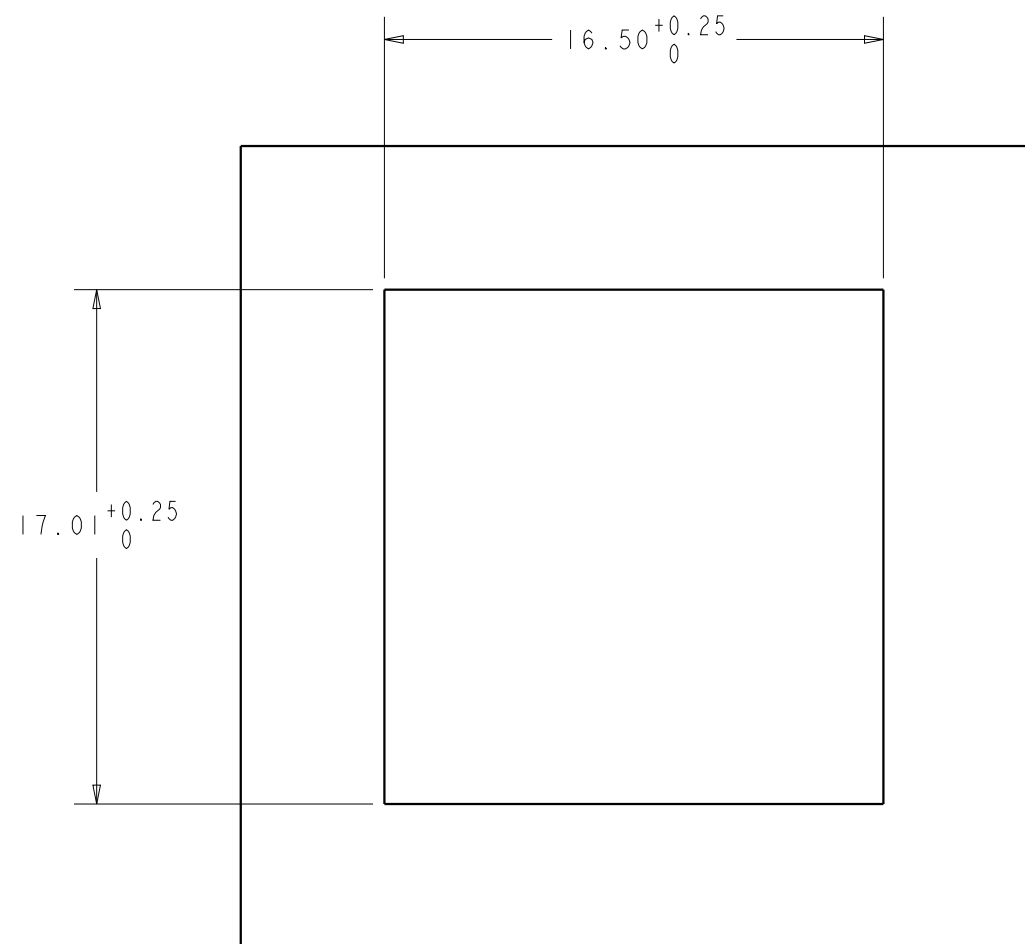
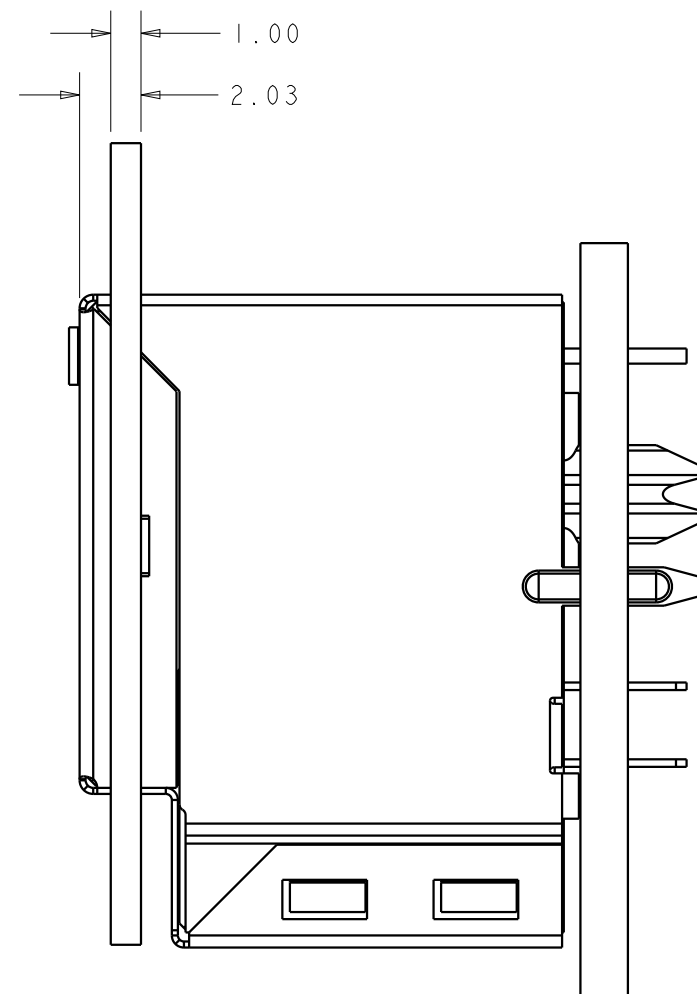
