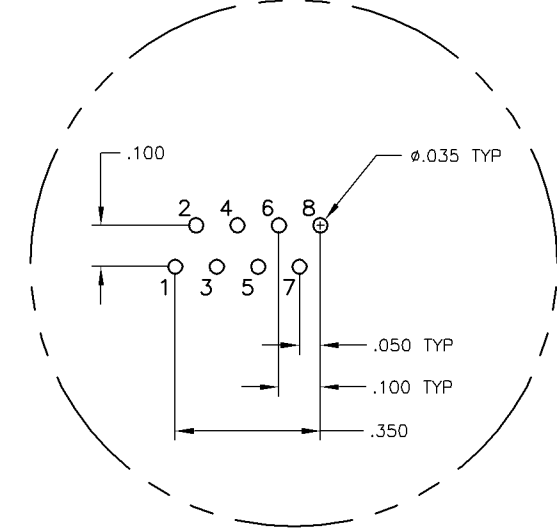
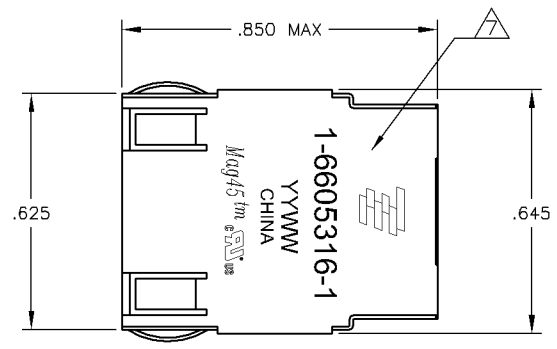


LOC		REV		REVISIONS			
AA	22	#	LN	DESCRIPTION	DATE	DRN	APP'D
		B	REV PER	ECD-08-016866	03JUL2008	QL	TX

MECHANICAL:



Pin Designations

MATERIALS:
HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μINCH 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.

RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.

MAGNETICS
 -IMPEDANCE: 100 OHMS
 -TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
 -OPEN CIRCUIT INDUCTANCE (OCL): 350uH 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 4.0MHz
 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.

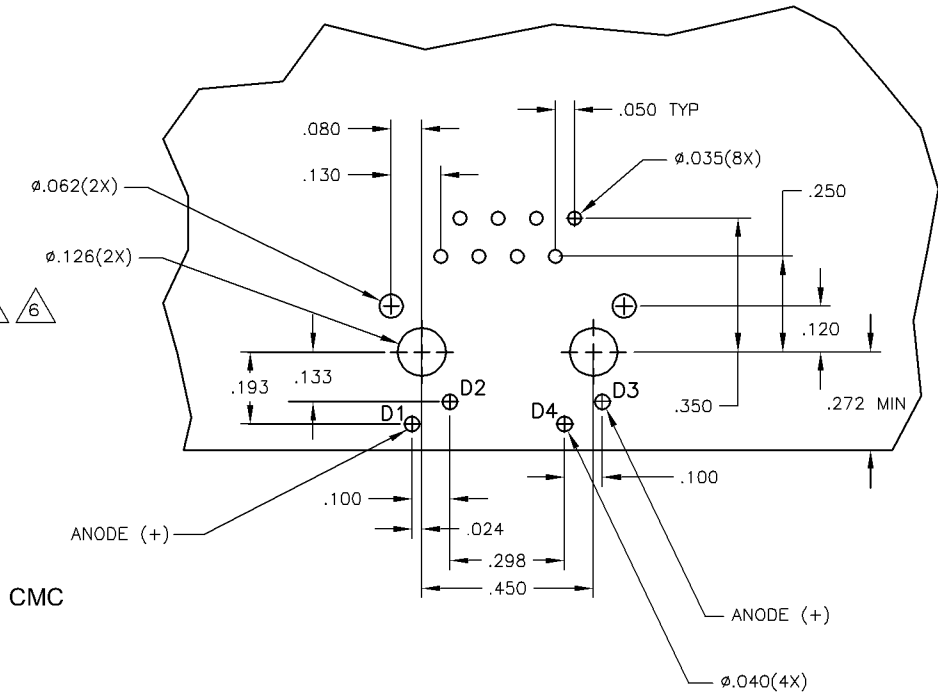
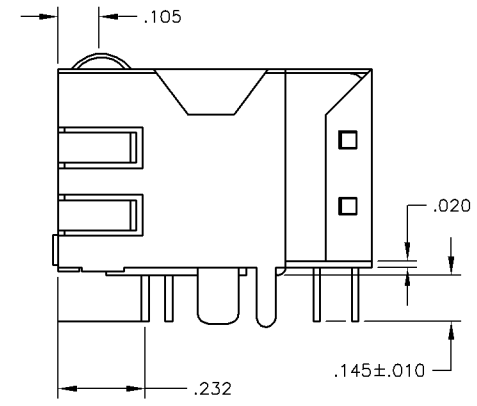
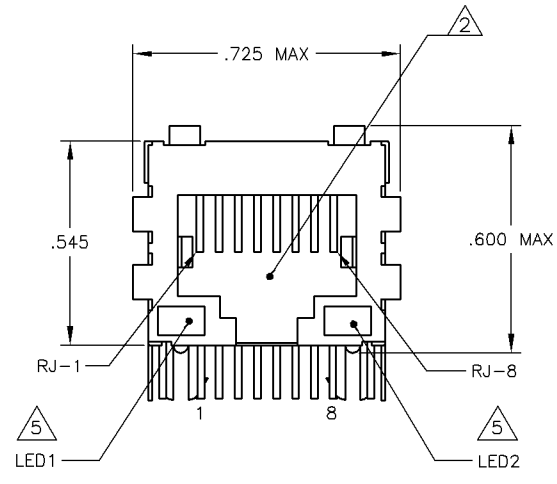
4. OPERATING TEMPERATURE: FROM -40°C TO +85°C INDUSTRIAL TEMPERATURE RATED.

