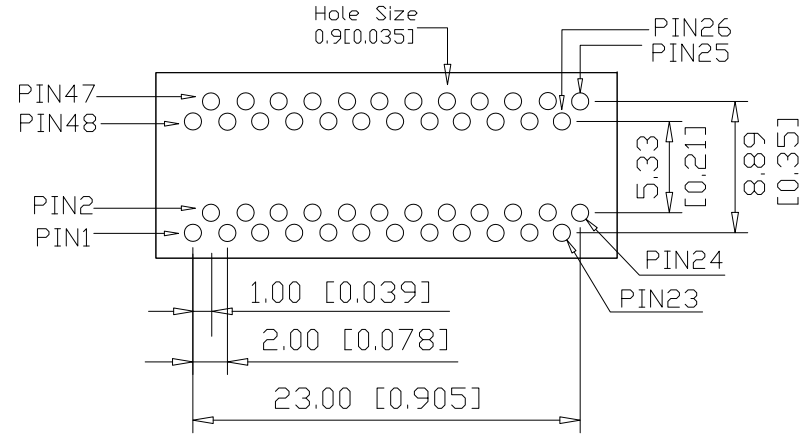
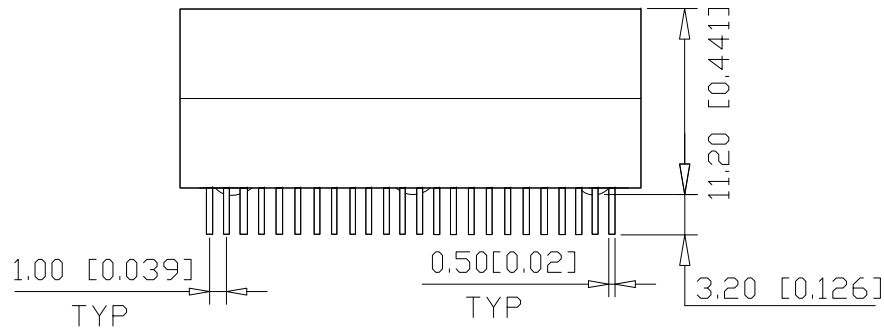
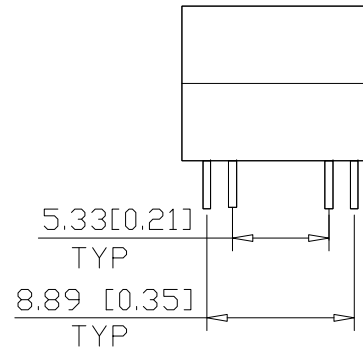


# 1. MECHANICAL DIMENSIONS :

| REV. | CHANGGE DESCRIPTION   | DATE       |
|------|---|------------|
| A    | New Issue   | 2011-9-9   |
| B    | 外观尺寸长由27.94mm改为28.2mm, 高由10.92mm改为11.2mm, PIN长由3.3mm改为3.2mm | 2012-8-23  |
| C    | 磊科产品PIN长改为2.0MM   | 2014-6-19  |
| D    | 增加DCMR测试  | 2014-12-05 |
| E    | PCB Hole Size 修改为0.9mm                                      | 2016-5-17  |



RECOMMENDED PCB LAYOUT



注①：磊科产品PIN长为 $2.0 \pm 0.254$ MM

NOTE. DIMENSIONS:MM(INCHES)/UNLESS OTHERWISE SPECIFIED ALL TOLERANCES ARE  $\pm 0.25$ (0.010).

