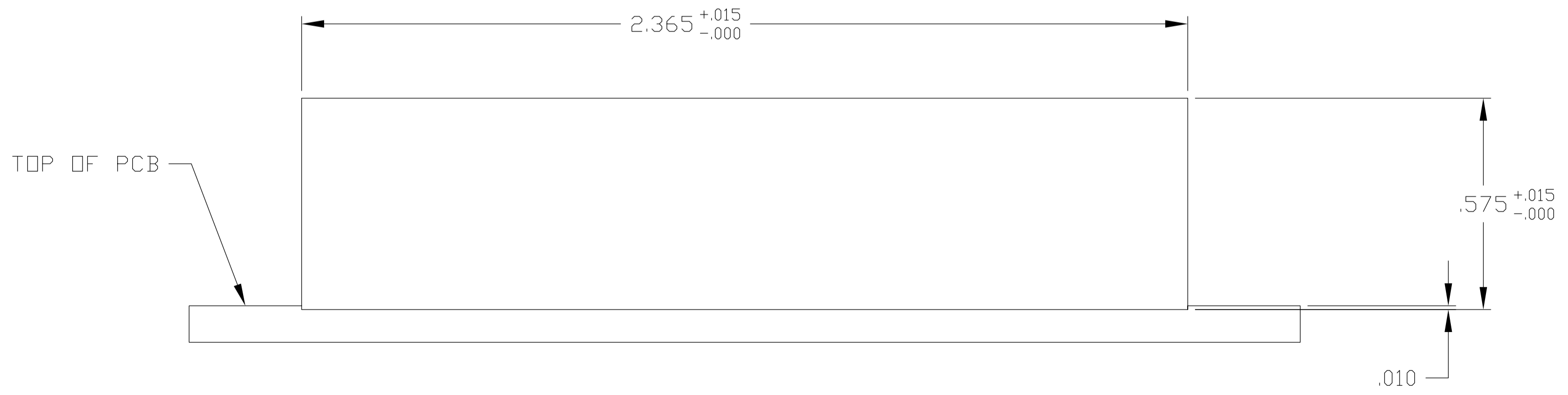
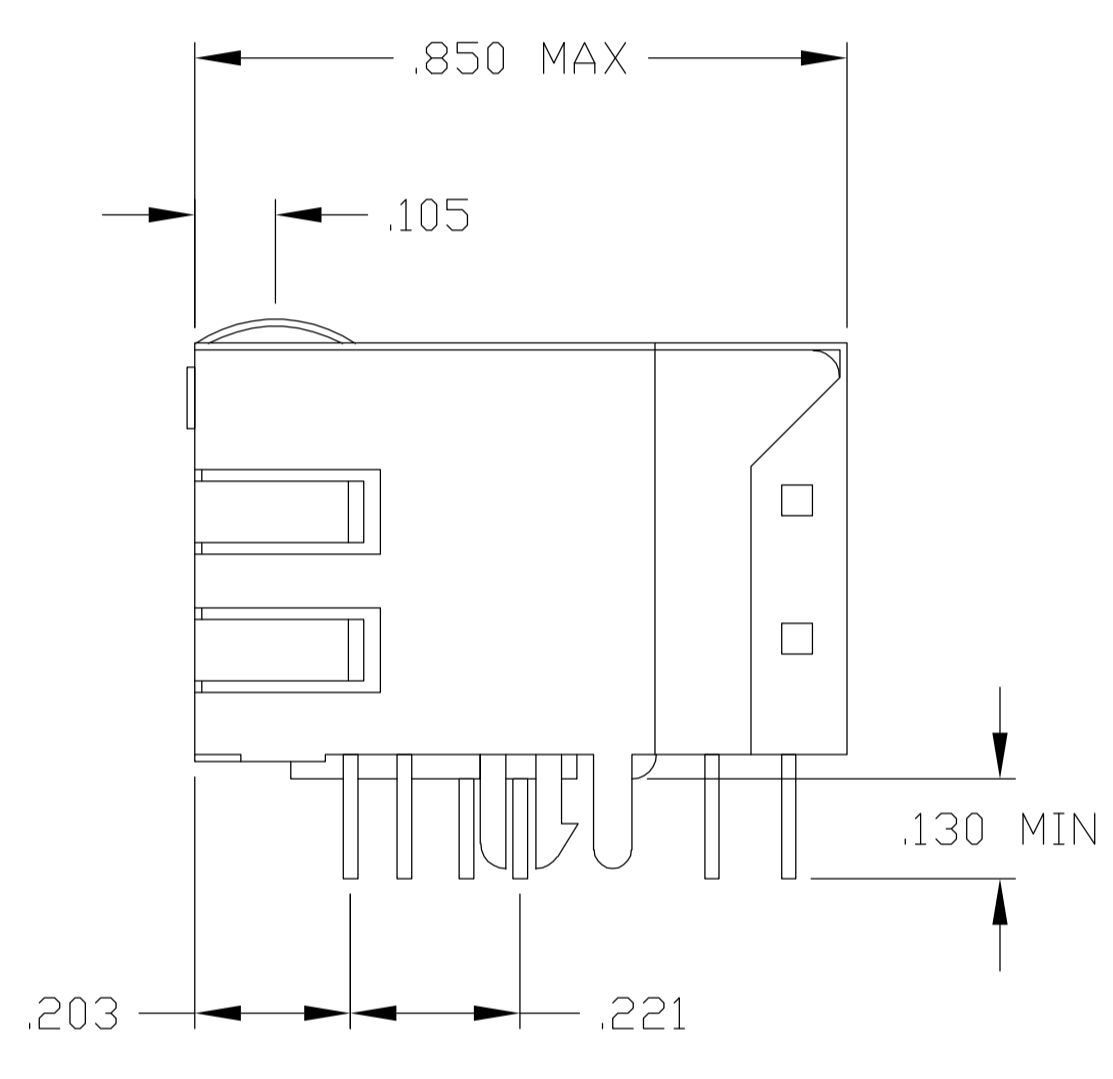
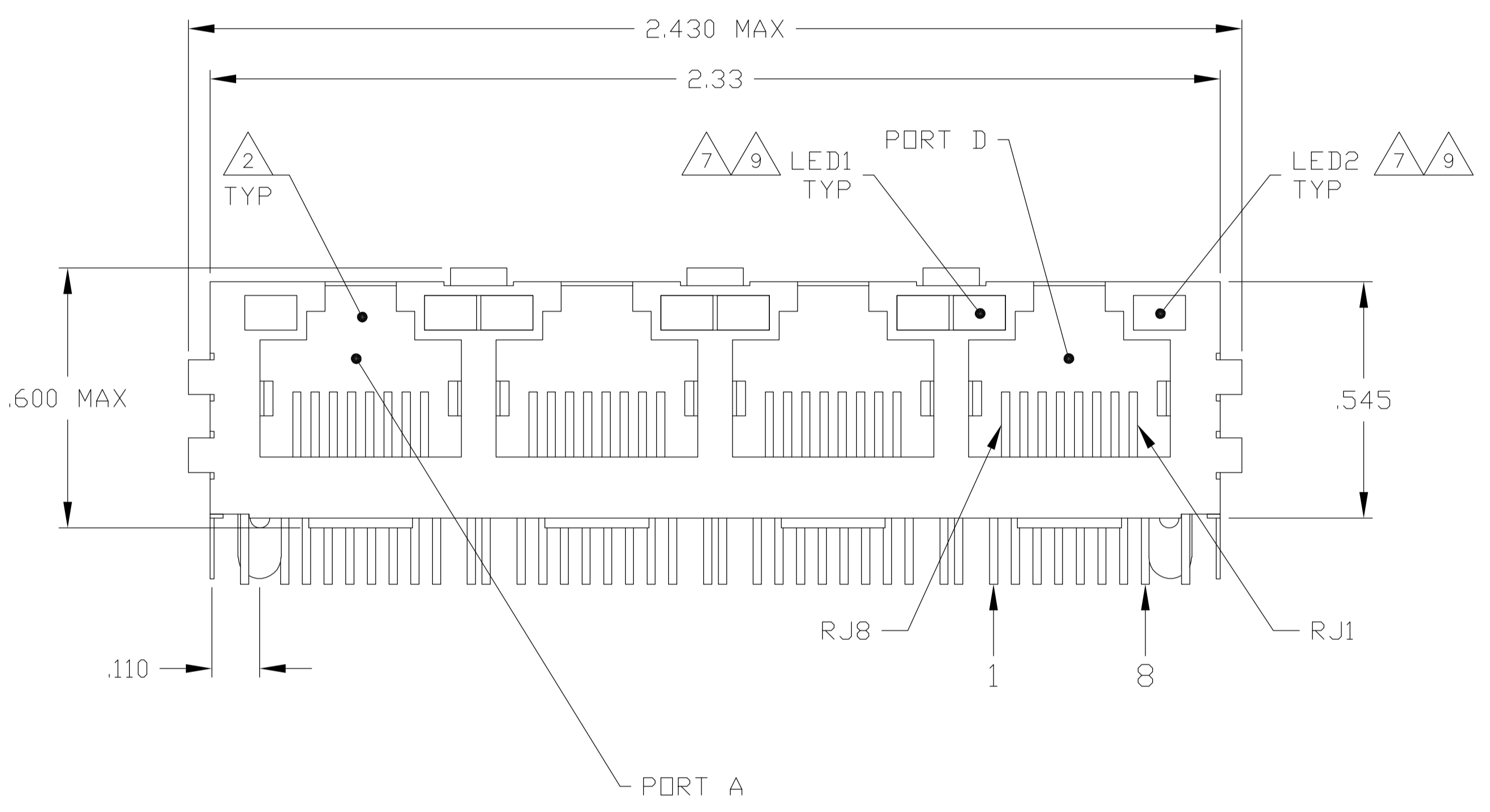
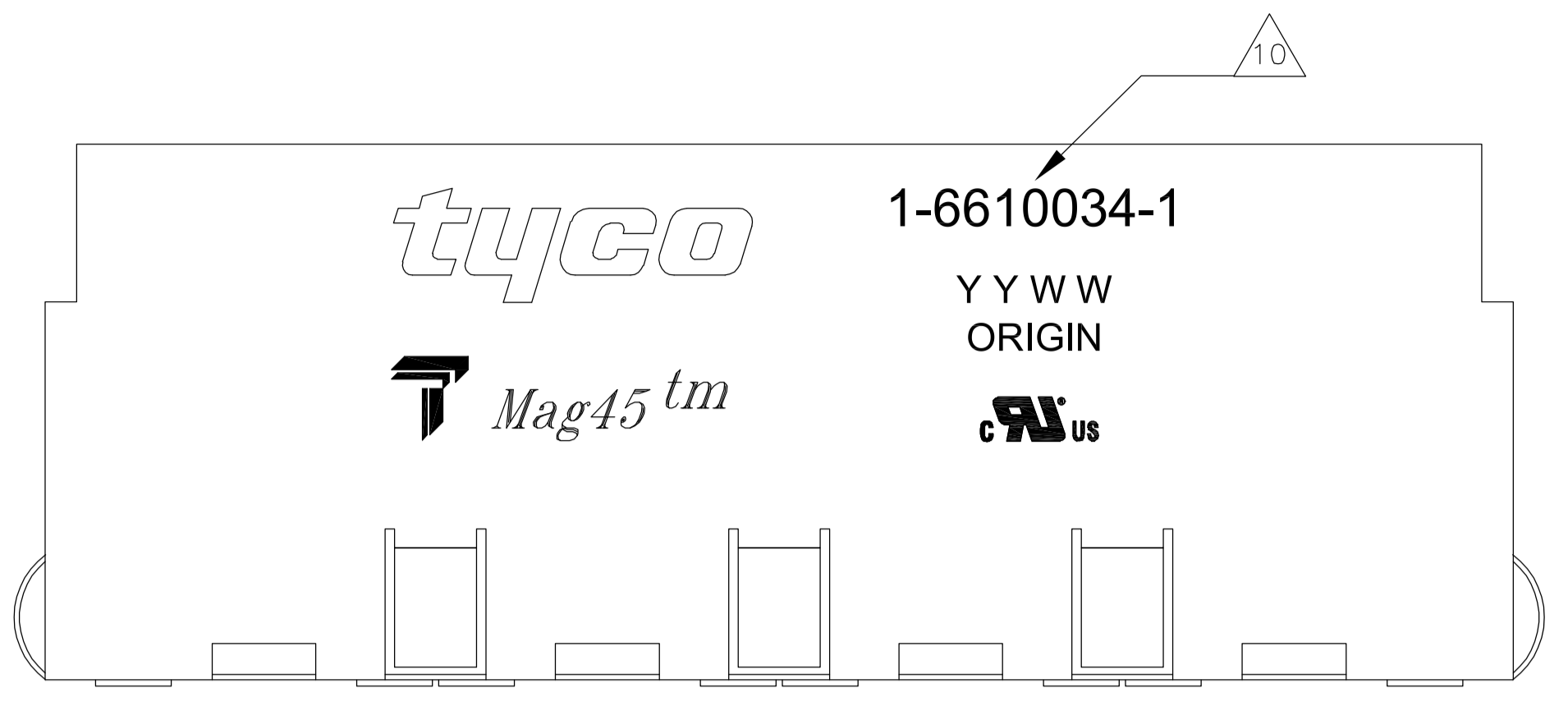


MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

- ⚠ MATERIALS:
  - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
  - SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
  - MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
  - LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" X .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μINCH 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
  - IMPEDANCE: 100 OHMS
