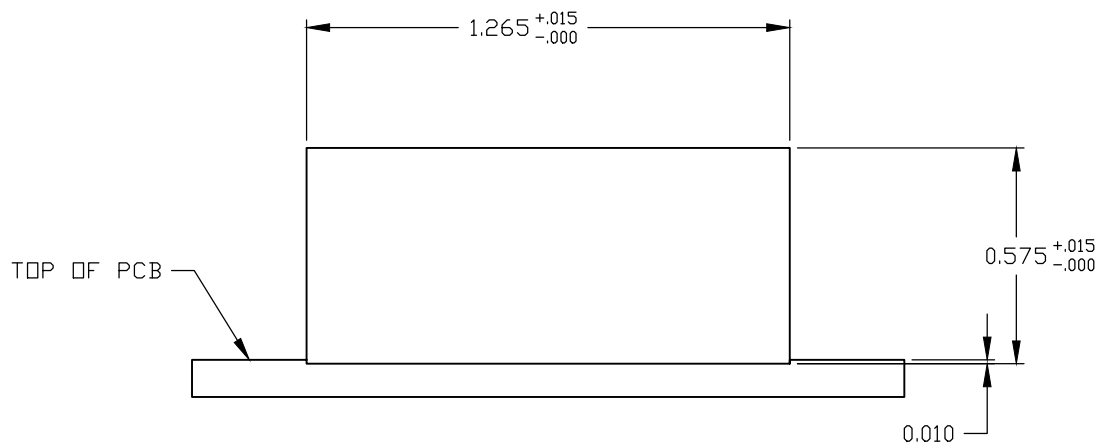
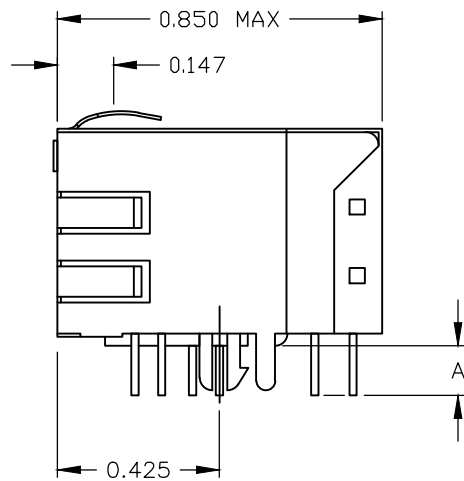
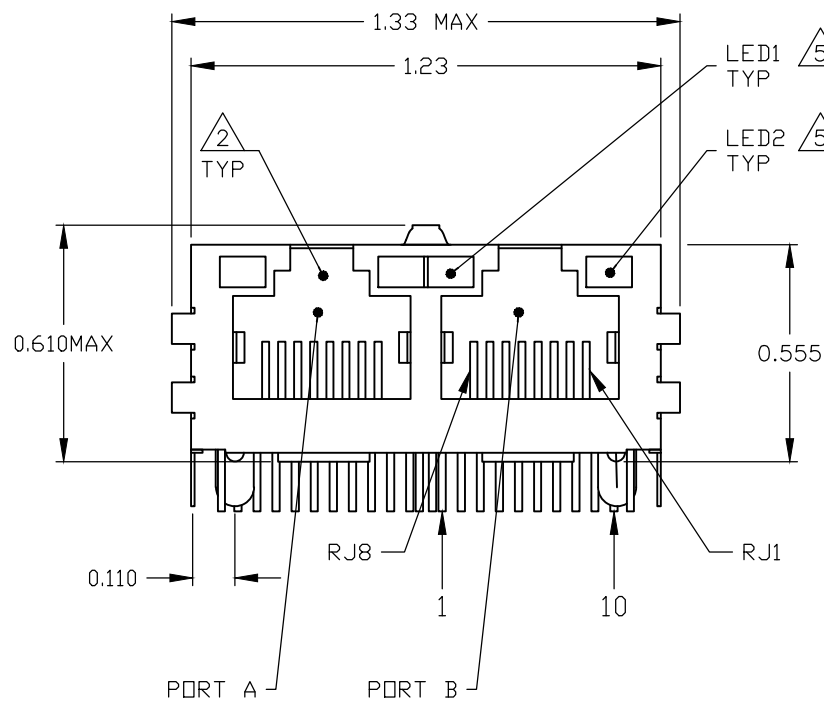
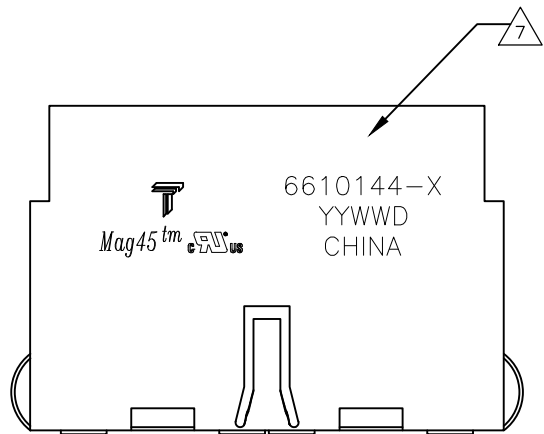


