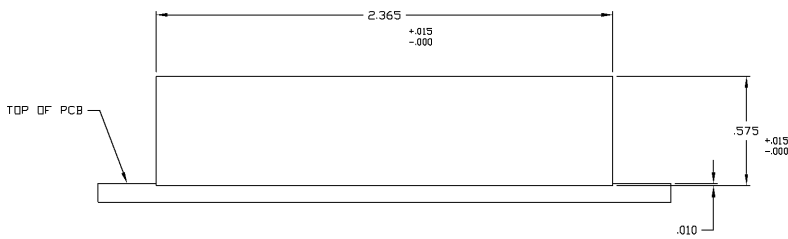
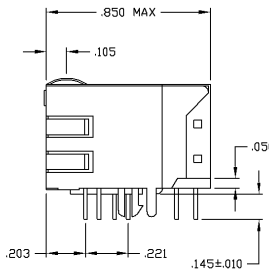
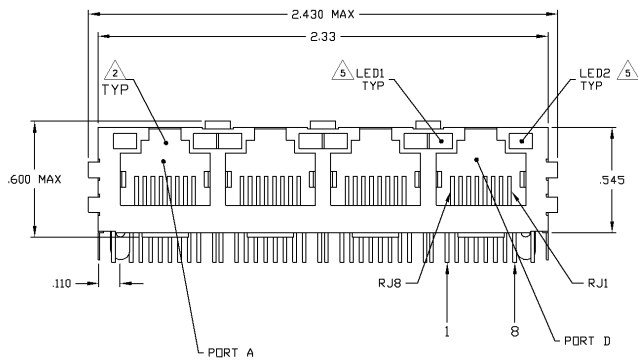
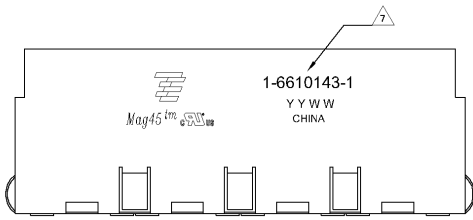


MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

- 1 MATERIALS
  - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
  - SHIELD - .031 THICK C2400 BRASS PREPLATED WITH 100µINCH MIN SPC-SOLDER
  - NICKEL SOLDER TABS POST DIPPED WITH 100µINCH MIN SPC SOLDER
  - JACK CONTACTS - .0051 X .840" PHOSPHOR BRONZE, 50µINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50µINCH MIN HARD GOLD FINISH PLATE
  - SOLDER TABS WITH 100µINCH MIN MATE TIN AND/OR SAC SOLDER DIP
  - LIGHT EMISSION BODIELED - DIFFUSED EPOXY LENS, .020" X .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80µINCH SILVER OVER 10µINCH NICKEL UNDERPLATE OVER 10µINCH COPPER UNDERPLATE, POST-PLATED WITH 100µINCH MATE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP
- 2 FIAS JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- 3 MAGNETICS
  - IMPEDANCE: 100 OHMS
  - TURNS RATIO (RMP CABLE) TX = 11, RX = 11
  - OPEN CIRCUIT INDUCTANCE (OCL) 350µH MIN @ 100MHz, 0 TVRMS, BRACK BIAS FROM 0°C TO 70°C, TX AND RX
  - PERFORMANCE @ 25°C:
    - INSERTION LOSS (IL) 1.8B MAX FROM 0.5MHz TO 100MHz
    - RETURN LOSS (RL) 15dB MIN FROM 0.5MHz TO 30MHz
    - 18-20LOG(S)/10dB MIN FROM 30.1MHz TO 60MHz
    - 12dB MIN FROM 60.0MHz TO 80MHz
    - 33-20\*LOG(S)/10dB MIN FROM 8.0MHz TO 100MHz
    - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 60MHz
    - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
    - ISOLATION VOLTAGE: COMPLEX WITH IEEE802.3 2000, PARA 23.5.11, ITEM 8
- 4 OPERATING TEMPERATURE: FROM 0°C TO -70°C.
- 5 LEADS WITH BUILT-IN RESISTOR
  - LEADS ARE 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 HUB CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-HUB/MDIX.
- 7 TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
- 8 THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS. PEAK WAVE SOLDERING TEMPERATURE IS 265°C MAX, 10 SECONDS MAX.

