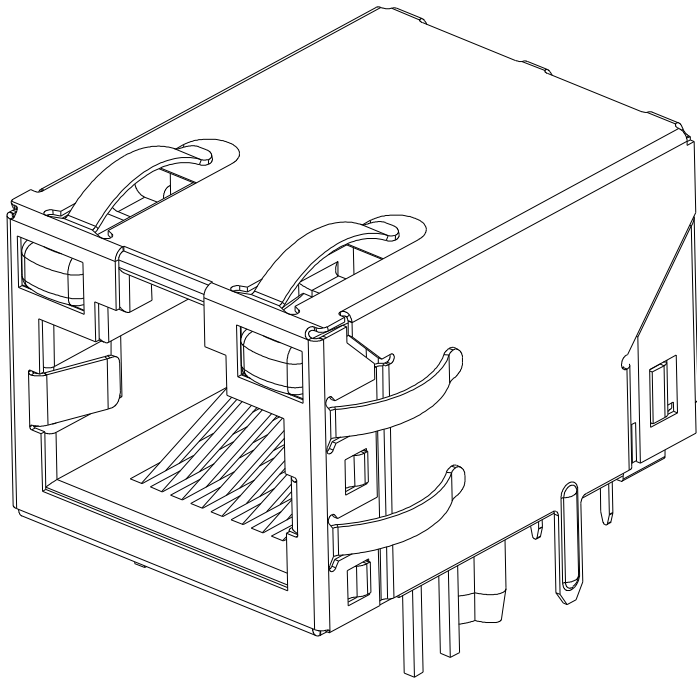
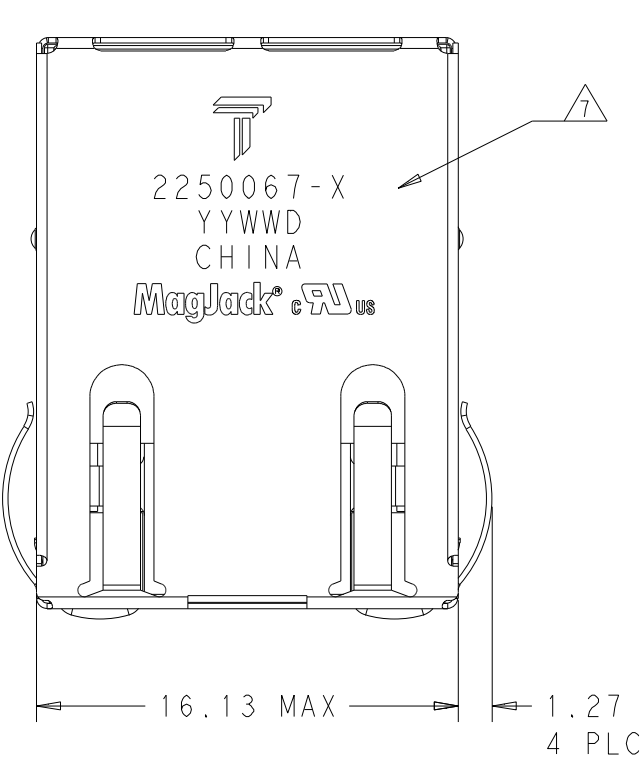




1. MATERIALS
- HOUSING: THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
  - SHIELD: BRASS 0.20mm THICK, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 2.54um MIN SAC SOLDER.
  - CONTACTS: PHOSPHOR BRONZE 0.46mm X 0.30mm, PHOSPHOR BRONZE, 1.27um MIN NICKEL UNDERPLATE, WITH 1.27um MIN GOLD PLATING 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 TAILS: 0.25mmTHICK, PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE, 3um TIN PLATE
  - LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 0.5mm X 0.5mm CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03um MIN. SILVER PLATE OVER 1.02um MIN. NICKEL OVER 1.02um MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05um MIN. MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

△ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUB PART F.