MECHANICAL:



1X2 SUGGESTED PANEL CUTOUT

- 1 MATERIALS:
- HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
  - SHIELD - 0.010" 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, 0.020" X 0.020" 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.

- 2 RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.

- 3 MAGNETICS
- IMPEDANCE: 100 OHMS
  - TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
  - OPEN CIRCUIT INDUCTANCE (OCL): 350μH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
  - ALL FOUR PAIRS BI-DIRECTIONAL
  - PERFORMANCE @ 25°C:
    - INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
    - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
    - 12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
    - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
    - 33-20xLOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
    - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
  - ISOLATION VOLTAGE: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.

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

- 5 LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
- LED COLOR: DOMINANT WAVELENGTH(λD): GREEN 568nm TYP. AT IF=20mA
- FORWARD VOLTAGE (VF): GREEN 2.2V TYP. AT IF=20mA
- DOMINANT WAVELENGTH(λD): YELLOW 588nm TYP. AT IF=20mA
- FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. AT IF=20mA.

- 6 THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

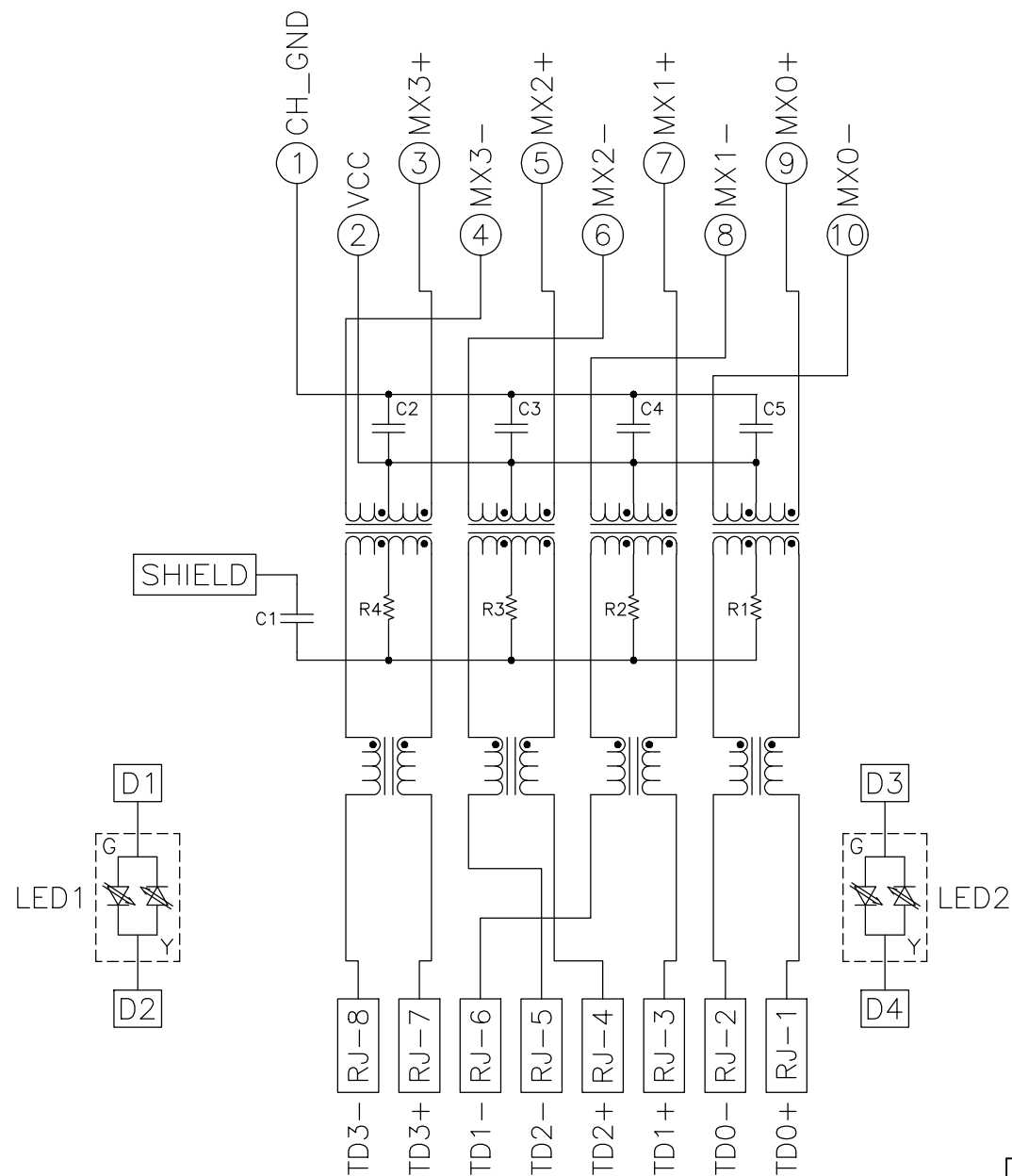
- 7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 265°C MAX, 10 SECONDS MAX.

