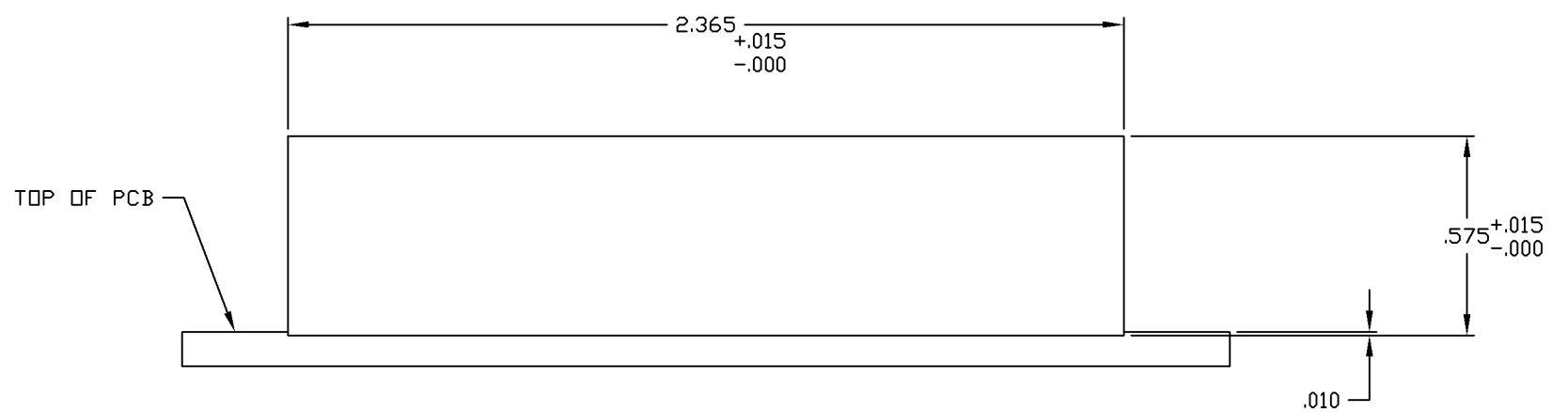
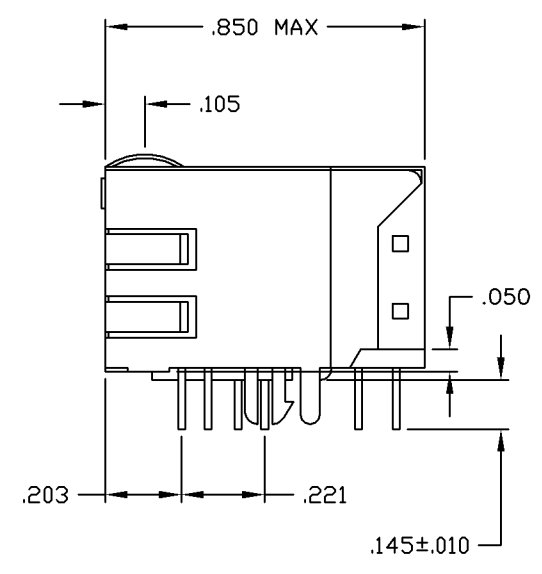
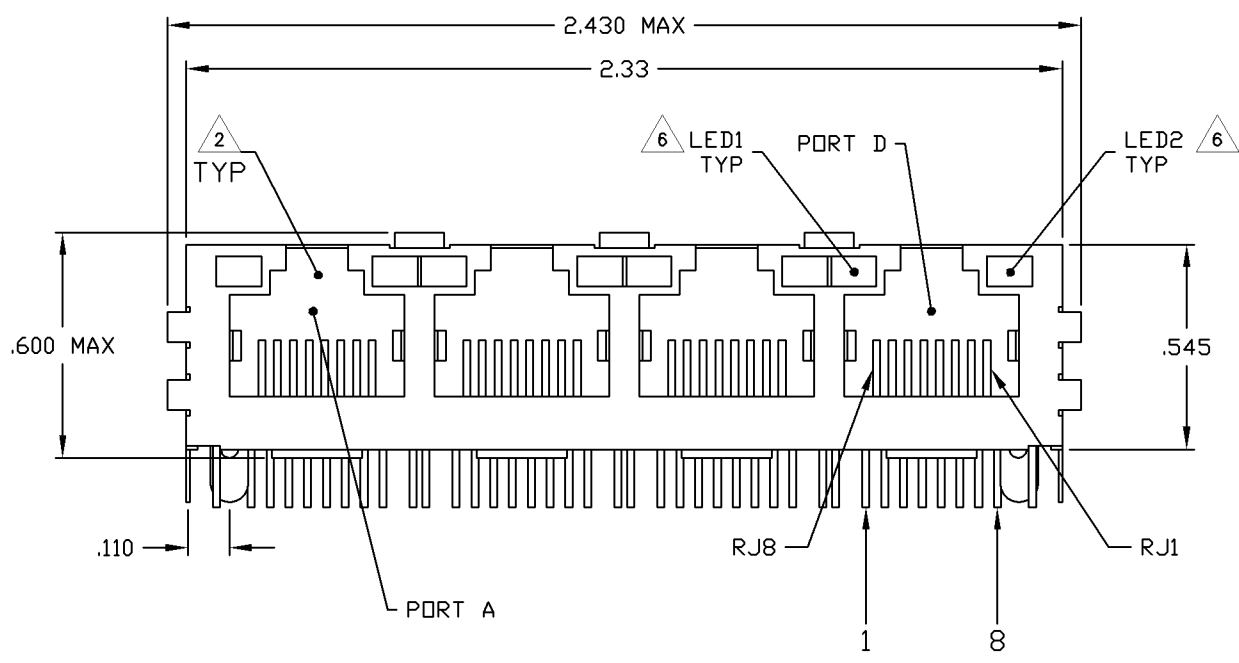
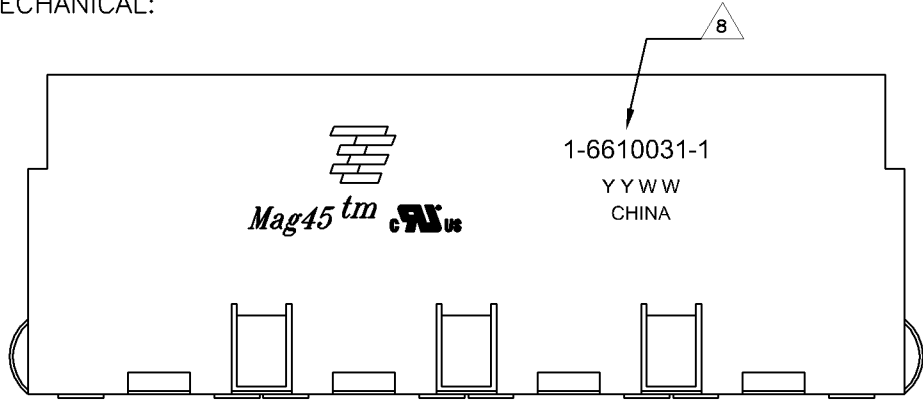


MECHANICAL:



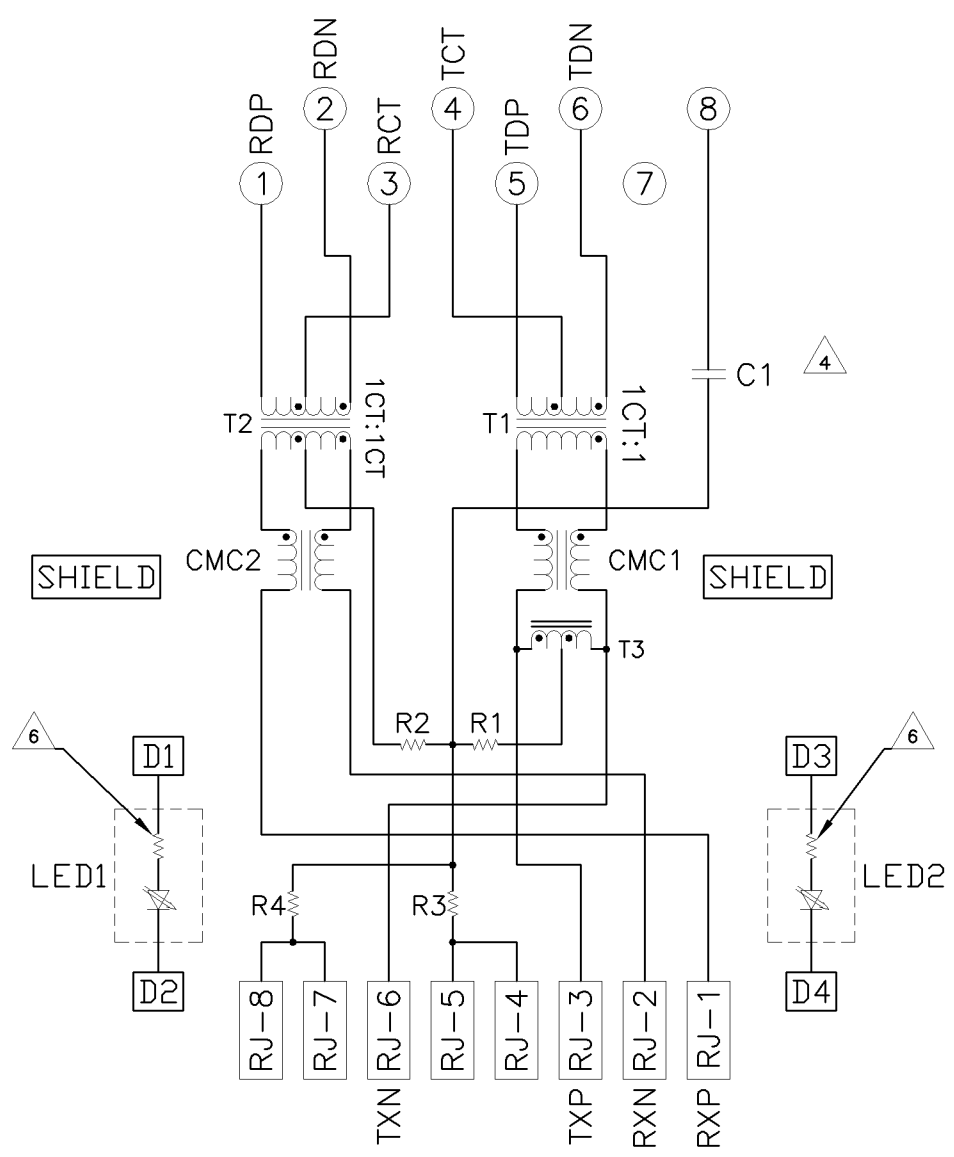
1X4 SUGGESTED PANEL CUTOUT

- 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
 -IMPEDANCE: 100 OHMS
 -TURNS RATIO (CHIP CABLE): TX = 1:1, RX = 1:1
 -OPEN CIRCUIT INDUCTANCE (OCL): 350µH 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
 18-20LOG(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
 33-20*LOG(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 C1 IS AN OPTIONAL CAPACITOR. IF NO CAPACITOR, TRACE IS CONTINUOUS. SEE TABLE FOR PRESENCE OF CAPACITOR IN DIFFERENT CONFIGURATIONS.
- 5. OPERATING TEMPERATURE: FROM 0° TO +70°C
- 6 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 2.2V TYP. @ IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
 DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): ORANGE 2.05V 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 (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
- 7 INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL AND DO NOT SUPPORT AUTO-MDI/MDIX.
- 8 TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
- 9. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 265°C, 10SECONDS MAX.