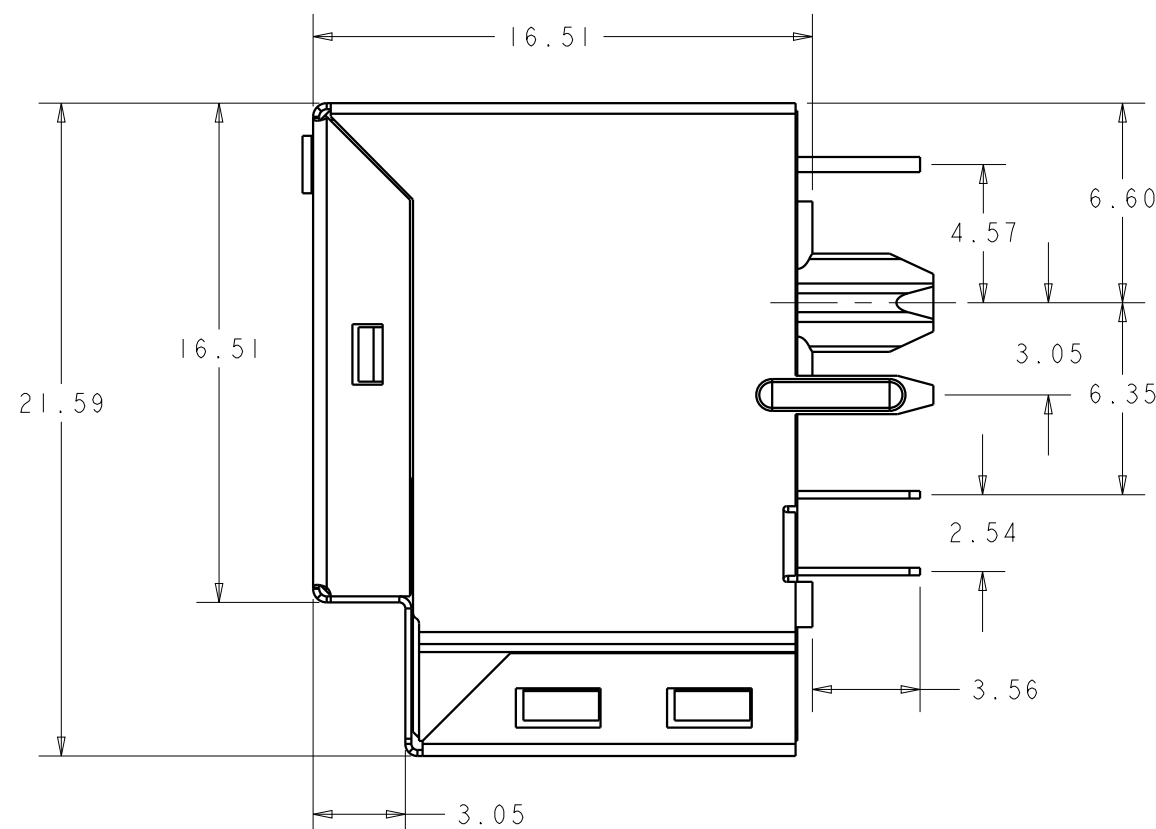
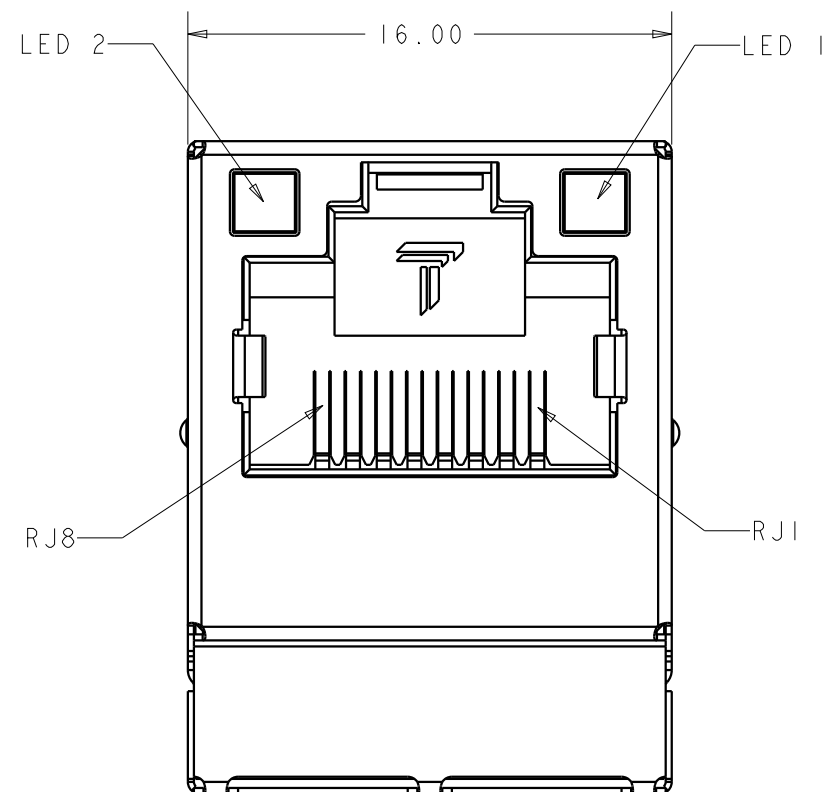