- △ 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, 8mADC 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 30.1MHz TO 60MHz
    - 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: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500 V/SEC

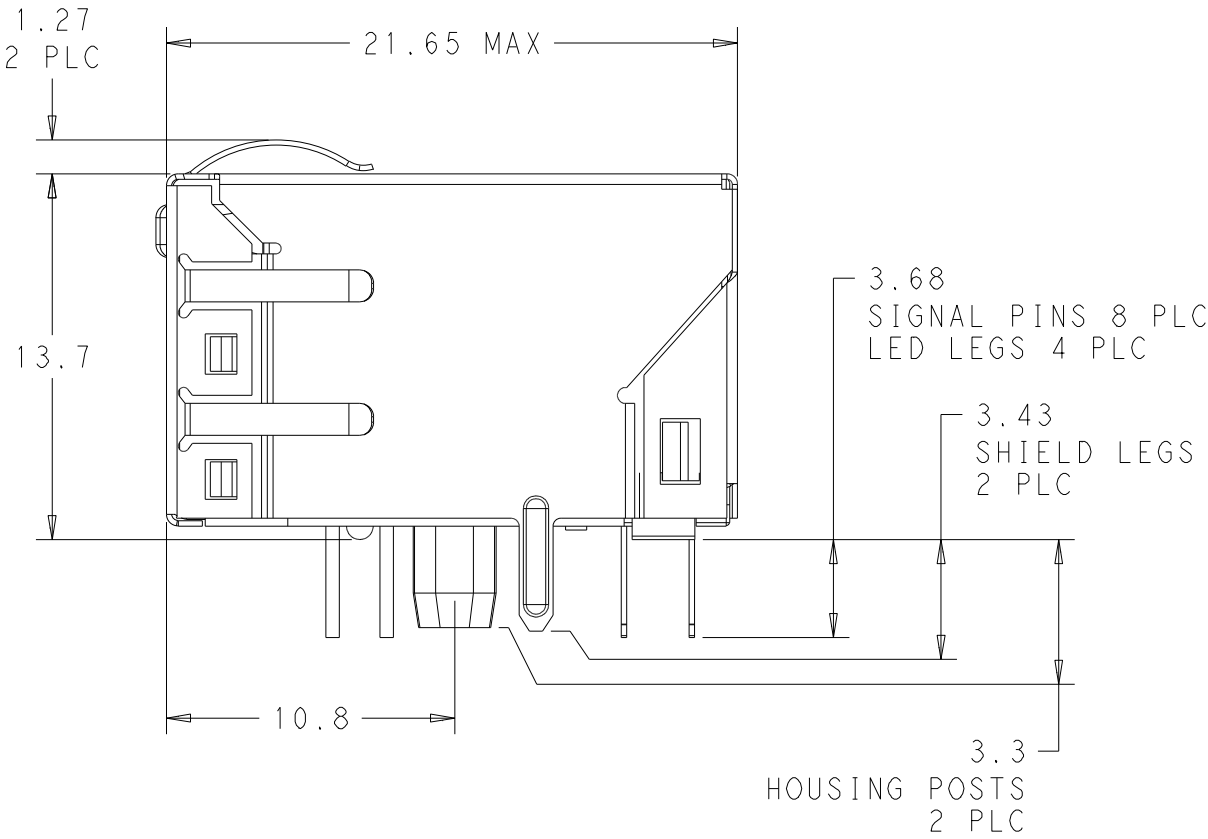
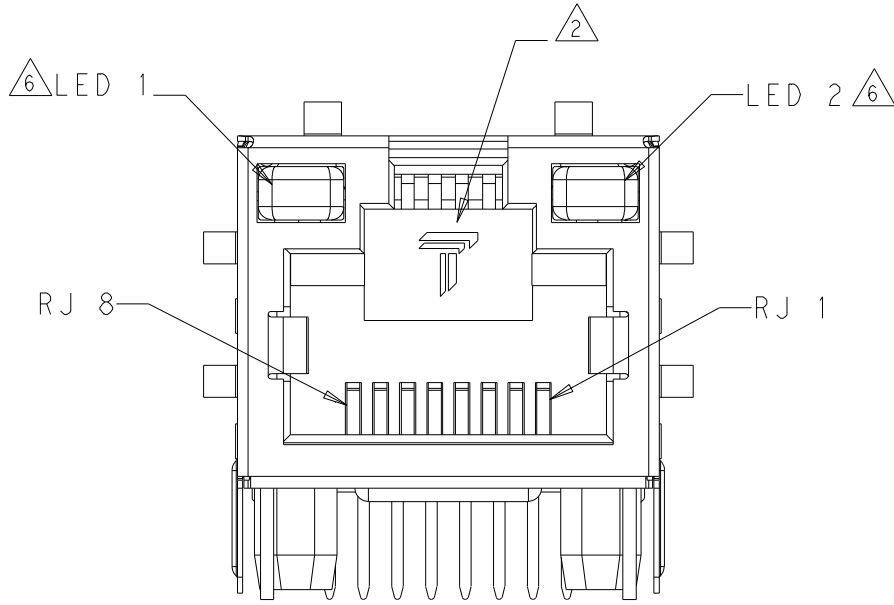
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

△ INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.

- △ THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF RESISTORS.
- IF LEDS WITHOUT 250 OHM RESISTORS. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
- LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. AT IF = 20mA  
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF = 20mA  
DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF = 20mA  
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF = 20mA
- IF LEDS WITH BUIL-IN 250 OHM RESISTORS. LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA
- LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. @ VF=5V  
FORWARD CURRENT (IF): GREEN 12mA TYP @ VF = 5V  
DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V  
FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF = 5V

△ TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN. DATE CODE: YYWWD WHERE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1.

8. PART SHOULD BE RECOMMENDED FOR WAVE SOLDERING PROCESS,PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.



|                  |                  |                                                                                          |                                                                                          |                                                                                                          |                                                                                             |                                                                                                            |             |
|------------------|------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------|
| NO               | YES              | GREEN                                                                                    | -                                                                                        | YES                                                                                                      | YELLOW                                                                                      | YES                                                                                                        | 2250067-8   |
| YES              | YES              | GREEN                                                                                    | YELLOW                                                                                   | NO                                                                                                       | GREEN                                                                                       | NO                                                                                                         | 2250067-7   |
| YES              | NO               | GREEN                                                                                    | -                                                                                        | YES                                                                                                      | YELLOW                                                                                      | YES                                                                                                        | 2250067-6   |
| YES              | YES              | GREEN                                                                                    | -                                                                                        | YES                                                                                                      | GREEN                                                                                       | YES                                                                                                        | 2250067-5   |
| YES              | YES              | GREEN                                                                                    | -                                                                                        | NO                                                                                                       | YELLOW                                                                                      | NO                                                                                                         | 2250067-4   |
| YES              | YES              | GREEN                                                                                    | -                                                                                        | NO                                                                                                       | GREEN                                                                                       | NO                                                                                                         | 2250067-3   |
| YES              | YES              | YELLOW                                                                                   | -                                                                                        | YES                                                                                                      | GREEN                                                                                       | YES                                                                                                        | 2250067-2   |
| YES              | YES              | GREEN                                                                                    | -                                                                                        | YES                                                                                                      | YELLOW                                                                                      | YES                                                                                                        | 2250067-1   |
| 2kV<br>CAPACITOR | EMI<br>FINGERS ① | 9  10 | 10  9 | 250 OHMS<br>RESISTOR  | 11  12 | 250 OHMS<br>RESISTOR  | PART NUMBER |
|                  |                  | LED 1                                                                                    |                                                                                          |                                                                                                          | LED 2                                                                                       |                                                                                                            |             |