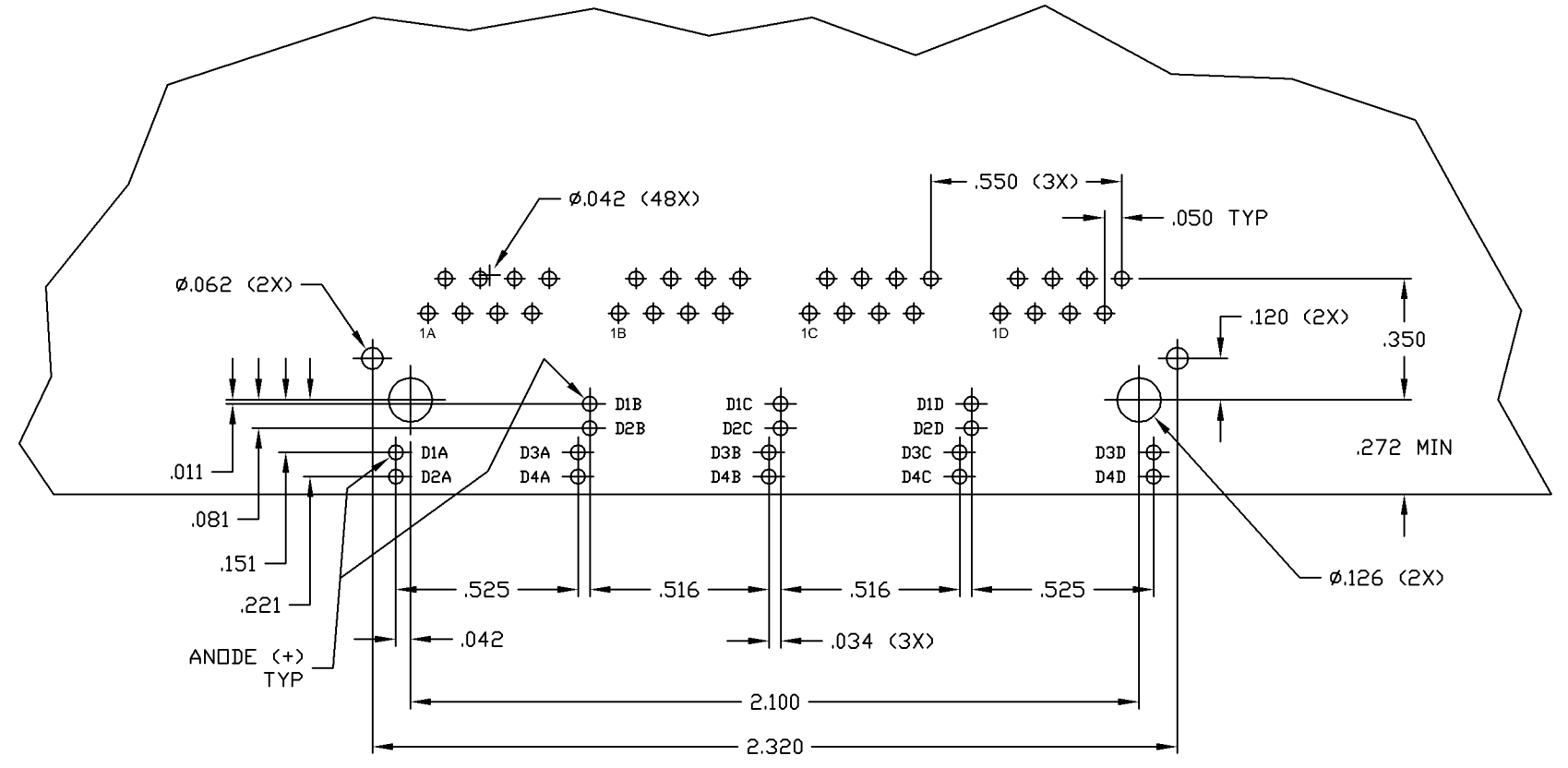
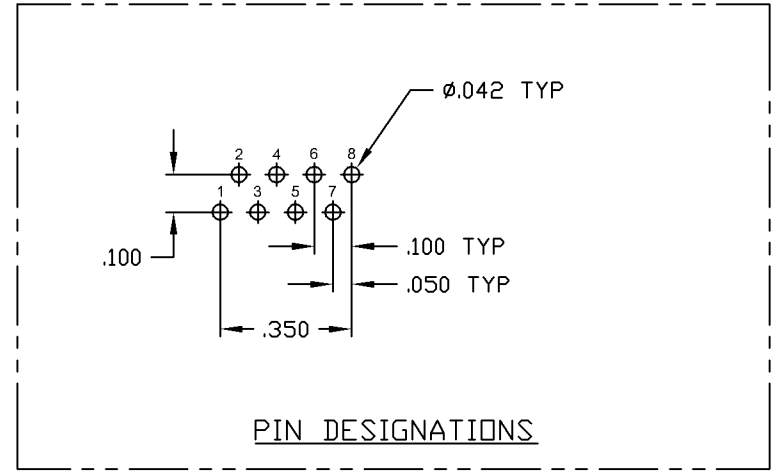
YES	YES	GREEN	GREEN	6-6610031-1
NO	YES	GREEN	GREEN	5-6610031-7
YES	YES	YELLOW	GREEN	5-6610031-2
YES	YES	GREEN	YELLOW	5-6610031-1
YES	NO	GREEN	GREEN	1-6610031-1

THIS DRAWING IS A CONTROLLED DOCUMENT.		REV: L VARELA - DOCKS	DATE: 16MAR2005	Tyco Electronics Corporation Harrisburg, PA 17105-3608	
DIMENSIONS: INCHES		DESIGNER: D. FAROLE	DATE: 16MAR2005	NAME: 1X4 MAG45(TM) MODULAR JACK, 7HS SCHEMATIC, 54 SERIES CIRCUIT, OPTIONAL DECOUPLING CAPACITOR, SHIELDED, WITH LEADS	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC: 108-2100	APPLICATION SPEC:	SIZE: A1	DATE CODE: 00779
0 PLD ± -	1 PLD ± -	MATERIAL: 1		WEIGHT: -	RESTRICTED TO: -
2 PLD ± .010	3 PLD ± .005	FINISH: 1		SCALE: 4:1	SHEET 1 OF 2
4 PLD ± -	ANGLES ± -	CUSTOMER DRAWING		REV: B	