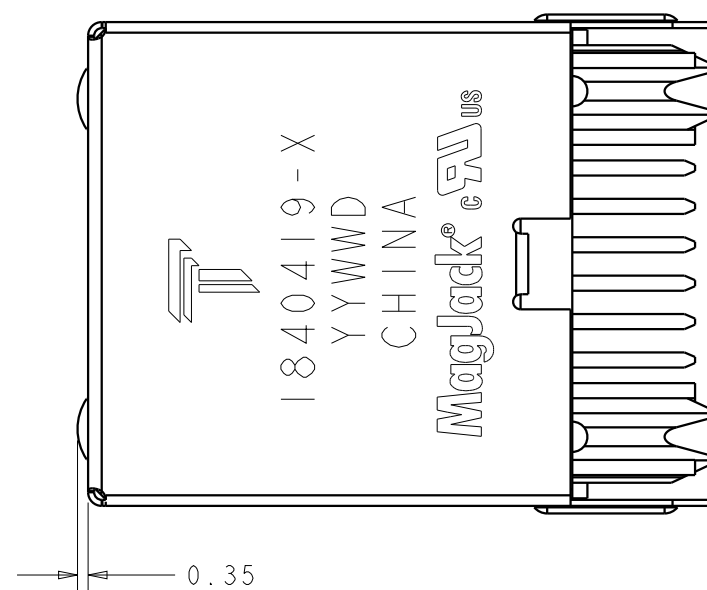
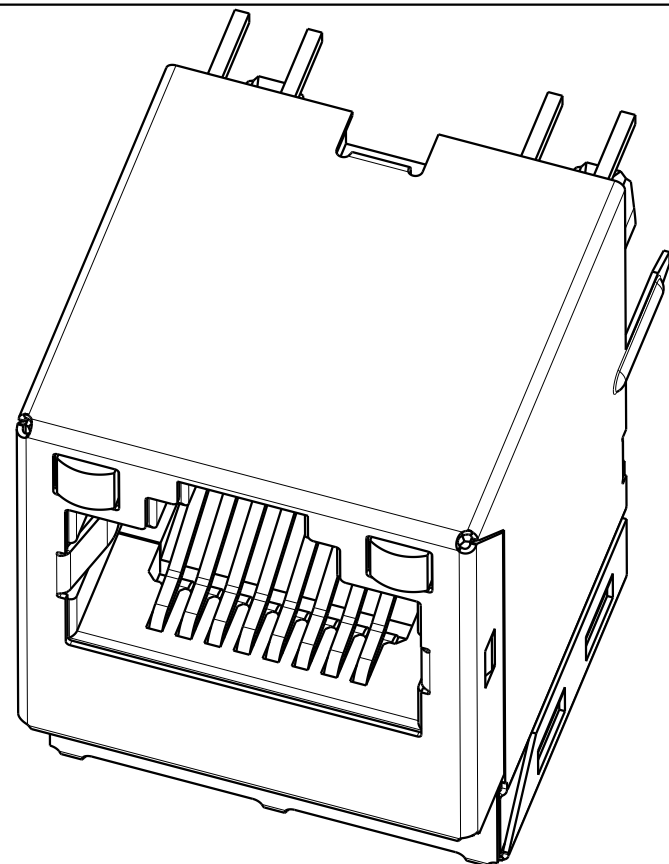