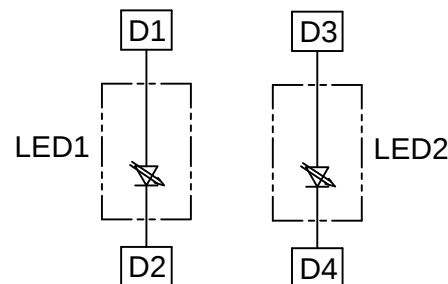
|             |              |              |             |
|-------------|--------------|--------------|-------------|
| 0.110±0.010 | GREEN/YELLOW | GREEN/YELLOW | 2-6610144-6 |
| 0.145±0.010 | GREEN        | YELLOW       | 6610144-8   |
| 0.145±0.010 | GREEN/YELLOW | GREEN/YELLOW | 6610144-6   |
| DIM "A"     | LED1 5       | LED2 5       | PART NUMBER |

|                                        |  |                                           |  |                                          |  |                               |  |
|----------------------------------------|--|-------------------------------------------|--|------------------------------------------|--|-------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  |                                           |  | TRP connector<br>Dongguan China          |  |                               |  |
| DIMENSIONS:<br>INCHES                  |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED: |  | DRAWN<br>A. FERNANDEZ-DOCKS<br>18MAR2005 |  | CHK<br>D. FAROLE<br>18MAR2005 |  |
| 0 PLC ± -                              |  | 1 PLC ± -                                 |  | APPROVED<br>D. FAROLE<br>18MAR2005       |  | PRODUCT SPEC<br>108-2100      |  |
| 1 PLC ± -                              |  | 2 PLC ± .010                              |  | APPLICATION SPEC                         |  | SIZE<br>A1                    |  |
| 2 PLC ± .005                           |  | 3 PLC ± -                                 |  | WEIGHT                                   |  | CAGE CODE<br>00779            |  |
| 3 PLC ± -                              |  | 4 PLC ± -                                 |  | CUSTOMER DRAWING                         |  | DRAWING NO<br>C-6610144       |  |
| MATERIAL<br>1                          |  | FINISH<br>1                               |  | SCALE<br>4:1                             |  | RESTRICTED TO<br>-            |  |
|                                        |  |                                           |  | SHEET<br>1                               |  | REV<br>F                      |  |