GREEN	GREEN	1-6610143-1
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. IN ACCORDANCE WITH THE COMPANY'S POLICY.

DATE: 08/15/2008

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

DATE: 08/15/2008

REV: A1

CUSTOMER DRAWING

TYCO ELECTRONICS

1X4 MAG45(TN) MODULAR JACK

7X1 SCHEMATIC, 40 SERIES CIRCUIT, SHIELDED, WITH GREEN/GREEN RESISTOR LEADS

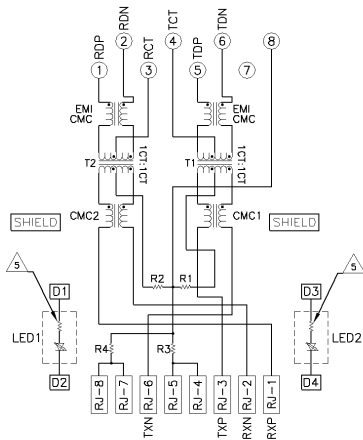
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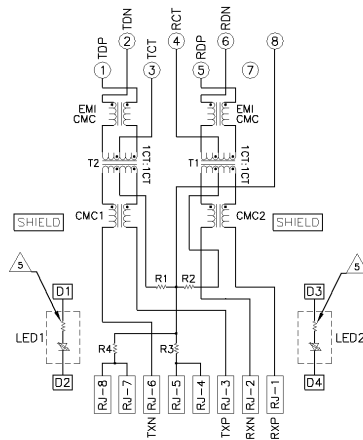
SCALE: 4:1

SHEET: 1 OF 2

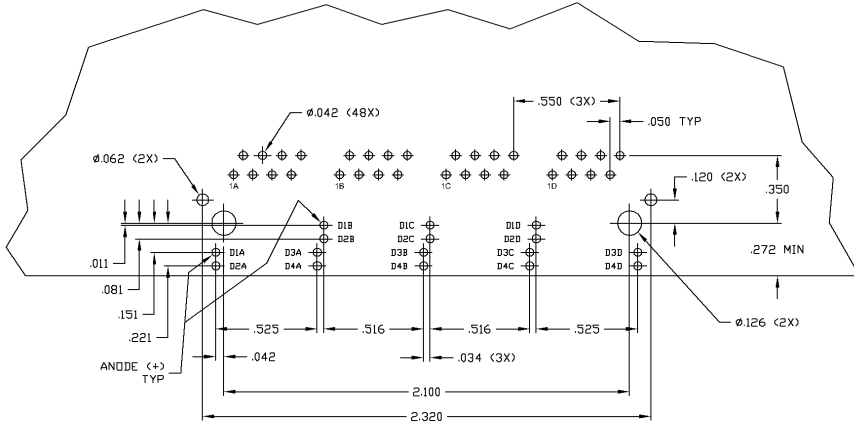
746K1 SERIES MAGNETIC CIRCUIT  
PORTS 1,3



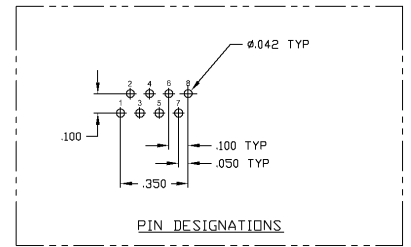
746K1 SERIES MAGNETIC CIRCUIT  
PORTS 2,4



R1-R4 = 75 OHMS, 1/16W, 5% RESISTOR



SUGGESTED PCB LAYOUT  
(Component Side)



THIS DRAWING IS A CONTROLLED DOCUMENT.		REV	DATE	REVISIONS
AA	22	REWORKED		
DRAWN BY: [Signature]		CHKD BY: [Signature]	DATE: [Date]	SCALE: [Scale]
TITLED: [Title]		PROJECT: [Project]	WORK CENTER: [Work Center]	QUANTITY: [Quantity]
MATERIAL: [Material]		REV: [Rev]	DATE: [Date]	SCALE: [Scale]
CUSTOMER DRAWING		REV: A1	DATE: 00779	SCALE: 4:1