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:  
5736910 5939955 6425781 6428361 6554638 6840817 7123117  
7429195 7717749 7808751 6217391 6149050 7924130

| REVISIONS |     |                         |           |     |      |
|-----------|-----|-------------------------|-----------|-----|------|
| P         | LTR | DESCRIPTION             | DATE      | DWN | APVD |
|           | G   | EC-1411035, LOGO CHANGE | 22DEC2014 | JC  | TY   |



## 1. MATERIALS

HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATED UL 94V-0

SHIELD: BRASS, 0.20mm THICK,  
PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL  
POST DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.

CONTACTS: PHOSPHOR BRONZE, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE, SELECTIVE 1.27um MIN GOLD AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS. OR 1.27um MIN NICKEL UNDERPLATE, WITH 0.05um GOLD PLATING OVER 0.76um MIN PALLADIUM NICKEL PLATING AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.

SOLDER TAIL: PHOSPHOR BRONZE,  
WITH 1.27 $\mu$ m MIN OVERALL NICKEL UNDERPLATE AND  
PLATED WITH 2.54 $\mu$ m MIN TIN

LED: DIFFUSED EPOXY LENS, 0.50mm SQUARE CARBON STEEL WIREFRAME LEADS  
PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL  
OVER 1.02um MIN COPPER UNDERPLATE POST PLATED WITH 2.54um MIN TIN

2 MAGNETICS

-APPLICATION: 10/100 BASE-T

- IMPEDANCE: 100 OHMS

- TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1

-OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mA DC BIAS FROM 0°C TO 70°C, TX AND RX

- PERFORMANCE @ 25°C:

INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz

RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz

18-20LOG(f/30)dB MIN FROM 30.1

12dB MIN FROM 60.1MHz TO 80MHz

CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz  
33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz

COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz

- ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 23.5.1.1, ITEM b.

3 THE MAGNETIC ARE SYMMETRICAL AND SUPPORT AUTO-MDIX OPERATION.

4. OPERATING TEMPERATURE: 0 - 70°C

5. LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.

DOMINANT WAVELENGTH( $\lambda_D$ )

GREEN 568nm TYP. at IF=20mA

YELLOW 588nm TYP. at IF=20mA

FORWARD VOLTAGE {VF}:

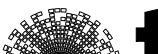
GREEN 2.2V TYP. at  $I_F = 20\text{mA}$

YELLOW 2.1V TYP. at IF=20mA

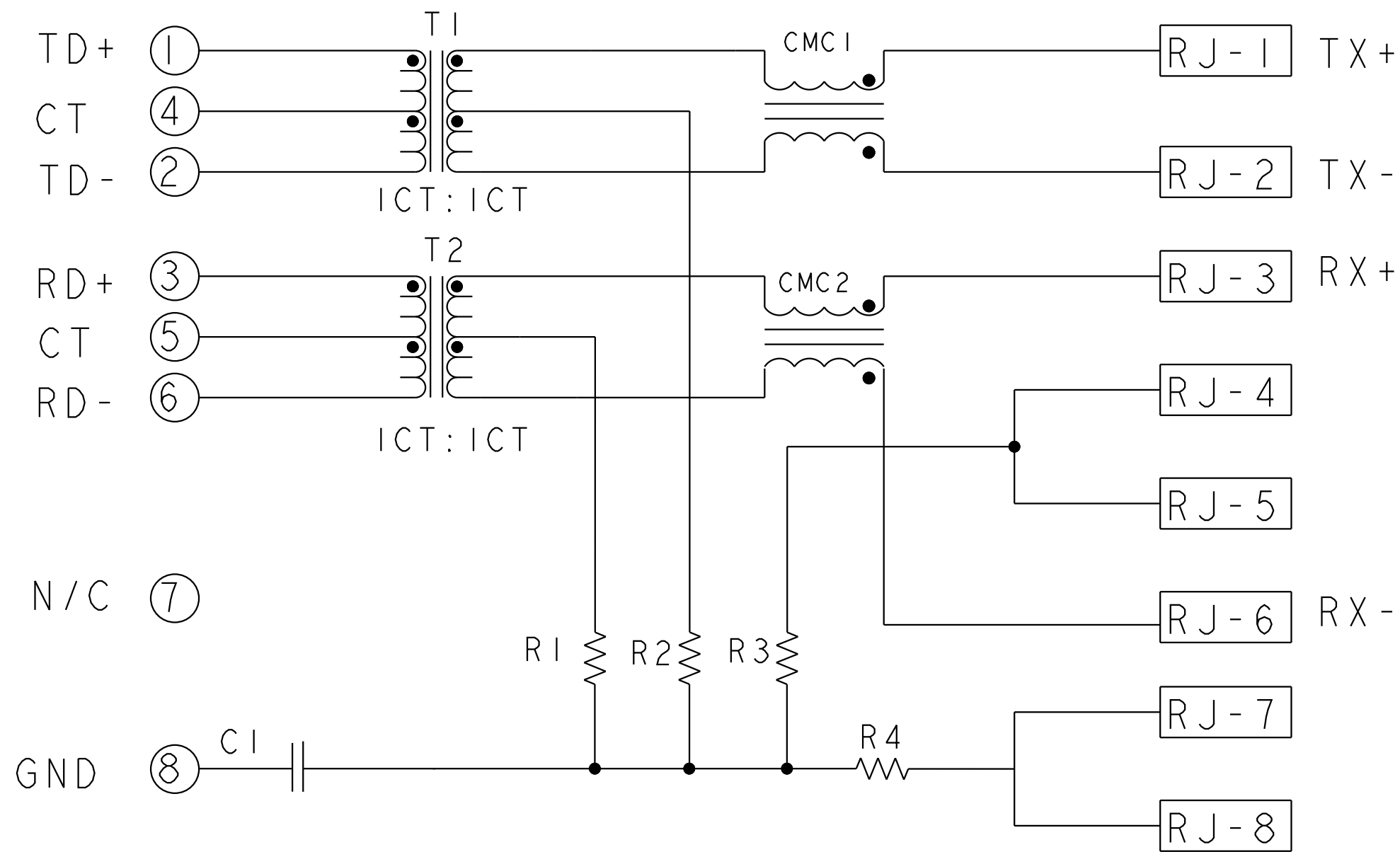
6. ALL DIMENSIONS TO BE NOMINAL UNLESS OTHERWISE NOTED

7. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

|         |         |         |             |
|---------|---------|---------|-------------|
| YES     | YELLOW  | GREEN   | 1-1840419-3 |
| NO      | GRN/YEL | GRN/YEL | 1840419-4   |
| NO      | YELLOW  | GREEN   | 1840419-3   |
| NO      | GREEN   | YELLOW  | 1840419-2   |
| NO      | GREEN   | GREEN   | 1840419-1   |
| CUT OUT | LED 1   | LED 2   | PART NUMBER |

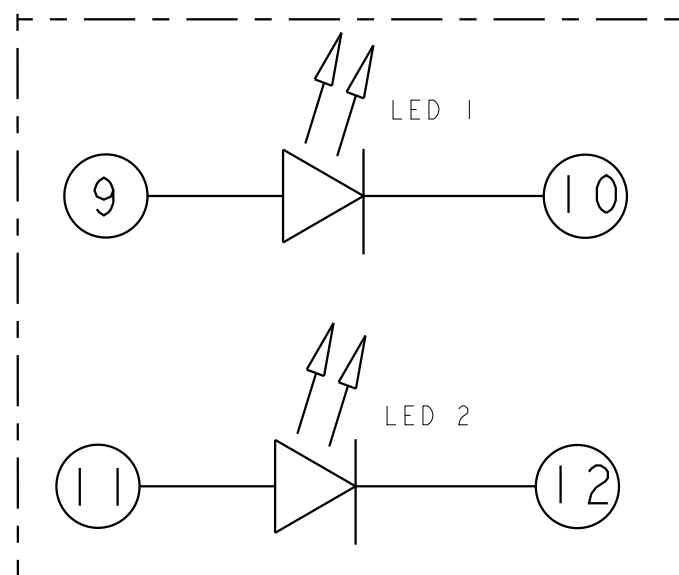
|                                                                                                            |  |                                                                                                                                               |  |                                                                                                                           |            |                         |                    |
|------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                                     |  | DWN<br>TOMMY REN 18AUG2006<br>CHK<br>KEITH ZHU 18AUG2006<br>APVD<br>TEDDY XIONG 18AUG2006<br>MODEL NAME<br>MAGJACK                            |  |  <b>trp</b> CONNECTOR<br>a bel group |            | DONGGUAN CHINA          |                    |
| DIMENSIONS:<br>mm<br> |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0 PLC ±0.25<br>1 PLC ±0.25<br>2 PLC ±0.25<br>3 PLC ±0.25<br>4 PLC ±<br>ANGLES ±<br>APPLICATION SPEC |  | DESC<br>1X1,MAGJACK, VERTICAL<br>426P13, 10/100 CIRCUIT, W/ LEDS                                                          |            |                         |                    |
| PRODUCT SPEC<br>108-2100                                                                                   |  | SINGLE NON-POE                                                                                                                                |  | SIZE<br>A2                                                                                                                | CAGE CODE  | DRAWING NO<br>C=1840419 | RESTRICTED TO<br>- |
| CUSTOMER DRAWING                                                                                           |  |                                                                                                                                               |  | SCALE<br>4                                                                                                                | SHEET<br>1 | OF<br>2                 | REV<br>G           |

