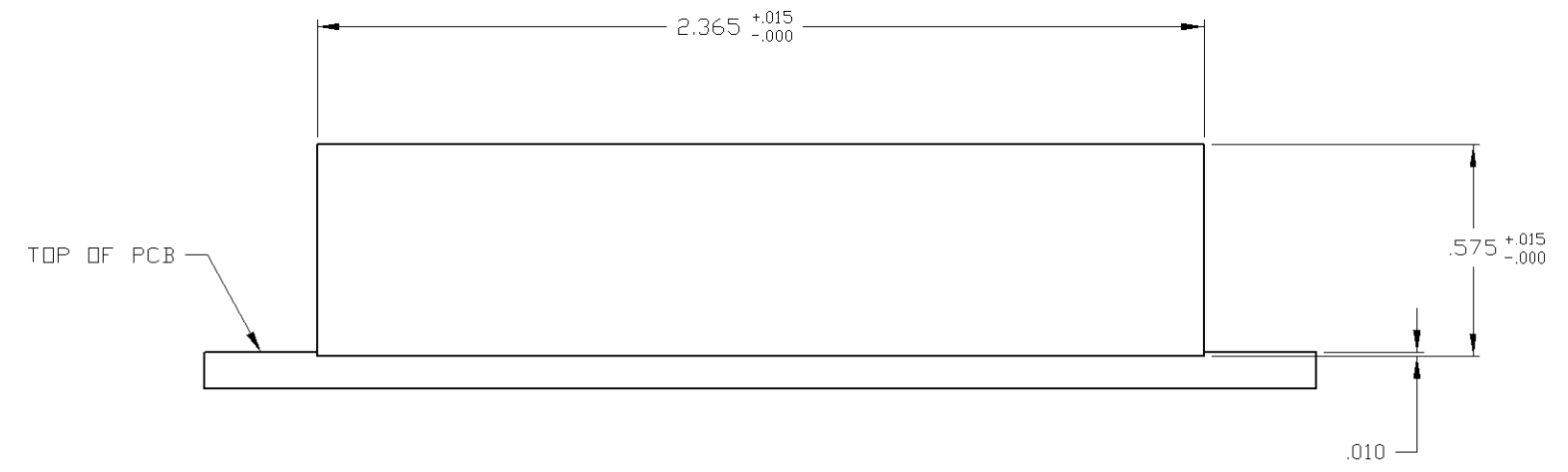
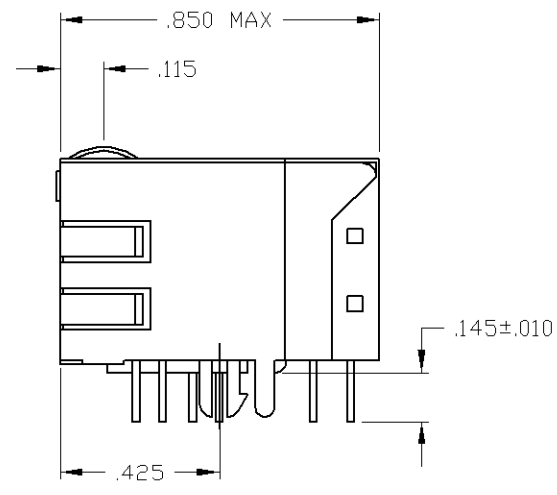
