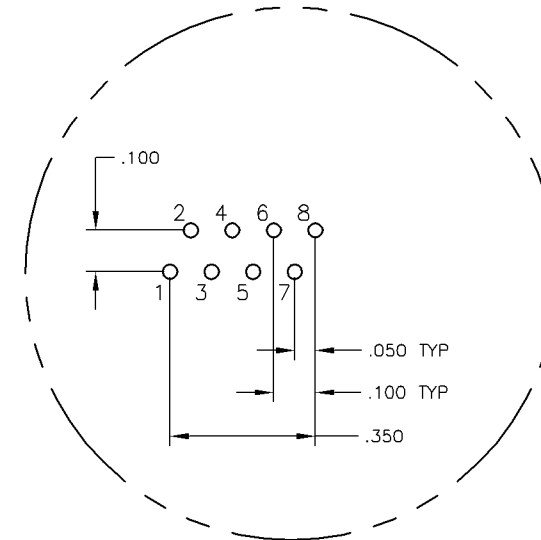
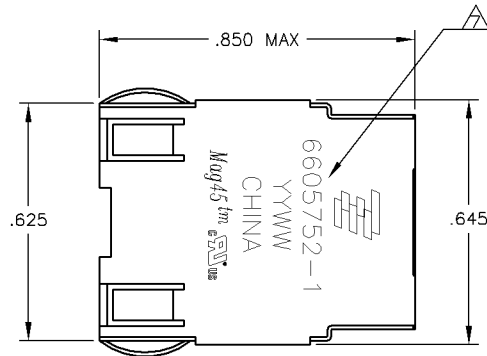


MECHANICAL:



Pin Designations

- 1 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.
  - SOLDERTAILS 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.

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

- 3 MAGNETICS
- APPLICATION: 10 BASE-T
  - IMPEDANCE: 100 OHMS
  - TURNS RATIO (CHIP:CABLE): TX = 1:2.5 RX = 1:1
  - TRANSMIT OPEN CIRCUIT INDUCTANCE (OCL): 140mH MIN @ 100kHz, 0.1VRMS
  - LEAKAGE INDUCTANCE (LL): 0.30mH MAX @ 100kHz, 0.1VRMS
  - INTERWINDING CAPACITANCE (CWW): 15pF MAX @ 100kHz, 0.1VRMS
  - ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 15.3.4, ITEM a.

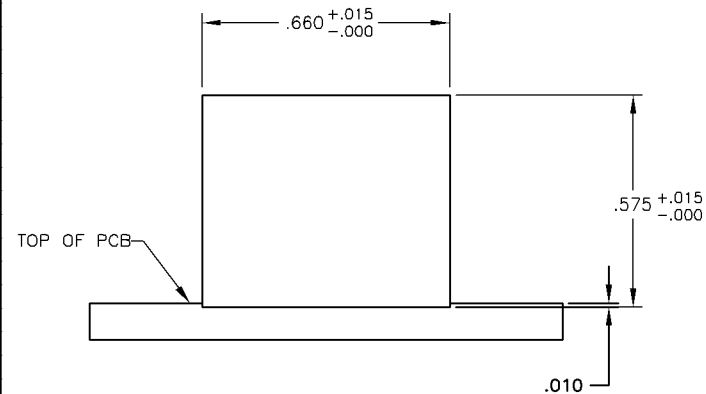
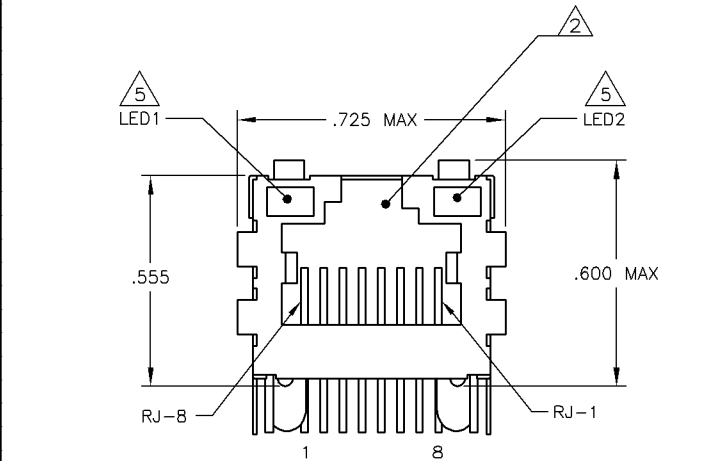
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