# 426P13 10/100 BASE-T CIRCUIT<sup>△2</sup><sub>3</sub>

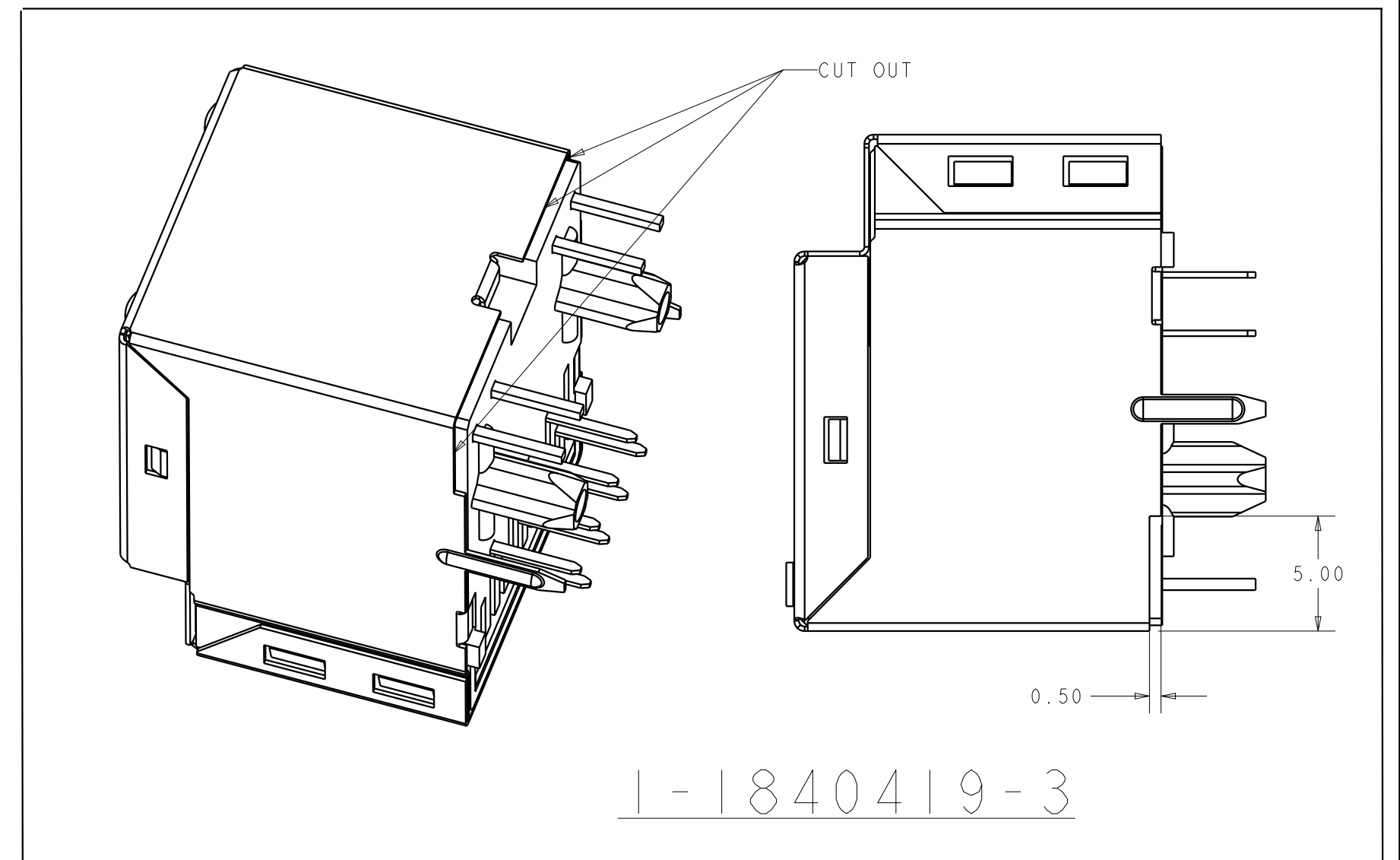