  - TURNS RATIO (CHIP CABLE): TX = 1:1, RX = 1:1
  - OPEN CIRCUIT INDUCTANCE (OCL): 350μH 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: COMPLIES WITH IEEE802.3 2002, PARA 23.5.1.1, ITEM a or b.
- ⚠ C1 IS AN OPTIONAL 1000 pF, 2KV DECOUPLING CAPACITOR. IF NO CAPACITOR, TRACE IS CONTINUOUS. SEE TABLE FOR PRESENCE OF CAPACITOR IN DIFFERENT CONFIGURATIONS.
- 5. OPERATING TEMPERATURE: FROM 0° TO +70°C.
- ⚠ R1-R4 = 75 OHMS, 1/16 W, 5% RESISTORS.
- ⚠ LED COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 20 mA. THE 250 OHM RESISTORS ARE INCLUDED ON 6605704-1 ONLY.
- ⚠ INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.
- ⚠ LED PEAK WAVELENGTH: GREEN(λ) = 565nm  
YELLOW(λ) = 585nm
- ⚠ TRADEMARK, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

|                        |        |        |             |
|------------------------|--------|--------|-------------|
| YES                    | GREEN  | YELLOW | 5-6610034-1 |
| NO                     | GREEN  | GREEN  | 1-6610034-1 |
| DECOUPLING CAPACITOR ⚠ | LED1 ⚠ | LED2 ⚠ | PART NUMBER |

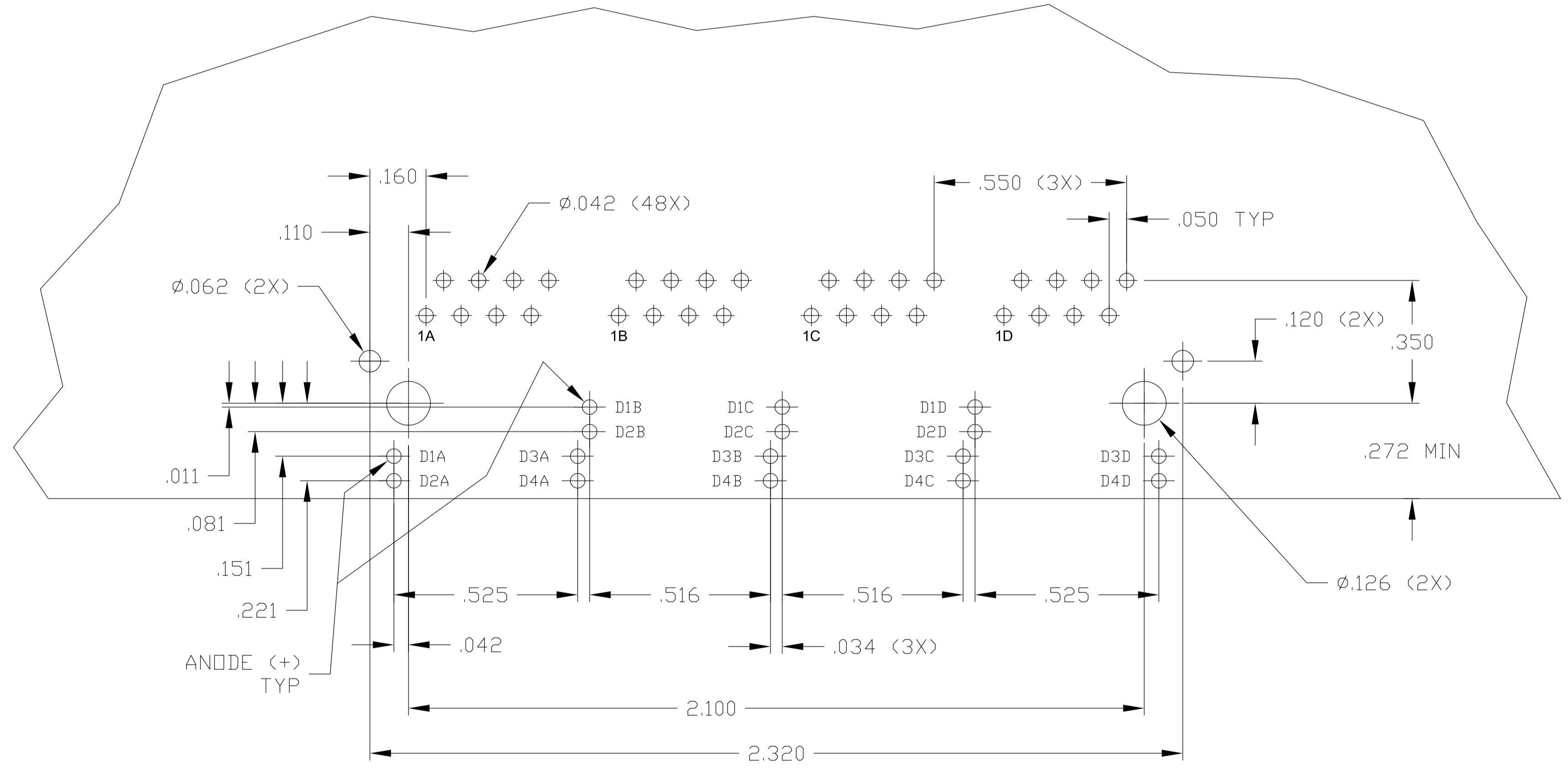
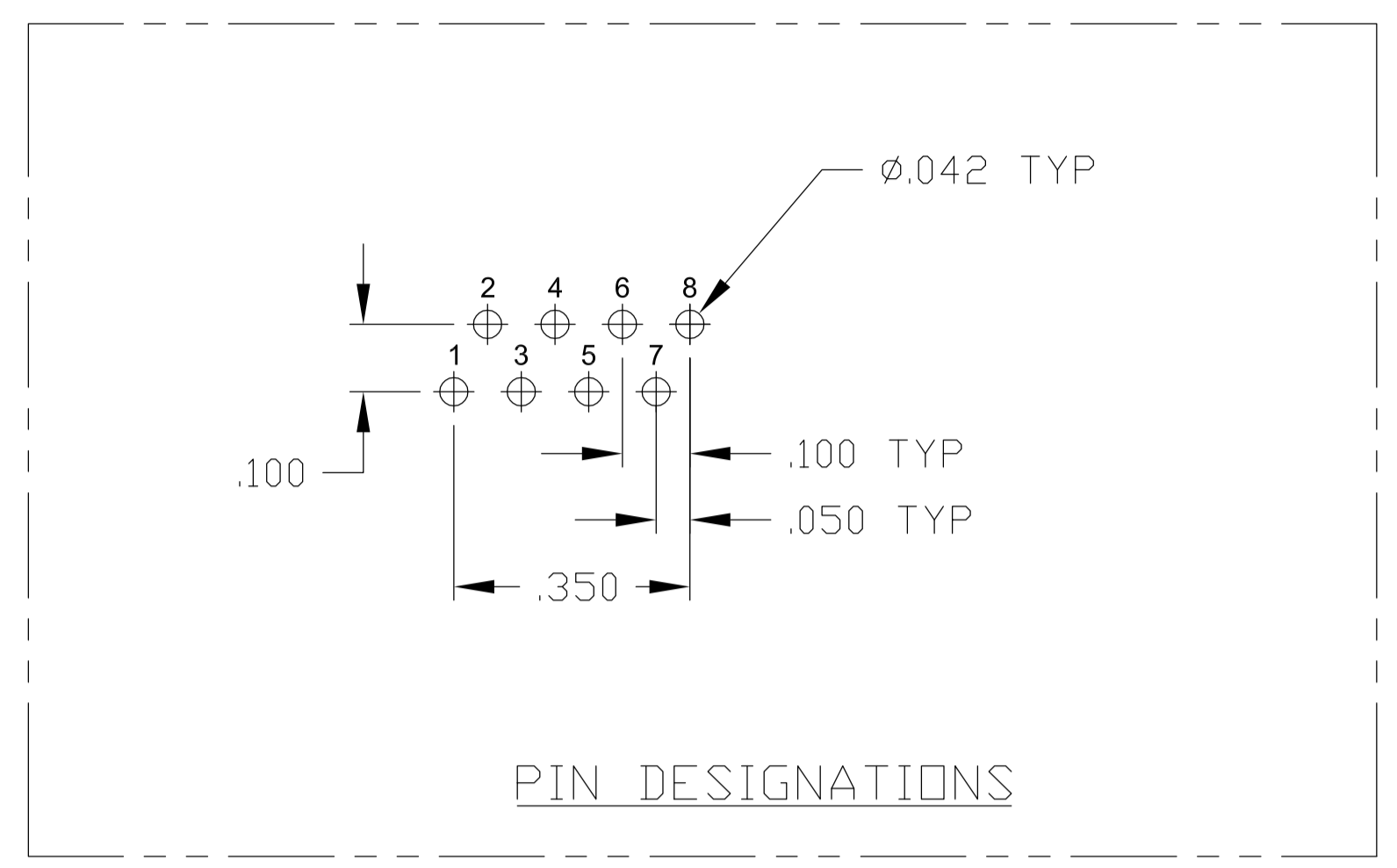
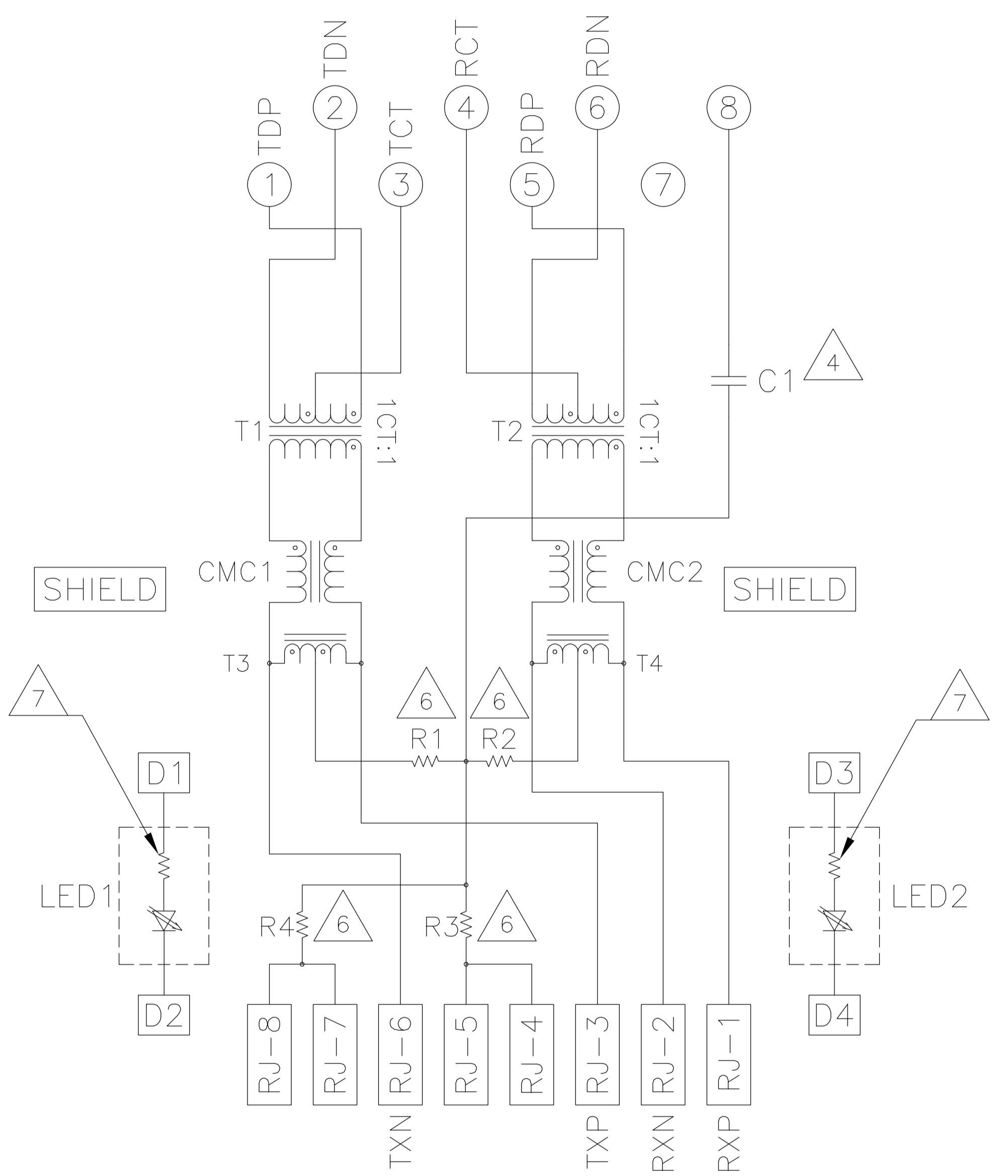
THIS DRAWING IS A CONTROLLED DOCUMENT.

