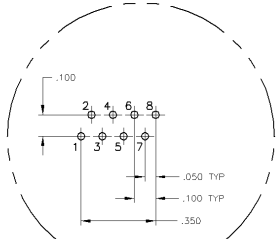
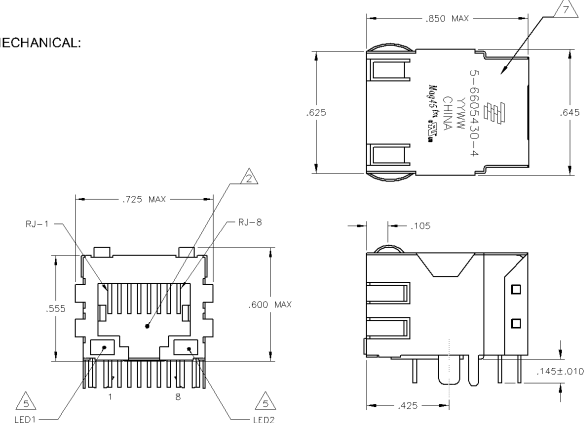
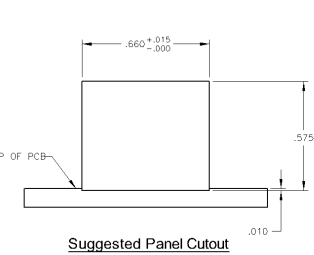


MECHANICAL:



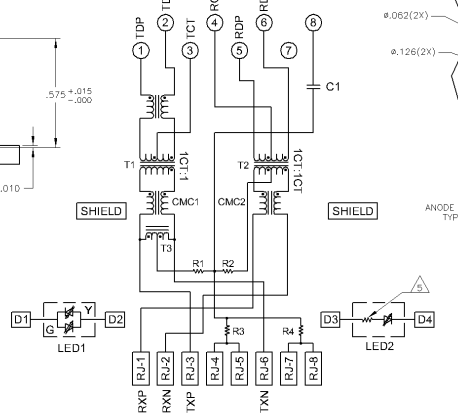
Pin Designations



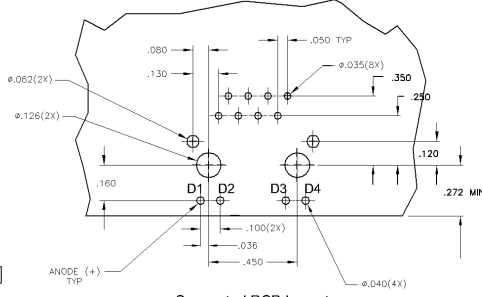
Suggested Panel Cutout

ELECTRICAL:

457 SERIES MAGNETIC CIRCUIT



C1 = 1000 pF, 3kV DECOUPLING CAPACITOR
 R1-R4 = 75 OHMS, 1/16 W RESISTORS



Suggested PCB Layout (Component Side)

- △ MATERIALS:
 HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
 SHIELD - .030" THICK, C26800 BRASS PREPLATED WITH 50μINCH 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(S) - DIFFUSED EPOXY LENS, 0.20" X 0.20" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 4μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.
- △ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F
- △ MAGNETICS:
 - IMPEDANCE 100 OHMS
 - TURNS RATIO (HP-CABLE): TX = 1:1, RX = 1:1
 - OPEN CIRCUIT INDUCTANCE (OCL) 350μH MIN @ 100kHz, 0.1V RMS, 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 4.01MHz TO 100MHz
 COMMON MODE REJECTION RATIO (CMRR): 38dB MIN FROM 0.5MHz TO 100MHz
 - ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 235.1.1, ITEM b.
- 4. OPERATING TEMPERATURE: FROM 0°C TO -70°C.
- △ 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
- △ INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND DO NOT SUPPORT AUTO-MDM/DMX.
- △ 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. PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS. PEAK SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.

GREEN/YELLOW		GREEN	5-660543D-4
LED1	LED2	PART NUMBER	
THIS DRAWING IS A CONTROLLED DOCUMENT. REV. 003 08 08/03 AUTHORIZED PERSONNEL ONLY. 111 MAG45(TM) MODULAR JACK, SHIELDED, DECOUPLING CAPACITOR, WITH LEADS REFERRED TO IN CUSTOMER DRAWING. C1 = 1000 pF, 3kV DECOUPLING CAPACITOR R1-R4 = 75 OHMS, 1/16 W RESISTORS 1008-2100 318 100779 660543D 1 of 1			
DATE	BY	CHKD	APPV
DATE	BY	CHKD	APPV
DATE	BY	CHKD	APPV
DATE	BY	CHKD	APPV