OWN ROY LIU 17DEC2013

CHK TOWER YU/ FRANK LIU 17DEC2013

APVD TONY YUAN 17DEC2013

MODEL NAME

MAGJACK

SINGLE NON-POE

CUSTOMER DRAWING

trp CONNECTOR

a bel group

DONGGUAN CHINA

DESC

IXI 726 10/100 TAB UP W/ LED

SIZE

A1

CAGE CODE

DRAWING NO

©=2250067

RESTRICTED TO

-

SCALE

4:1

SHEET

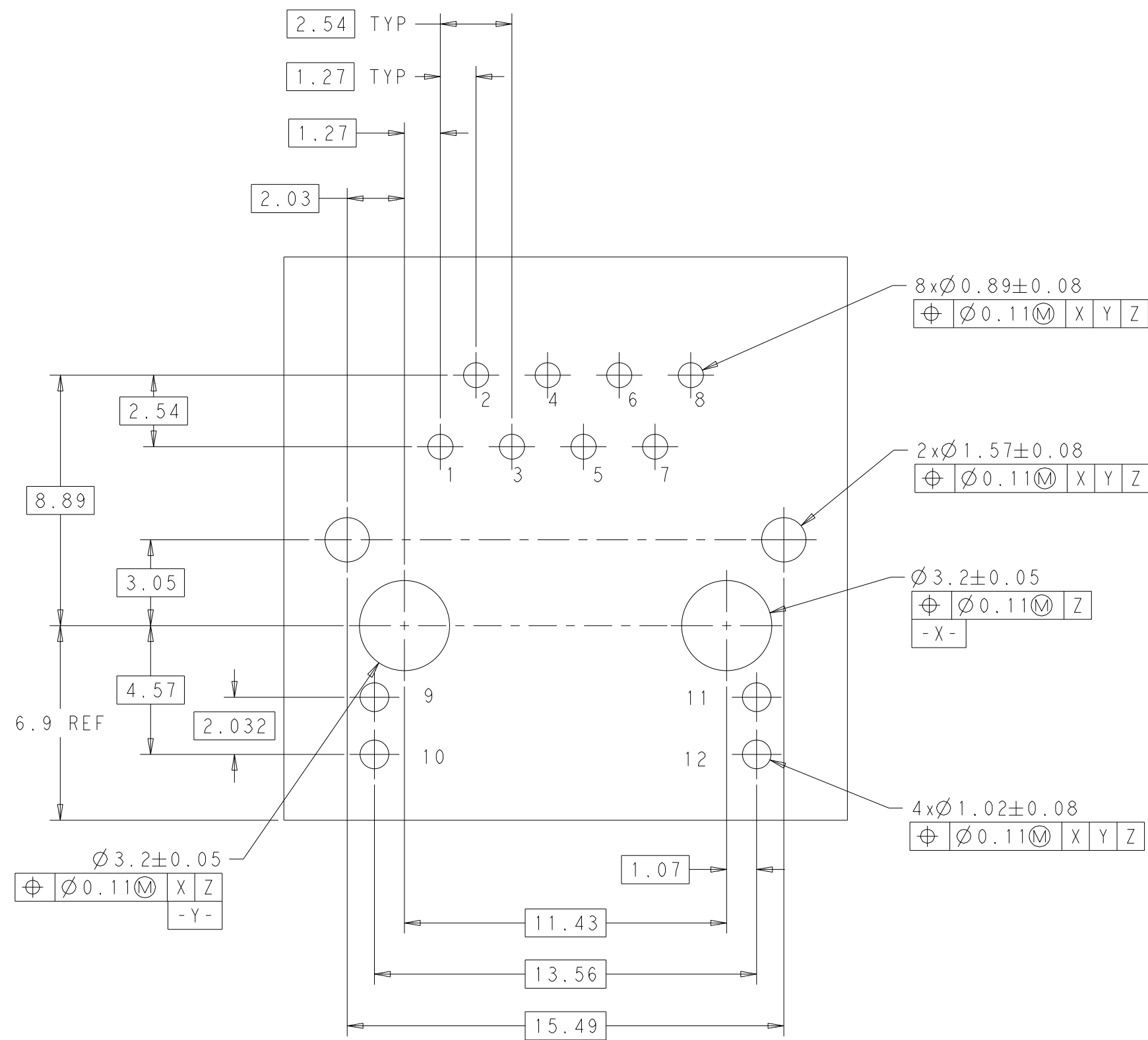
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OF