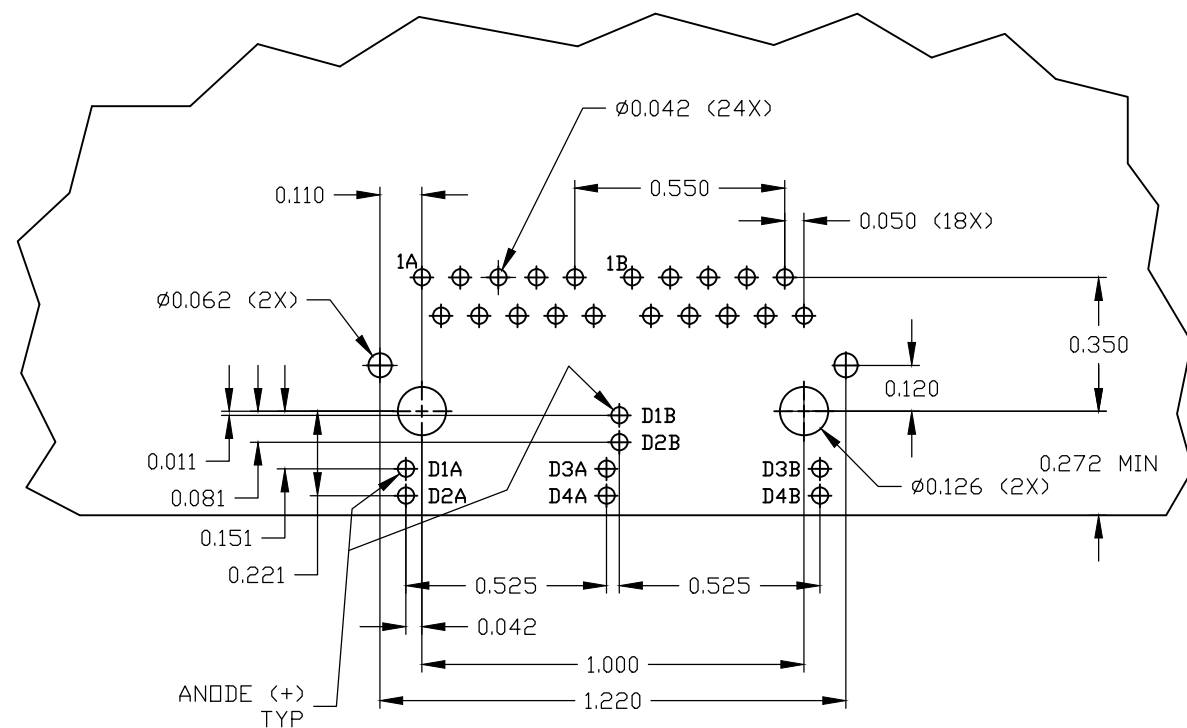
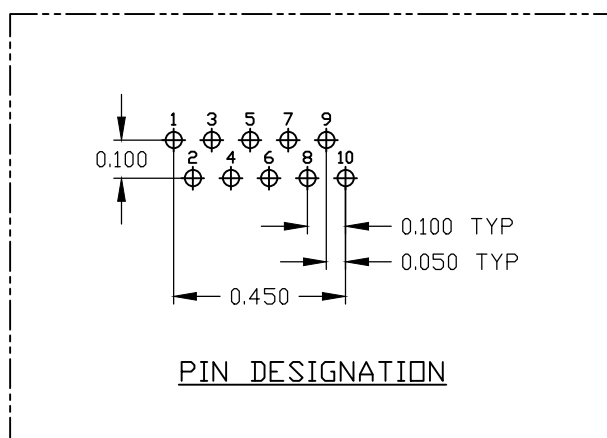
## 7G06 SERIES GIGABIT CIRCUIT



C1 = 1000pF, 2kV CAPACITOR.  
R1-R4 = 75 OHMS, 1/16W RESISTORS.  
C2-C5 = 0.1μF, 50V, X7R CAPACITORS.



LED CONFIGURATION  
6610144-8 ONLY



SUGGESTED PCB LAYOUT  
(Component Side)

|                                           |  |                                        |                                 |                         |
|-------------------------------------------|--|----------------------------------------|---------------------------------|-------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.    |  | DRN<br>A. FERNANDEZ-DOCK5<br>18MAR2005 | TRP connector<br>Dongguan China |                         |
| DIMENSIONS:<br>INCHES                     |  | CHK<br>D. FAROLE<br>18MAR2005          | PRODUCT SPEC<br>108-2100        |                         |
| TO TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | APPRO<br>D. FAROLE<br>18MAR2005        | APPLICATION SPEC<br>—           |                         |
| MATERIAL<br>—                             |  | FINISH<br>—                            | WEIGHT<br>—                     | RESTRICTED TO<br>—      |
| CUSTOMER DRAWING                          |  | SIZE<br>A1                             | CAGE CODE<br>00779              | DRAWING NO<br>C-6610144 |
| SCALE<br>4:1                              |  | SHEET<br>2                             | OF<br>2                         | REV<br>F                |