- 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 (λD): GREEN 568 nm TYP. @ IF=20mA
  - FORWARD VOLTAGE (VF):GREEN 2.2VTYP. @ IF=20mA
  - DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
  - FORWARD VOLTAGE (VF):YELLOW 2.1VTYP. @ 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 (λD): GREEN 568 nm TYP. @ VF=5V
  - FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
  - DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V
  - FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V

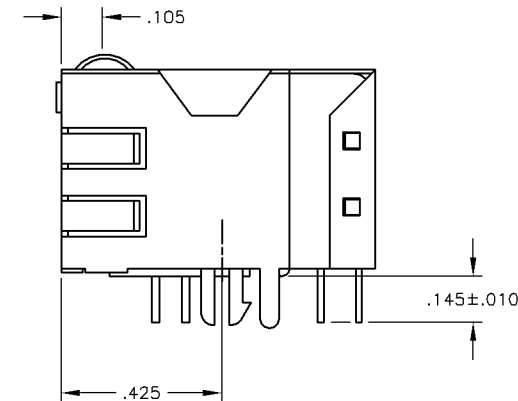
- 6 INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION

- 7 TYCO ELECTRONICS, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

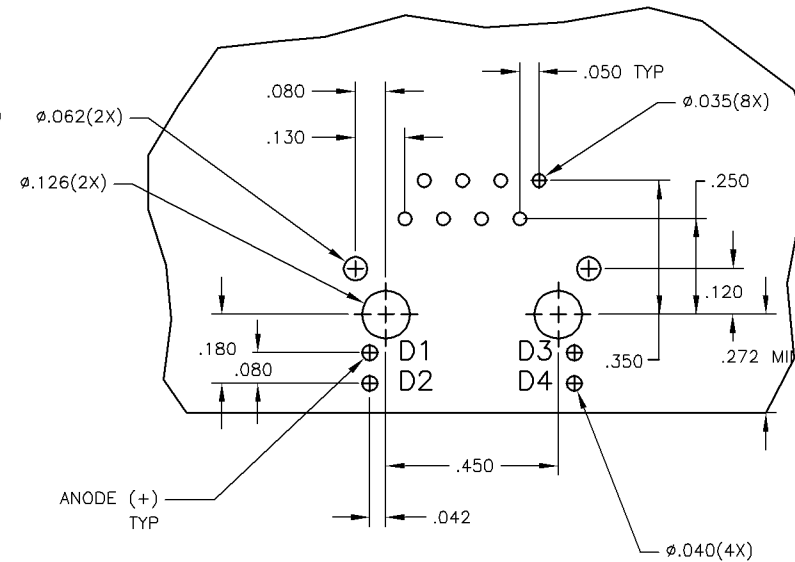
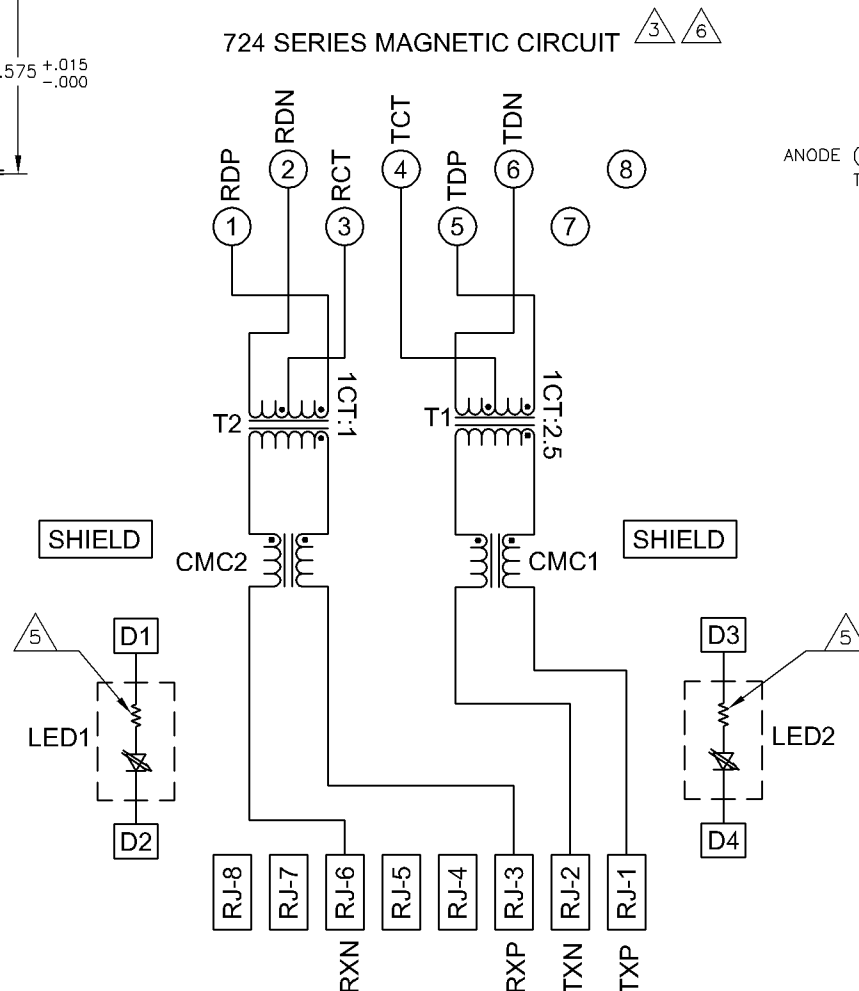
8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS,PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.