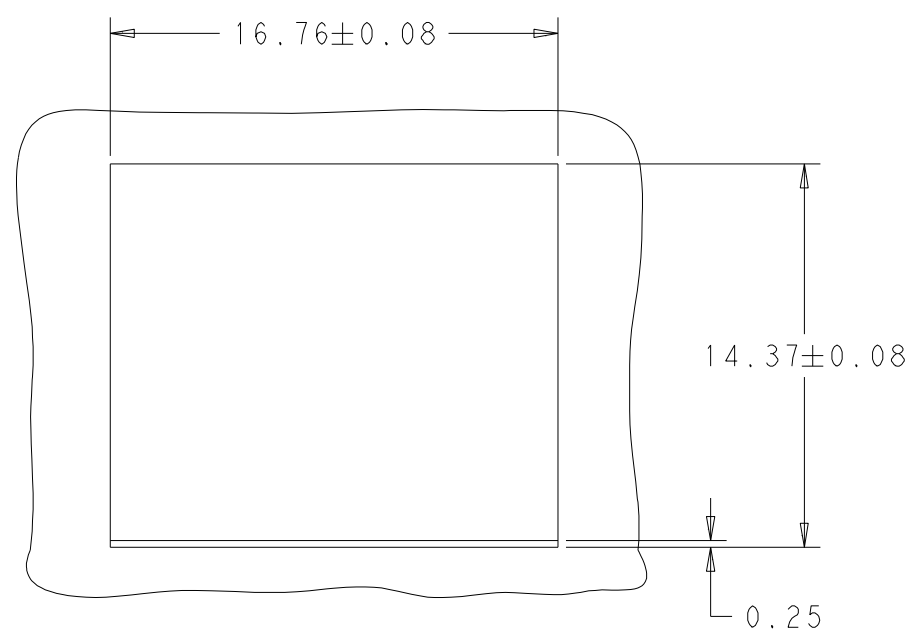
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REV

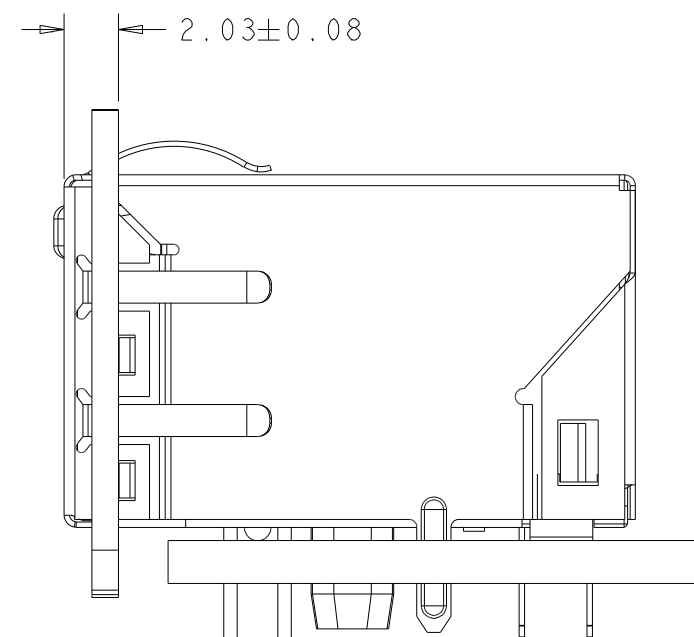
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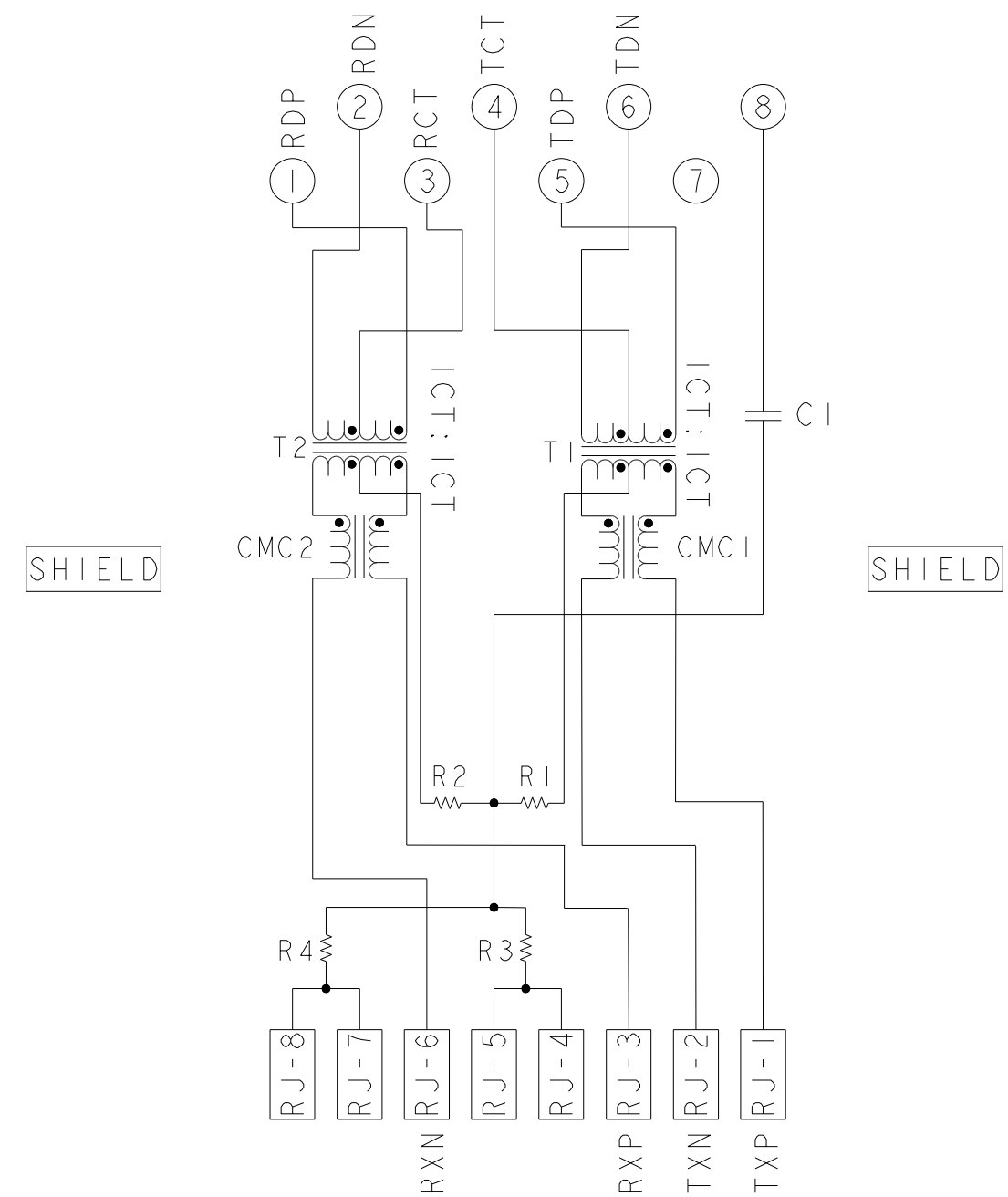
SUGGESTED PCB LAYOUT