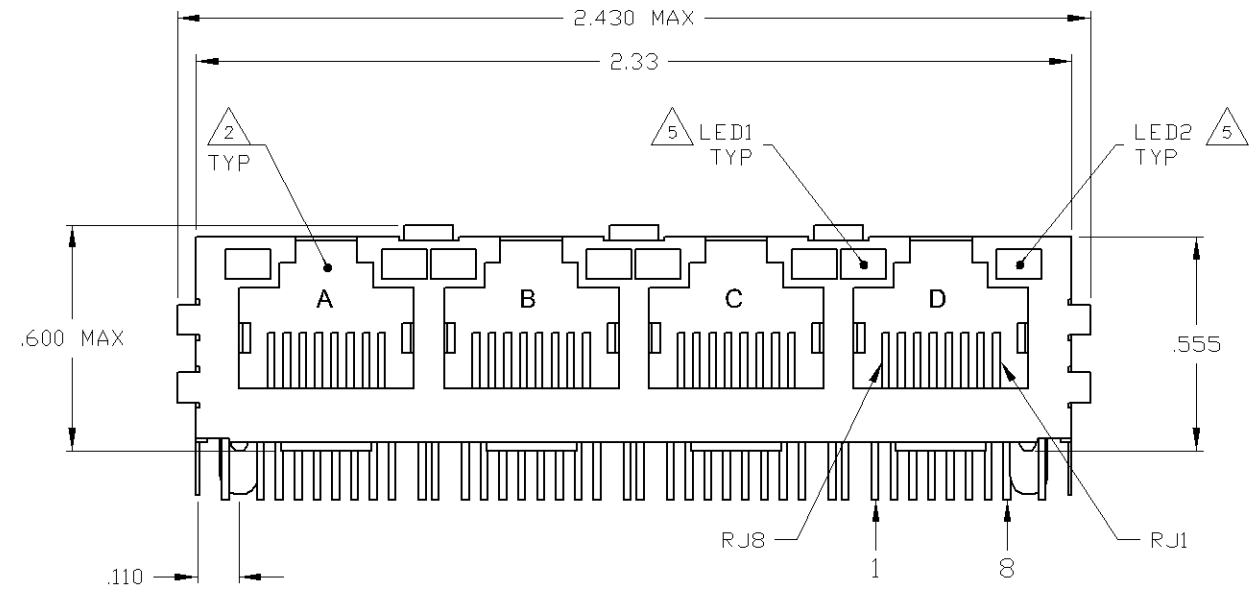
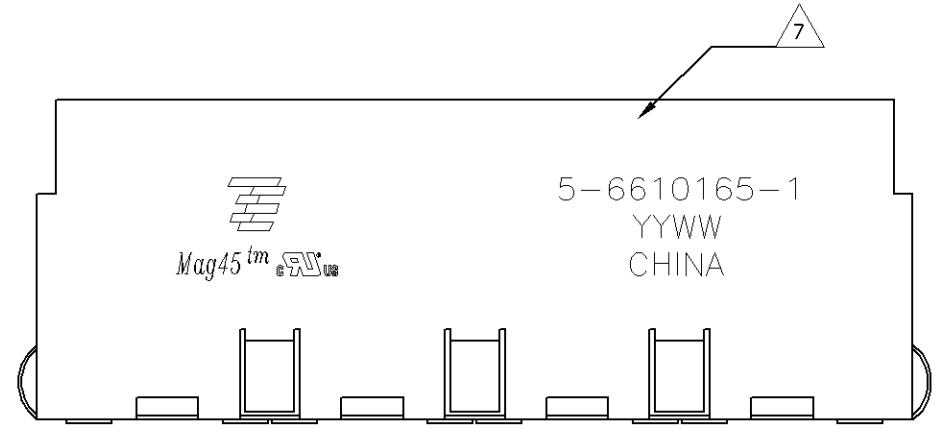


MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

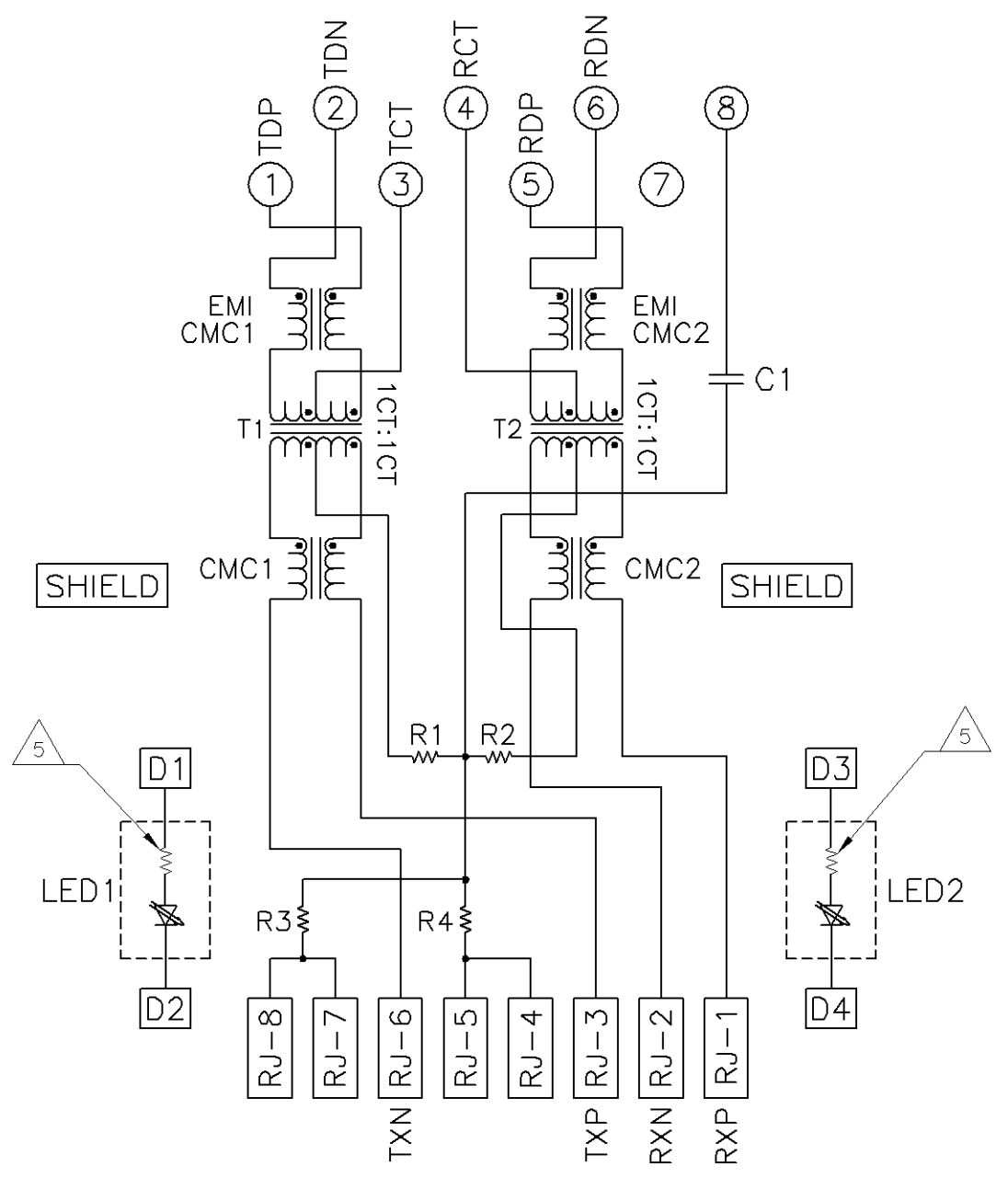
- 1 MATERIALS:
  - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
  - SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
  - MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL 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, 0.20" X 0.20" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μIN 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): TX = 1:1, RX = 1:1
  - OPEN CIRCUIT INDUCTANCE (OCL): 350mH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO +85°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
    - 18-20LOG(f/30)dB MIN FROM 30.1MHZ TO 60MHZ
    - 12dB MIN FROM 60.1MHZ TO 80MHZ
    - 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: COMPLIES WITH IEEE802.3 2002, PARA 23.5.1.1, ITEM b.
- 4 OPERATING TEMPERATURE: FROM -40°C TO +85°C INDUSTRIAL TEMPERATURE.
- 5 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 HUB CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND SUPPORTS AUTO-MDI/MDIX.
- 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.

