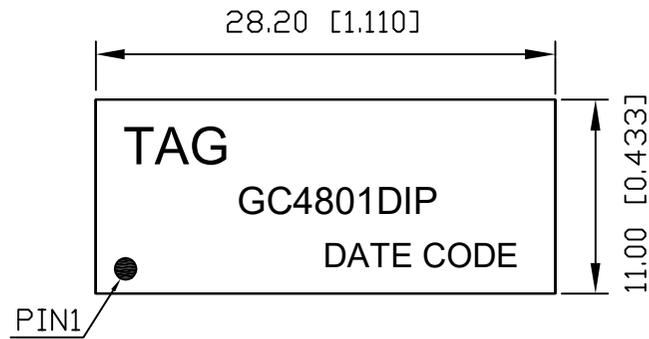


1. MECHANICAL DIMENSIONS :

REV.	CHANGE DESCRIPTION	DATE
A	New Issue	2012-12-06
B	增加PCB Hole Size	2016-5-12

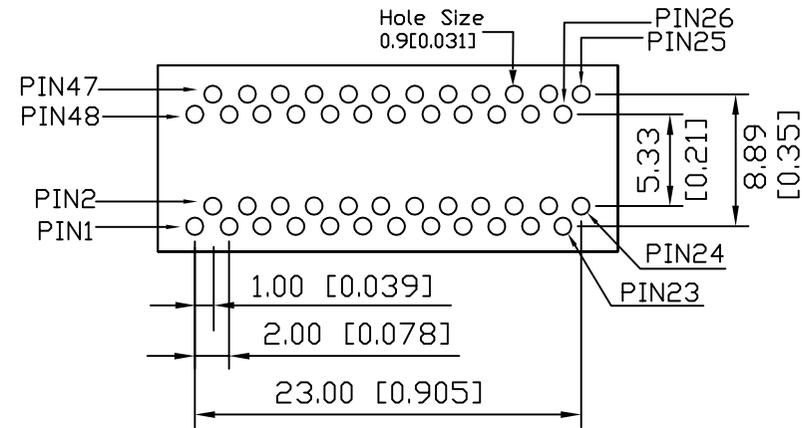
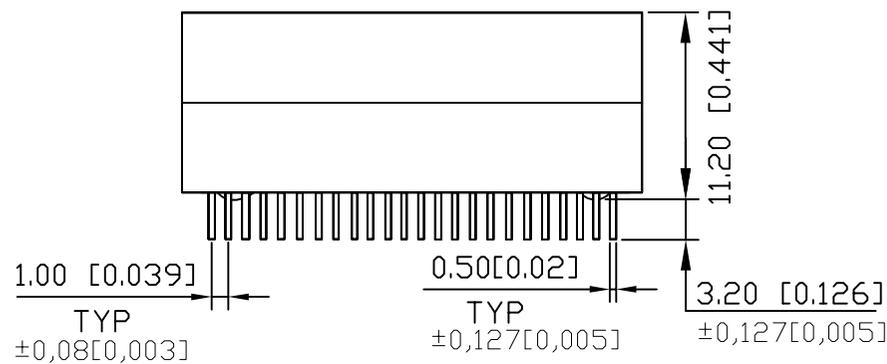


A

A

B

B



RECOMMENDED PCB LAYOUT

RoHS Compliant

C

NOTE. DIMENSIONS:MM(INCHES)/UNLESS OTHERWISE SPECIFIED ALL TOLERANCES ARE ±0.50(0.020).

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ECO TECH CO., LTD.

A4
SIZE

TAG PART NO.:
GC4801DIP

VENDOR PART NO.:

Drawn: Zhang Xue

Designed: Yang Tian

Approved: Deane

Date: 2016-5-12

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DESCRIPTION:

100/1000 BASE-T TRANSFORMER MODULES

UNIT mm

USED ON

SHEET

1

OF

2

REV. B

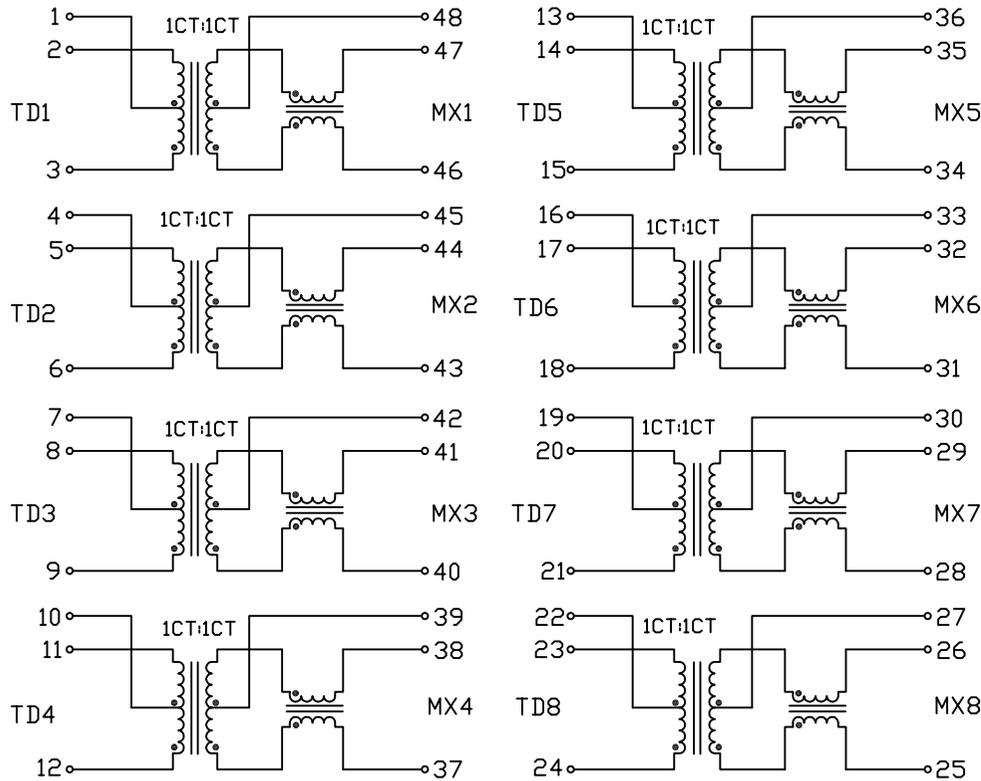
1

2

3

4

2. SCHEMATIC:



RoHS Compliant

3. ELECTRICAL CHARACTERISTICS :

TEST NOTES:(25°±5°C)

- TR:(100KHz,0.1V) ; 100%
PINS:(2,3)<(47,46)=1:1±5%;(5,6)<(44,43)=1:1±5%
PINS:(8,9)<(41,40)=1:1±5%;(11,12)<(38,37)=1:1±5%
PINS:(14,15)<(35,34)=1:1±5%;(17,18)<(32,31)=1:1±5%
PINS:(20,21)<(29,28)=1:1±5%;(23,24)<(26,25)=1:1±5%
- LX:(100KHz,100mV,8mA DC Bias) ; 100%
PINS:(2,3),(5,6),(8,9),(11,12),(14,15),(17,18),(20,21),(23,24)=350uH MINIMUM
- DCR ; 100%
PINS:(47,46),(44,43)<(41,40),(38,37),(35,34),(32,31),(29,28),(26,25)=1.2Ω MAXIMUM
- Cw/w:
PINS:(2,3)TQ<(47,46);(5,6)TQ<(44,43);(8,9)TQ<(41,40);(11,12)TQ<(38,37)=45pF MAX.
PINS:(14,15)TQ<(35,34);(17,18)TQ<(32,31);(20,21)TQ<(29,28);(23,24)TQ<(26,25)=45pF MAX.
- LK ; 100%
PINS:(2,3)<(short47,46);(5,6)<(short44,43)=0.8uH MAX.
PINS:(8,9)<(short41,40);(11,12)<(short38,37)=0.8uH MAX.
PINS:(14,15)<(short35,34);(17,18)<(short32,31)=0.8uH MAX.
PINS:(20,21)<(short29,28);(23,24)<(short26,25)=0.8uH MAX.
- HIPOT; 100%
PINS:(2,1,3)TQ<(47,48,46);(5,4,6)TQ<(44,45,43)=1500VAC FOR 60 SECONDS
PINS:(8,7,9)TQ<(41,42,40);(11,10,12)TQ<(38,39,37)=1500VAC FOR 60 SECONDS
PINS:(14,13,15)TQ<(35,36,34);(17,16,18)TQ<(32,33,31)=1500VAC FOR 60 SECONDS
PINS:(20,19,21)TQ<(29,30,28);(23,22,24)TQ<(26,27,25)=1500VAC FOR 60 SECONDS
- INSERTION LOSS:
-1.0dB MAXIMUM AT 1MHz TO 100MHz;
- RETURN LOSS:
-18dB MINIMUM AT 1MHz TO 30MHz;
-14.4dB MINIMUM AT 30MHz TO 40MHz;
-13.1dB MINIMUM AT 40MHz TO 50MHz;
-12dB MINIMUM AT 60MHz TO 80MHz;
-10dB MINIMUM AT 80MHz TO 100MHz;
- CROSS TALK
-40dB MINIMUM AT 1MHz TO 30MHz;
-35dB MINIMUM AT 30MHz TO 60MHz;
-30dB MINIMUM AT 60MHz TO 100MHz;
- COMMON TO COMMON MADE REJECTION:
-40dB MINIMUM AT 1MHz TO 30MHz;
-35dB MINIMUM AT 30MHz TO 60MHz;
-30dB MINIMUM AT 60MHz TO 100MHz;
- 720mA CURRENT CAPABILITY.
- OPERATING TEMPERATURE -40°C TO +85°C

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A4
SIZE

TAG PART NO.:
GC4801DIP

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Drawn: Zhang Xue

Designed: Yang Tian

Approved: Deane

Date: 2016-5-12

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DESCRIPTION:

100/1000 BASE-T TRANSFORMER MODULES

UNIT mm USED ON

SHEET 2 OF 2

REV. B