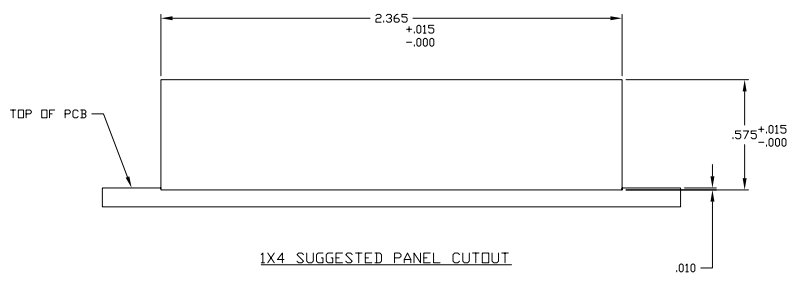
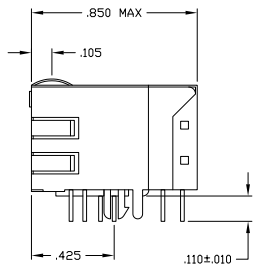
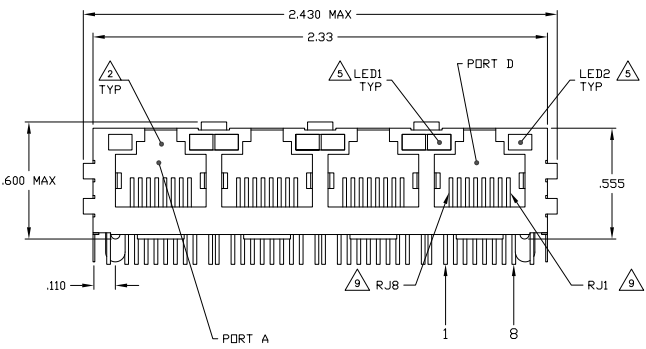
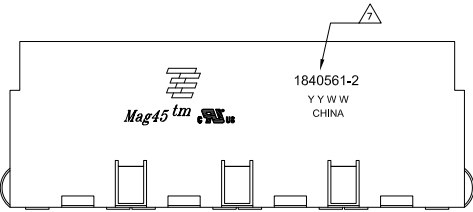


MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

- 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. 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.
- 2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- 3. MAGNETICS
  - APPLICATION: 10/100 BASE-T
  - IMPEDANCE: 100 OHMS
  - TURNS RATIO (RHP-CABLE): TX = 11, RX = 11
  - OPEN CIRCUIT INDUCTANCE (OCL): 350nH MIN @100kHz, 0.1VRMS, 8mA DC 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
    - 18-20LOG10(S)dB MIN FROM 30.1MHz TO 60MHz
    - 12dB MIN FROM 60.1MHz TO 80MHz
    - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
    - 33-20LOG10(S)dB MIN FROM 40.1MHz TO 100MHz
    - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
    - ISOLATION VOLTAGE: 2250 VDC FOR 60 SECONDS DURATION.
- 4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- 5. LEDS WITH BUILT-IN RESISTOR
  - LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
  - LED COLOR: DOMINANT WAVELENGTH (nm): GREEN 568 nm TYP. @ VF=5V
  - FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
  - DOMINANT WAVELENGTH (nm): YELLOW 588 nm TYP. @ VF=5V
  - FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V
- 6. INDICATED CONNECTIONS ARE FOR WIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-HDI/HDX.
- 7. TYCO 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 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.
- 9. HM-15 LUBRICANT PN 1325291-1 APPLIED IN MATING AREA.
- 10. 1840561-2 SHOWN UNLESS OTHERWISE NOTED.

GREEN	YELLOW	1840561-1
YELLOW	GREEN	1840561-2
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT

DESIGNER	DATE	REV	BY	CHK	APP

TYCO Electronics Corporation  
Changfeng, China

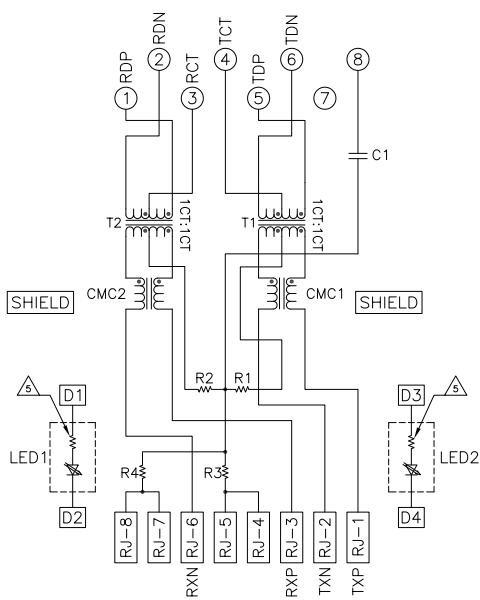
1X4 MAG45(TN) MODULAR JACK, 7N2 SCHEMATIC, 26 SERIES CIRCUIT, SHIELDED, WITH RESISTOR LEDS

SIZE: 100-2100

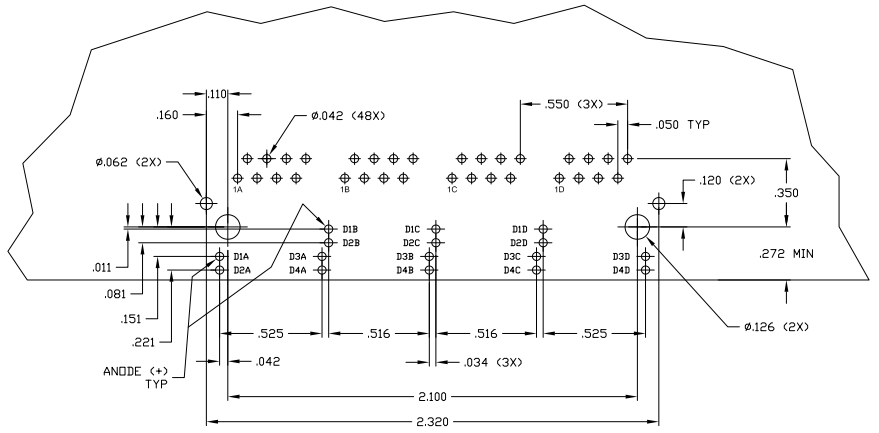
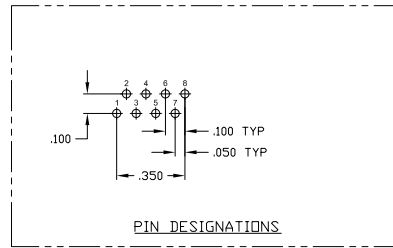
REV: 100779

CUSTOMER DRAWING

**726 SERIES MAGNETIC CIRCUIT**



C1=1000pF, 2kV CAPACITOR  
R1-R4 = 75 OHMS, 1/16W RESISTORS



**SUGGESTED PCB LAYOUT**  
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT		DATE	ISSUE	Type Electronics Corporation Changfeng, China	
DRAWING NO.		DESIGNER	OPERATOR	Type Electronics Corporation	
CHECKED BY		DATE	DATE	1X4 MAG42(TW) MODULAR JACK, P22 SCHEMATIC, 26 SERIES CIRCUIT, SHIELDED, WITH RESISTOR LEADS	
REVISIONS		NO.	DATE	100-2100	
REVISIONS		NO.	DATE	A1 00779 1840561	
CUSTOMER DRAWING		DATE	DATE	2 2 C	