YELLOW	GREEN	5-6610165-2
GREEN	YELLOW	5-6610165-1
LED1	LED2	PART NUMBER

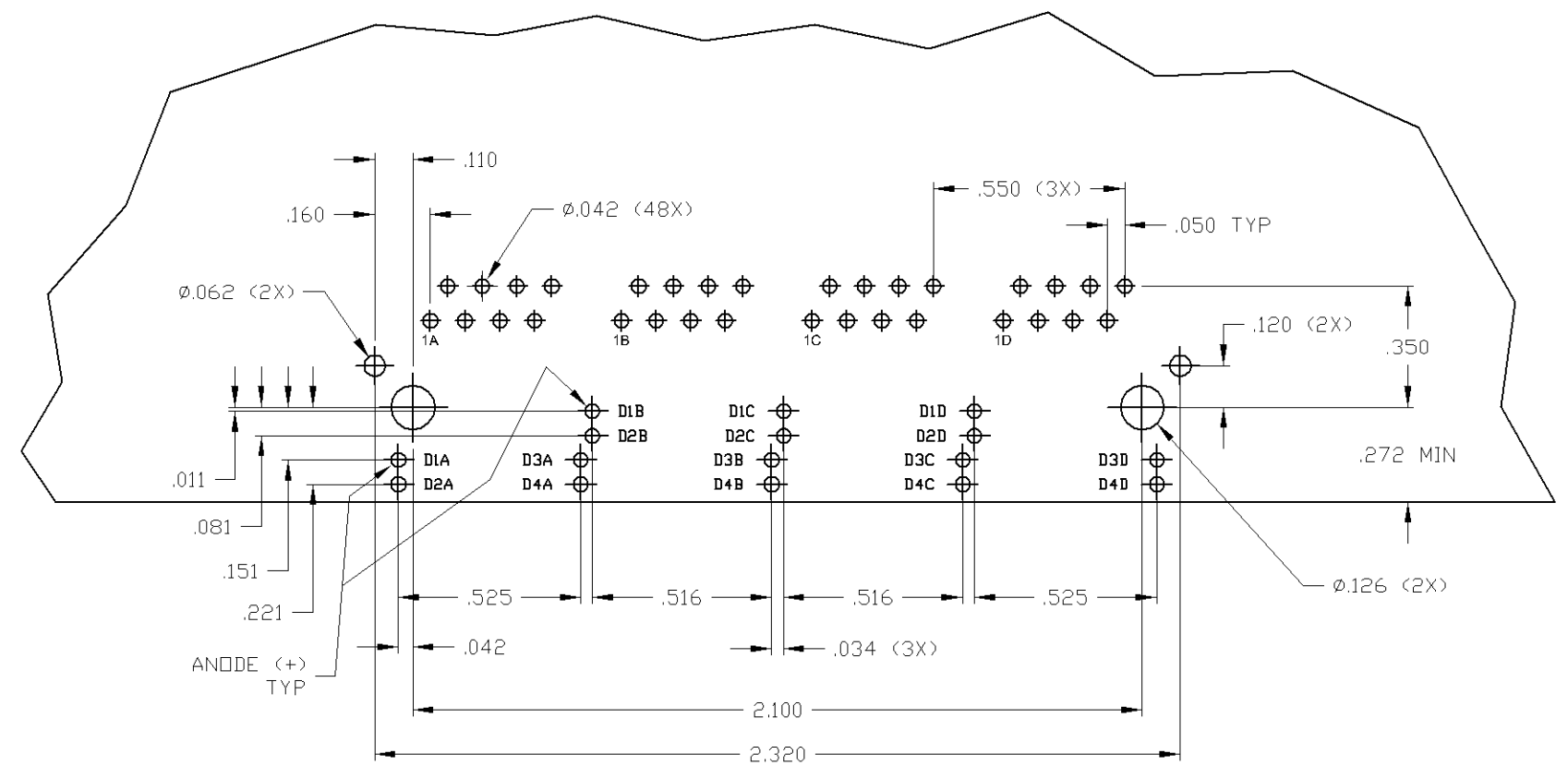
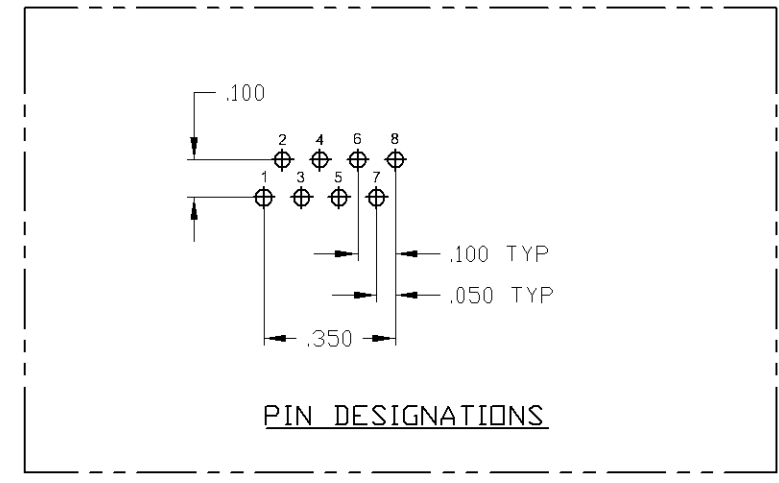
THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN: G. ATTADIA - DOCKS	Tyco Electronics Corporation ChengPing, China	
DESIGNED BY: D. FAROLE	RELEASED UNDER: 100% CONTROL	DATE: 10/20/08	NAME: D. FAROLE	100% CONTROL
DRAWN BY: D. FAROLE	REVISIONS:	PRODUCT SPEC: 108-2100	APPLICATION SPEC:	1X4 MAG45(TM), 7H2ET INDUSTRIAL TEMPERATURE SCHEMATIC, 748ET SERIES CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH RESISTOR LEADS
MATERIAL: A1	FINISH: C	SCALE: 4:1	SHEET: 1 OF 2	REV: C

ELECTRICAL:

746ET SERIES MAGNETIC CIRCUIT 3 6



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



SUGGESTED PCB LAYOUT  
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DR: G. ATTADIA - DQCK5	DATE: 18MAY2005	BY: Tyco Electronics	LOCATION: ChengPing, China
DESIGNED BY: D. FAROLE		CHK: D. FAROLE	DATE: 18MAY2005	NAME: Tyco Electronics Corporation	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC: 108-2100	
1 PL ± .010		2 PL ± .005		APPLICATION SPEC: -	
3 PL ± .005		4 PL ± .005		SIZE: A1	
MATERIAL: -		FINISH: -		GAGE CODE: 00779	
MOHT: -		SCALE: 4:1		DRAWING NO: 6610165	
CUSTOMER DRAWING		SHEET: 2 of 2		REV: C	

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