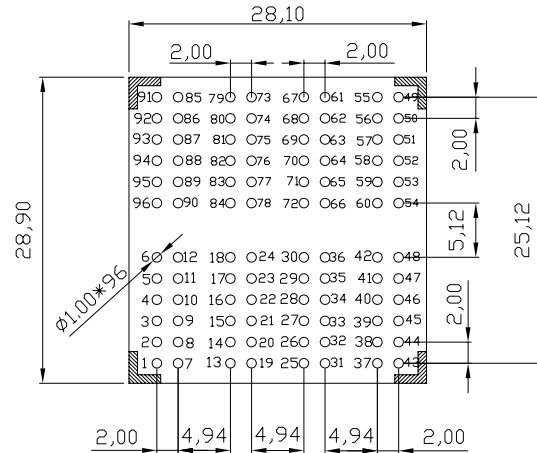
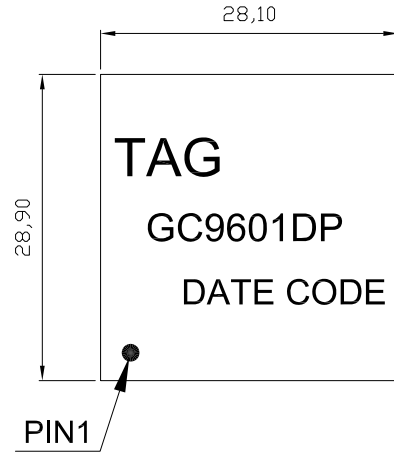
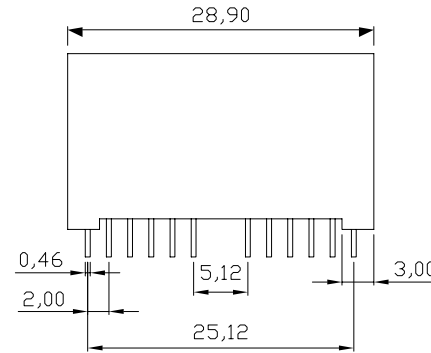
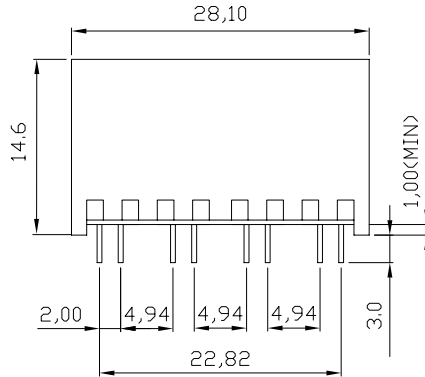


# 1. MECHANICAL DIMENSIONS :



NO COMPONENT AREA.  
SUGGESTED CUSTOMER PCB LAYOUT  
(COMPONENT SIDE)



RoHS Compliant

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

REV.	CHANGGE DESCRIPTION	DATE
01	New Issue	2011-9-13

**TAG** 億客科技股份有限公司  
ECO TECH CO., LTD.

A4  
SIZE

TAG PART NO.:  
**GC9601DP**

VENDOR PART NO.:

Drawn: Rita

Designed: Evan

Approved: Paul Li

Date: 2011-9-13

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THIRD ANGLE  
PROJECTION

DESCRIPTION:

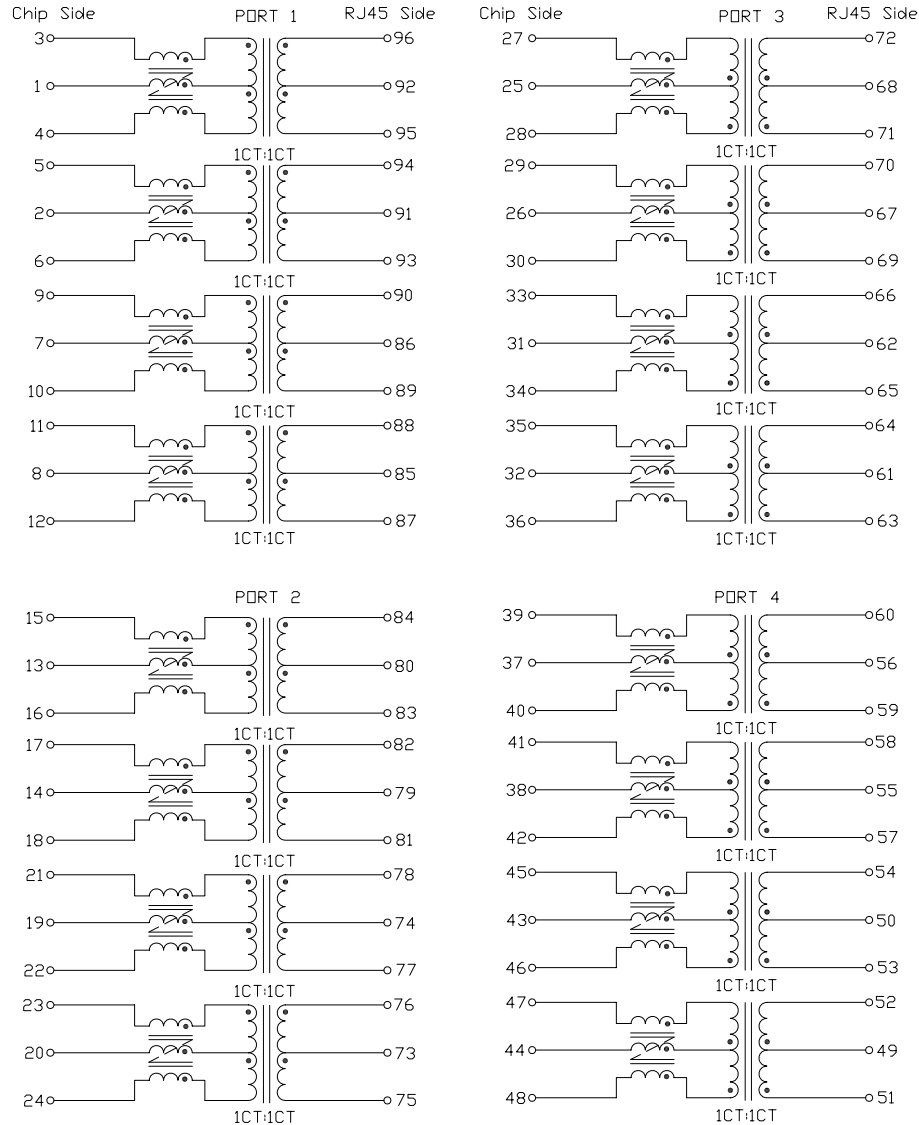
100/1000 BASE-T MAGNETICS MODULES

UNIT mm USED ON

SHEET 1 OF 2

REV. 01

## 2. SCHEMATIC:



## 3. ELECTRICAL CHARACTERISTICS :

- TEST NOTES:(25±5°C)
- TR:(100KHz,0.1V); 100%  
 PINS:(3,4):(96,95)=1±3%;(5,6):(94,93)=1±3%  
 PINS:(9,10):(90,89)=1±3%;(11,12):(88,87)=1±3%  
 PINS:(15,16):(84,83)=1±3%;(17,18):(82,81)=1±3%  
 PINS:(21,22):(78,77)=1±3%;(23,24):(76,75)=1±3%  
 PINS:(27,28):(72,71)=1±3%;(29,30):(70,69)=1±3%  
 PINS:(33,34):(66,65)=1±3%;(35,36):(64,63)=1±3%  
 PINS:(39,40):(60,59)=1±3%;(41,42):(58,57)=1±3%  
 PINS:(45,46):(54,53)=1±3%;(47,48):(52,51)=1±3%
  - LX:(100KHz,100mV,8mA, DC Bias) 100%  
 PINS:(3,4),(5,6),(9,10),(11,12),(15,16),(17,18),(21,22),(23,24)=350uH MINIMUM  
 PINS:(27,28),(29,30),(33,34),(35,36),(39,40),(41,42),(45,46),(47,48)=350uH MINIMUM
  - DCR: 100%  
 PINS:(96,95),(94,93),(90,89),(88,87),(84,83),(82,81),(78,77),(76,75)=1.3Ω MAXIMUM  
 PINS:(72,71),(70,69),(66,65),(64,63),(60,59),(58,57),(54,53),(52,51)=1.3Ω MAXIMUM
  - HIPOT: 100%  
 PINS(3,1,4)TO(96,92,95),(5,2,6)TO(94,91,93)=1500VAC FOR 60 SECONDS  
 PINS(9,7,10)TO(90,86,89),(11,8,12)TO(88,85,87)=1500VAC FOR 60 SECONDS  
 PINS(15,13,16)TO(84,80,83),(17,14,18)TO(82,79,81)=1500VAC FOR 60 SECONDS  
 PINS(21,19,22)TO(78,74,77),(23,20,24)TO(76,73,75)=1500VAC FOR 60 SECONDS  
 PINS(27,25,28)TO(72,68,71),(29,26,30)TO(70,67,69)=1500VAC FOR 60 SECONDS  
 PINS(33,31,34)TO(66,62,65),(35,32,36)TO(64,61,63)=1500VAC FOR 60 SECONDS  
 PINS(39,37,40)TO(60,56,59),(41,38,42)TO(58,55,57)=1500VAC FOR 60 SECONDS  
 PINS(45,43,46)TO(54,50,53),(47,44,48)TO(52,49,51)=1500VAC FOR 60 SECONDS
  - INSERTION LOSS:  
 -1.0dB MAXIMUM AT 1MHz TO 30MHz;  
 -1.8dB MAXIMUM AT 30MHz TO 100MHz;
  - RETURN LOSS:  
 -18dB MINIMUM AT 1MHz TO 30MHz;  
 -14.4dB MINIMUM AT 30MHz TO 60MHz;  
 -12dB MINIMUM AT 60MHz TO 80MHz;  
 -10dB MINIMUM AT 80MHz TO 100MHz;
  - CROSS TALK:  
 -43dB MINIMUM AT 1MHz TO 30MHz;  
 -38dB MINIMUM AT 30MHz TO 60MHz;  
 -33dB MINIMUM AT 60MHz TO 100MHz;
  - COMMON TO MODE REJECTION RATIO:  
 -40dB MINIMUM AT 1MHz TO 30MHz  
 -35dB MINIMUM AT 30MHz TO 60MHz  
 -30dB MINIMUM AT 60MHz TO 80MHz
  - 840mA MAX CURRENT CAPABILITY.
  - OPERATING TEMPERATURE 0°C TO 70°C.

RoHS Compliant

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THIRD ANGLE  
PROJECTION

DESCRIPTION:

100/1000 BASE-T MAGNETICS MODULES

UNIT mm USED ON

SHEET 2 OF 2

REV. 01