LEDS WITH BUILT-IN RESISTOR
 LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
 LED COLOR : DOMINANT WAVELENGTH (AD): GREEN 568 nm TYP. @ VF=5V
 FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
 DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP. @ VF=5V
 FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V

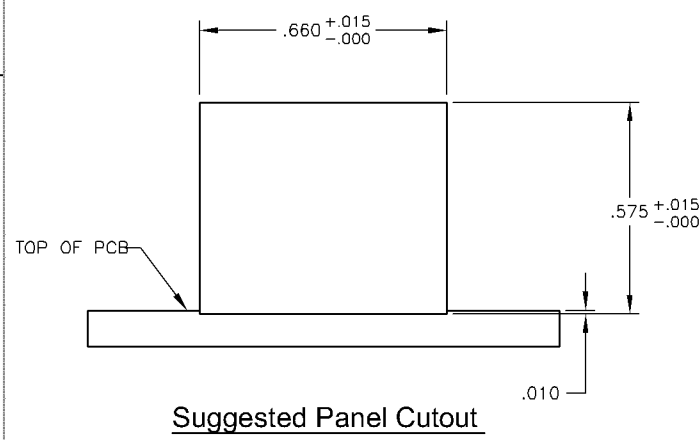
INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND THEREFORE ARE AUTO-MDI/MDIX CAPABLE.

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.

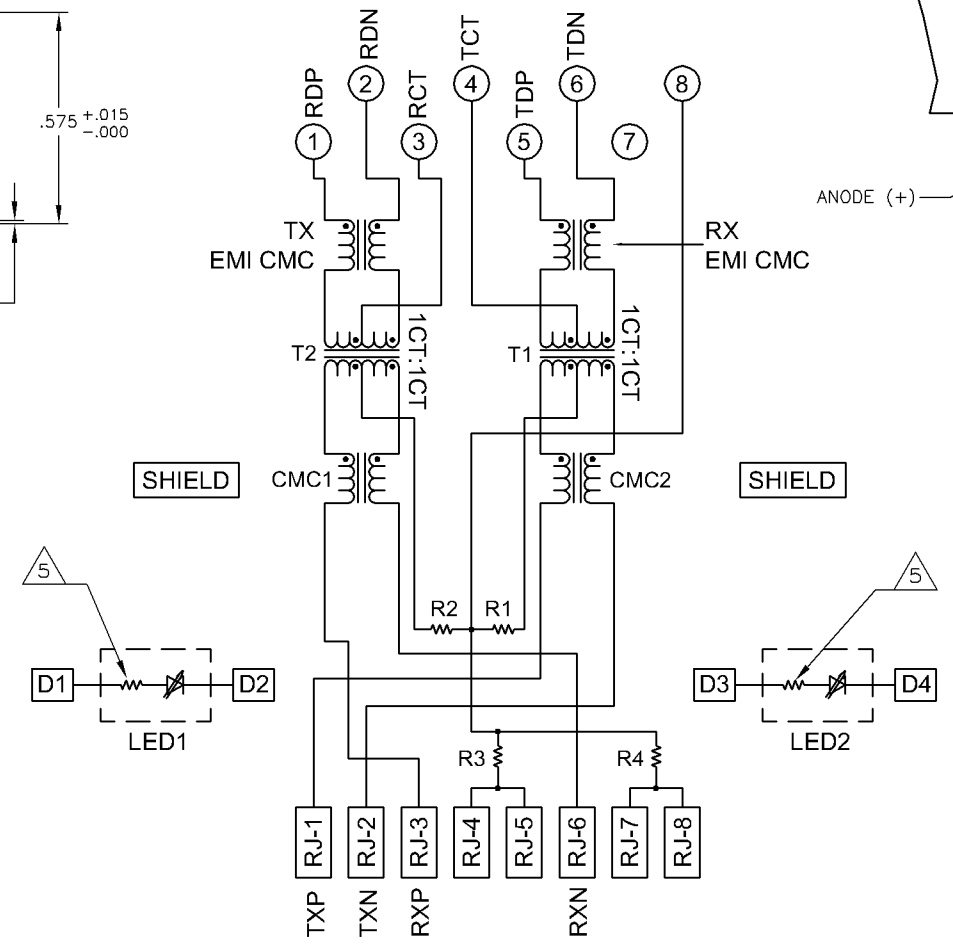


Suggested PCB Layout (Component Side)



Suggested Panel Cutout

ELECTRICAL:
 306ET SERIES MAGNETIC CIRCUIT



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN: G. ATTADIA - 07MAR2005	CHK: D. FAROLE - 07MAR2005	APD: D. FAROLE - 07MAR2005	NAME: D. FAROLE	PRODUCT SPEC: 108-2100	APPLICATION SPEC: 108-2100	SIZE: A1	DATE CODE: 00779	DRAWING NO: 6605316	RESTRICTED TO: CUSTOMER DRAWING
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MATERIAL: 1		FINISH: 1		WEIGHT: -		SCALE: NTS	
0	PLC	±	-	TYCO ELECTRONICS CORPORATION		HARRISBURG, PA 17105-3508		1X1 MAG45(TM), MODULAR JACK, SHIELDED, 4N2ET INDUSTRIAL TEMPERATURE SCHEMATIC, 306 MAGNETIC CIRCUIT, WITH RESISTOR LEADS		SHEET 1 OF 1	