Suggested Panel Cutout



724 SERIES MAGNETIC CIRCUIT



Suggested PCB Layout  
(Component Side)

|              |       |              |        |             |
|--------------|-------|--------------|--------|-------------|
| YES          | GREEN | YES          | GREEN  | 1-6605752-1 |
| NO           | GREEN | NO           | GREEN  | 6605752-7   |
| YES          | GREEN | YES          | YELLOW | 6605752-1   |
| LED RESISTOR | LED1  | LED RESISTOR | LED2   | PART NUMBER |

|  |  |                     |  |   |  |
|--|--|---------------------|--|---|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DW L VARELA - DOCK5 |  | Tyco Electronics Corporation            |  |
| DIMENSIONS: INCHES                     |  | D. FAROLE           |  | Tyco Electronics                        |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | D. FAROLE           |  | ChangPing, China                        |  |
| 0 PL ± -                               |  | NAME                |  | 1X1 MAC45(TM), MODULAR JACK, 7N3        |  |
| 1 PL ± -                               |  | PRODUCT SPEC        |  | 10BASE-T ETHERNET SCHEMATIC, 724 SERIES |  |
| 2 PL ± .010                            |  | APPLICATION SPEC    |  | MAGNETIC CIRCUIT, SHIELDED, WITH LEDS   |  |
| 3 PL ± .005                            |  | SIZE                |  | A1                                      |  |
| 4 PL ± -                               |  | GAGE CODE           |  | 00779                                   |  |
| FINISH                                 |  | DRAWING NO          |  | C=6605752                               |  |
| MATERIAL                               |  | WEIGHT              |  | RESTRICTED TO                           |  |
| 1                                      |  | -                   |  | -                                       |  |
| CUSTOMER DRAWING                       |  | SCALE               |  | NTS                                     |  |
|  |  | SHEET               |  | 1 OF 1                                  |  |
|  |  | REV                 |  | C                                       |  |

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