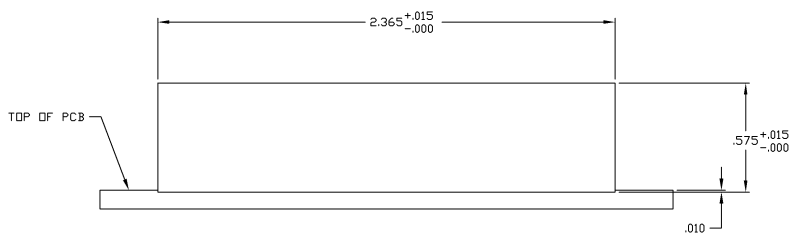
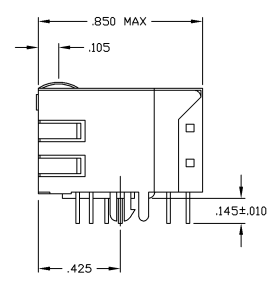
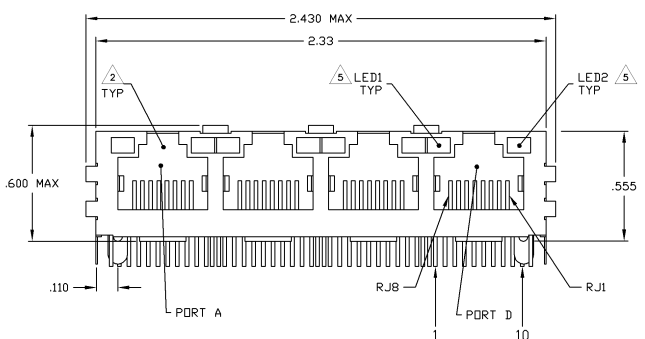
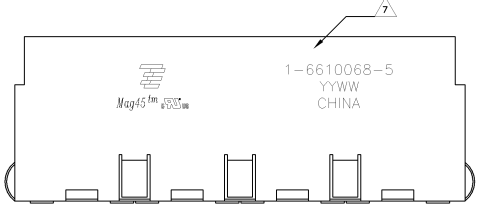


MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

1. MATERIALS
  - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
  - SHIELD - .010" THICK, C24800 BRASS PREPLATED WITH .001INCH MIN SE48-BRIGHT NICKEL
  - SOLDER TABS POST DIPPED WITH 100INCH PHN SAC SOLDER
  - MID JACK CONTACTS - .0057 X 0.017 PHOSPHOR BRONZE, .50INCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT .50INCH MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 18INCH 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 .80INCH SILVER OVER .40INCH NICKEL UNDERPLATE OVER .40INCH COPPER UNDERPLATE. POST-PLATED WITH 18INCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.
2. RIAS JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
3. MAGNETICS
  - APPLICATION 10/100/1000 BASE-T
  - IMPEDANCE 100 OHMS
  - TURNS RATIO (W/F CABLE) 1:1 ALL FOUR PAIRS
  - OPEN CIRCUIT INDUCTANCE (OCCL) 35UH MIN @100KHZ, 0.1VRMS
  - BRACD BIAS FROM 0°C TO 10°C, ALL FOUR PAIRS
  - ALL FOUR PAIRS BI-DIRECTIONAL
  - PERFORMANCE @ 25°C
  - INSERTION LOSS (IL) 1.5dB MAX FROM 0.5MHz TO 100MHz
  - RETURN LOSS (RL) 30dB MIN FROM 0.5MHz TO 10MHz
  - 12-20LOG(I/BO)dB MIN FROM 4.5MHz TO 100MHz
  - CROSSTALK ATTENUATION 35dB MIN FROM 0.5MHz TO 10MHz
  - 33-20LOG(F/FS)dB MIN FROM 4.5MHz TO 100MHz
  - COMMON MODE REJECTION RATIO (CMRR) 35dB MIN FROM 0.5MHz TO 100MHz
  - ISOLATION VOLTAGE COMPLIES WITH IEEE802.3 2002, PARA 4.8.6.1.1, ITEM B.
4. OPERATING TEMPERATURE FROM 0°C - -70°C
5. THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
  - LED COLOR: DOMINANT WAVELENGTH (Dd): GREEN 568 nm TYP. @ IF=20mA
  - FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
  - DOMINANT WAVELENGTH (Dd): YELLOW 588 nm TYP. @ IF=20mA
  - FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
  - DOMINANT WAVELENGTH (Dd): ORANGE 605 nm TYP. @ IF=20mA
  - FORWARD VOLTAGE (VF): ORANGE 2.0V TYP. @ IF=20mA
  - IF THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
  - LED COLOR: DOMINANT WAVELENGTH (Dd): GREEN 568 nm TYP. @ VF=5V
  - FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
  - DOMINANT WAVELENGTH (Dd): YELLOW 588 nm TYP. @ VF=5V
  - FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V
6. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MIX.
7. TYTO ELECTRONICS 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. PREHEAT TEMPERATURE IS 120 °C TO 90 °C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

|     |              |     |              |             |
|-----|--------------|-----|--------------|-------------|
| NO  | GREEN        | NO  | GREEN/ORANGE | 1-6610068-8 |
| NO  | GREEN        | NO  | GREEN        | 5-6610068-7 |
| NO  | GREEN/YELLOW | NO  | GREEN        | 1-6610068-5 |
| YES | GREEN        | YES | GREEN        | 1-6610068-1 |
| NO  | GREEN        | NO  | YELLOW       | 6610068-8   |
| NO  | GREEN/YELLOW | NO  | GREEN/YELLOW | 6610068-6   |

|                 |      |              |      |             |
|-----------------|------|--------------|------|-------------|
| 250ohm RESISTOR | LED1 | LED RESISTOR | LED2 | PART NUMBER |
|-----------------|------|--------------|------|-------------|

|                  |       |     |    |     |     |
|------------------|-------|-----|----|-----|-----|
| ORIGINATOR       | DATE  | REV | BY | CHK | APP |
| TYTO ELECTRONICS | 00779 | A1  |    |     |     |