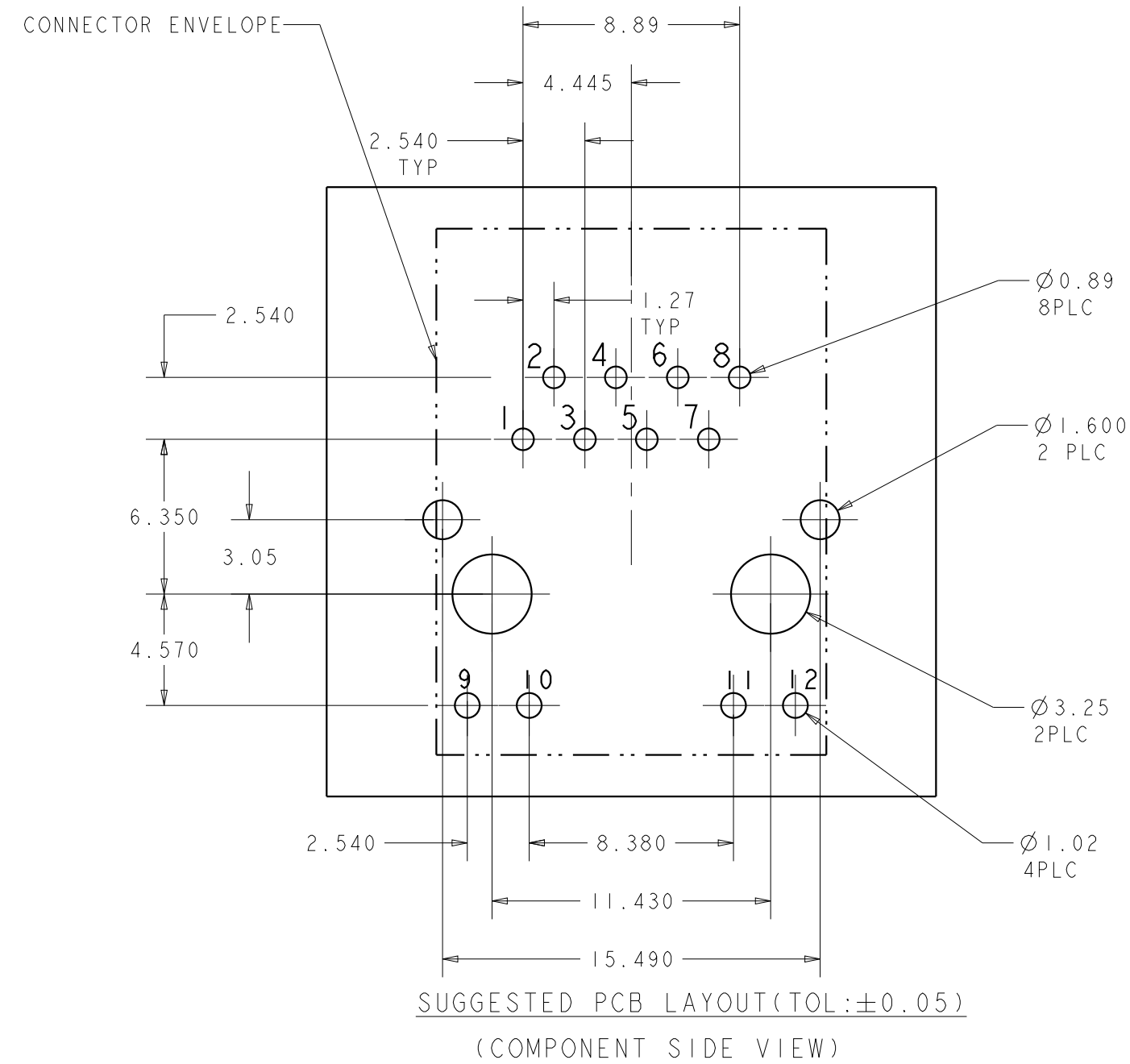
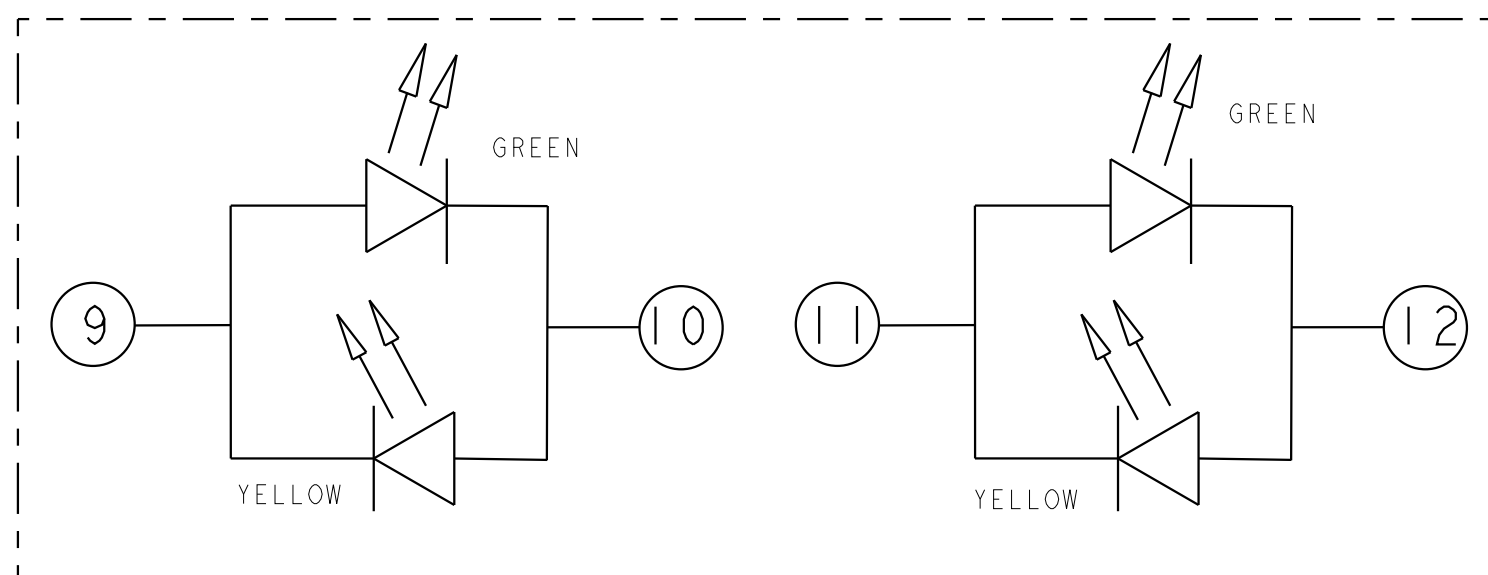