754 SERIES MAGNETIC CIRCUIT 3 7



C1 = 1000pF. 2kV DECOUPLING CAPACITOR
 R1-R4 = 75 OHMS, 1/16W, 5% RESISTORS



SUGGESTED PCB LAYOUT
 (Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN L. VARELA - DOCK5 16MAR2005	Tyco Electronics Corporation Harrisburg, PA 17105-3608	
DIMENSIONS: INCHES		CHK D. FAROLE 16MAR2005	NAME D. FAROLE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PROD D. FAROLE	1X4 MAG45(TM) MODULAR JACK, 7H5 SCHEMATIC, 54 SERIES CIRCUIT, OPTIONAL DECOUPLING CAPACITOR, SHIELDED, WITH LEADS	
0 PLD	± -	APPL D. FAROLE	108-2100	
1 PLD	± .010	APPL SPEC	108-2100	
2 PLD	± .005	APPL SPEC	108-2100	
3 PLD	± .005	APPL SPEC	108-2100	
4 PLD	± -	APPL SPEC	108-2100	
ANGLES	± -	APPL SPEC	108-2100	
FINISH	± -	APPL SPEC	108-2100	
MATERIAL	-	APPL SPEC	108-2100	
CUSTOMER DRAWING		SIZE A1	DATE CODE 00779	DRAWING NO 6610031
		SCALE 4:1	SHEET 2	REV 2