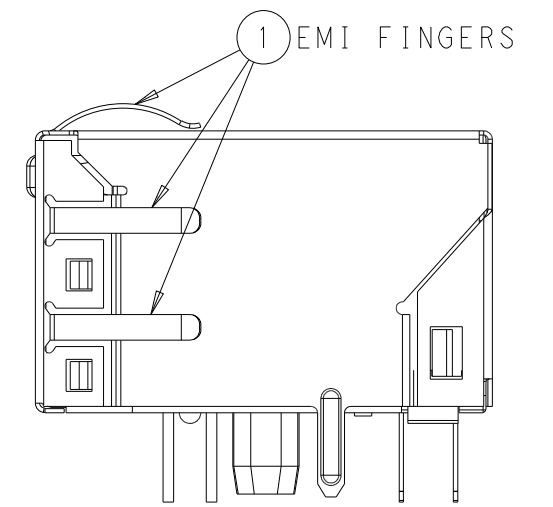
SUGGESTED PANEL CUTOUT



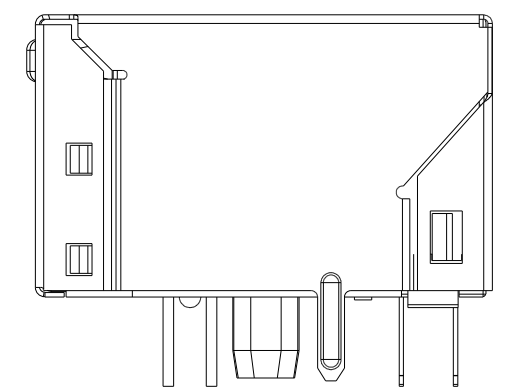
## 726 10/100 CIRCUIT $\triangle 3 \triangle 5$