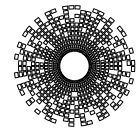
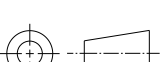
C1 = 1000pF, 2KV, CAPACITOR  
R1 - R4 = 75 ohms, RESISTOR

SINGLE COLOR LED



BI-COLOR LED



|                                                                                       |  |                                                                                                                                    |                                                                                                                 |  |                   |           |                         |                    |          |
|---------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|-------------------|-----------|-------------------------|--------------------|----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>TOMMY REN<br>18AUG2006                                                                                                      |  <b>trp</b><br>a bel group |  | DONGGUAN<br>CHINA |           |                         |                    |          |
| DIMENSIONS:                                                                           |  | CHK<br>KEITH ZHU<br>18AUG2006                                                                                                      |                                                                                                                 |  |                   |           |                         |                    |          |
| mm                                                                                    |  | APVD<br>TEDDY XIONG<br>18AUG2006                                                                                                   |                                                                                                                 |  |                   |           |                         |                    |          |
|  |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br><br>0 PLC ±0.25<br>1 PLC ±0.25<br>2 PLC ±0.25<br>3 PLC ±0.25<br>4 PLC ±-<br>ANGLES ±- | DESC<br>1X1, MAGJACK, VERTICAL<br>426PI3, 10/100 CIRCUIT, W/ LEDS                                               |  |                   |           |                         |                    |          |
| PRODUCT SPEC                                                                          |  | APPLICATION SPEC                                                                                                                   | MAGJACK<br>SINGLE NON-POE                                                                                       |  | SIZE<br>A2        | CAGE CODE | DRAWING NO<br>C=1840419 | RESTRICTED TO<br>- |          |
| 108-2100                                                                              |  | -                                                                                                                                  | CUSTOMER DRAWING                                                                                                |  |                   |           | SCALE<br>4:1            | SHEET<br>2 OF 2    | REV<br>G |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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