|  |                       |   |
|--|-----------------------|---|
| DWN                                    | L. VARELA - 16MAR2005 | Tyco Electronics Corporation<br>Harrisburg, PA 17105-3608 |
| CHK                                    | D. FAROLE - 16MAR2005 |   |
| APVD                                   | D. FAROLE - 16MAR2005 | NAME  |
| DIMENSIONS: INCHES                     |                       | PRODUCT SPEC  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |                       | APPLICATION SPEC  |
| 0 PLC                                  | ± -                   | SIZE  |
| 1 PLC                                  | ± -                   | CAGE CODE   |
| 2 PLC                                  | ± .010                | DRAWING NO  |
| 3 PLC                                  | ± .005                | RESTRICTED TO   |
| 4 PLC                                  | ± -                   |   |
| ANGLES                                 | ± -                   |   |
| FINISH                                 | ± -                   |   |


1X4 MAG45(TM) MODULAR JACK, 7H2 SCHEMATIC, 75S SERIES CIRCUIT, SHIELDED, OPTIONAL DECOUPLING CAPACITOR, RESISTOR LEDS

SCALE 4:1 SHEET 1 OF 2 REV A

755 SERIES MAGNETIC CIRCUIT 



SUGGESTED PCB LAYOUT  
(Component Side)

|  |              |                              |   |
|--|--------------|------------------------------|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |              | DWN<br>L. VARELA - 16MAR2005 |  Tyco Electronics Corporation<br>Harrisburg, PA 17105-3608 |
| DIMENSIONS: INCHES                     |              | CHK<br>D. FAROLE 16MAR2005   |   |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |              | APRD<br>D. FAROLE 16MAR2005  | NAME<br>1X4 MAG45(TM) MODULAR JACK,<br>7H2 SCHEMATIC, 755 SERIES CIRCUIT, SHIELDED,<br>OPTIONAL DECOUPLING CAPACITOR, RESISTOR LEDS             |
| 0 PLC ± -                              | 1 PLC ± -    | PRODUCT SPEC<br>108-2100     | SIZE CAGE CODE DRAWING NO<br>A1 00779 6610034   |
| 2 PLC ± .010                           | 3 PLC ± .005 | APPLICATION SPEC             | RESTRICTED TO   |
| 4 PLC ± -                              | ANGLES ± -   | FINISH                       | WEIGHT  |
| MATERIAL                               |              | FINISH                       | SCALE 4:1 SHEET 2 OF 2 REV A  |
| CUSTOMER DRAWING                       |              |                              |   |