CI=1000pF, 2kV CAPACITOR  
R1-R4 = 75 Ohms, 1/16 W RESISTORS



FOR 2250067-1, 2250067-2  
2250067-3, 2250067-4  
2250067-5, 2250067-7



FOR 2250067-6

|                                                                                  |  |                                         |                                                                                                                           |                   |                                      |
|----------------------------------------------------------------------------------|--|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                           |  | OWN<br>ROY LIU<br>17DEC2013             |  <b>trp</b> CONNECTOR<br>a bel group | DONGGUAN<br>CHINA |                                      |
| DIMENSIONS:<br>mm                                                                |  | CHK<br>TOWER YU/ FRANK LIU<br>17DEC2013 |                                                                                                                           |                   |                                      |
| TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                        |  | APPROV<br>TONY YUAN<br>17DEC2013        | MODEL NAME                                                                                                                |                   | DESC<br>IX1 726 10/100 TAB UP W/ LED |
| 0 PLC ±0.25<br>1 PLC ±0.25<br>2 PLC ±0.25<br>3 PLC ±0.25<br>4 PLC ±<br>ANGLES ±° |  | MAGJACK                                 |                                                                                                                           | SIZE<br>A1        | CAGE CODE<br>DRAWING NO<br>C=2250067 |
| PRODUCT SPEC                                                                     |  | SINGLE NON-POE                          |                                                                                                                           | RESTRICTED TO     | REV<br>2                             |
| CUSTOMER DRAWING                                                                 |  | SCALE<br>4:1                            |                                                                                                                           | SHEET<br>2 OF 3   | REV<br>2                             |

D

D

| C_2250067        |     |                                |                 |           | STOCK DISPOSITION                          |                                 |                                                     |                                |
|------------------|-----|--------------------------------|-----------------|-----------|--------------------------------------------|---------------------------------|-----------------------------------------------------|--------------------------------|
|                  |     |                                |                 |           | A: CONTINUE AS IS<br>B: REWORK<br>C: SCRAP |                                 | D: USE OLD FIRST<br>E: PARTS TO CONFORM<br>F: OTHER |                                |
| REVISION HISTORY |     |                                |                 |           |                                            |                                 |                                                     |                                |
| DATE             | REV | CHANGES                        | REASON          | APPROVAL  | INVENTORY<br>(A,B,C,D,E,F)                 | WORK<br>IN PROCESS<br>(A,B,C,F) | SUPPLIER<br>ORDERS<br>(A,E,F)                       | OPEN CUST<br>ORDERS<br>(A,E,F) |
| 17DEC2013        | 1   | -                              | INITIAL RELEASE | TONY YUAN | -                                          | -                               | -                                                   | -                              |
| 04JAN2015        | 2   | EC-1411035 COMPANY LOGO CHANGE | MARKET REQUEST  | TONY YUAN | -                                          | -                               | -                                                   | -                              |

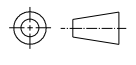
A

A

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THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm



PRODUCT SPEC  
-

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
0 PLC ±0.25  
1 PLC ±0.25  
2 PLC ±0.25  
3 PLC ±0.25  
4 PLC ±  
ANGLES ±°  
APPLICATION SPEC -

OWN ROY LIU 17DEC2013  
CHK TOWER YU/ FRANK LIU 17DEC2013  
APVD TONY YUAN 17DEC2013

MODEL NAME  
MAGJACK  
SINGLE NON-POE  
CUSTOMER DRAWING

 **trp** CONNECTOR  
a bel group

DESC  
IX1 726 10/100 TAB UP W/ LED  
-

SIZE A1  
CAGE CODE  
DRAWING NO. C=2250067  
RESTRICTED TO -

SCALE 4:1  
SHEET 3 OF 3  
REV 2

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Bel:](#)

[2250067-2](#) [2250067-1](#) [2250067-4](#)