**TAG** 泰安吉科技(深圳)有限公司  
TAG TECHNOLOGY CO., LTD.

A4  
SIZE

TAG PART NO.:  
GC4801D

VENDOR PART NO.:

Drawn: 肖丽芬

Designed: Evan

Approved: Paul Li

Date: 2016-5-17

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DESCRIPTION:

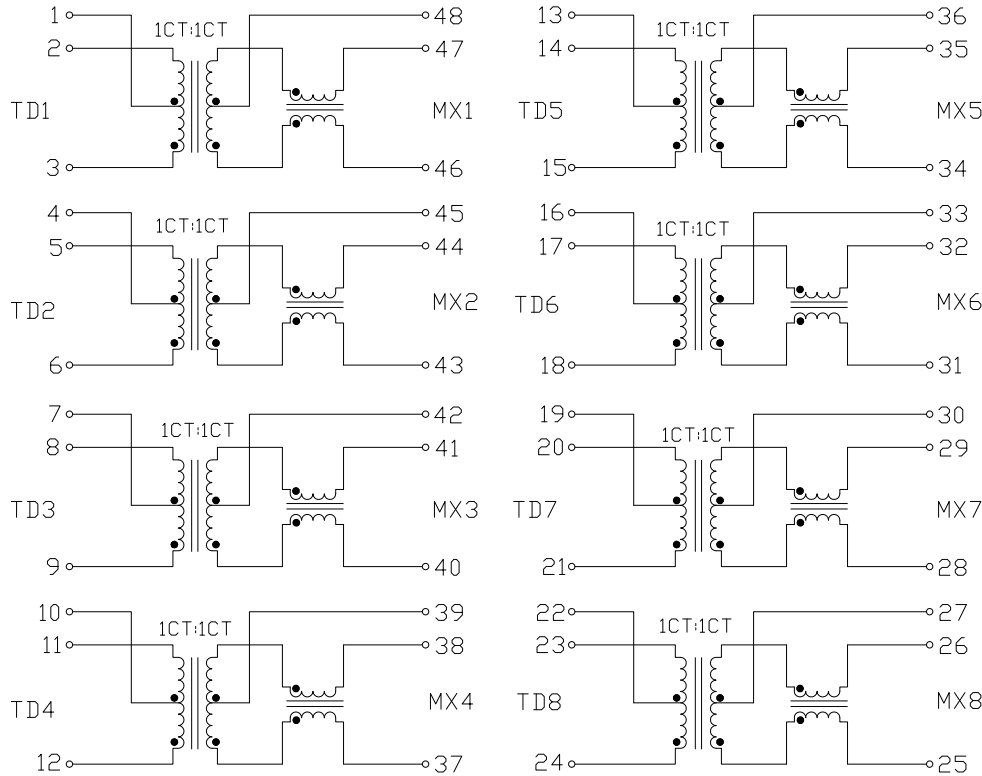
100/1000 BASE-T TRANSFORMER MODULES

UNIT mm USED ON

SHEET 1 OF 2

REV. D

## 2. SCHEMATIC:



## 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)=25pF MAX.  
PINS:(14,15)TQ(35,34);(17,18)TQ(32,31);(20,21)TQ(29,28);(23,24)TQ(26,25)=25pF MAX.
- LK; 100%  
PINS:(2,3)(short47,46);(5,6)(short44,43)=0.5uH MAX.  
PINS:(8,9)(short41,40);(11,12)(short38,37)=0.5uH MAX.  
PINS:(14,15)(short35,34);(17,18)(short32,31)=0.5uH MAX.  
PINS:(20,21)(short29,28);(23,24)(short26,25)=0.5uH 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:  
-10dB MAXIMUM AT 1MHZ TO 100MHZ;
- RETURN LOSS:  
-18dB MINIMUM AT 1MHZ TO 30MHZ;  
-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;
- DCMR:  
-40dB MINIMUM AT 1MHZ TO 30MHZ;  
-35dB MINIMUM AT 30MHZ TO 60MHZ;  
-30dB MINIMUM AT 60MHZ TO 100MHZ;
- OPERATING TEMPERATURE 0°C TO 70°C

| REV. | CHANGGE DESCRIPTION   | DATE       |
|------|---|------------|
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DESCRIPTION:

100/1000 BASE-T TRANSFORMER MDLULES

UNIT mm USED ON

SHEET 2 OF 2

REV. D