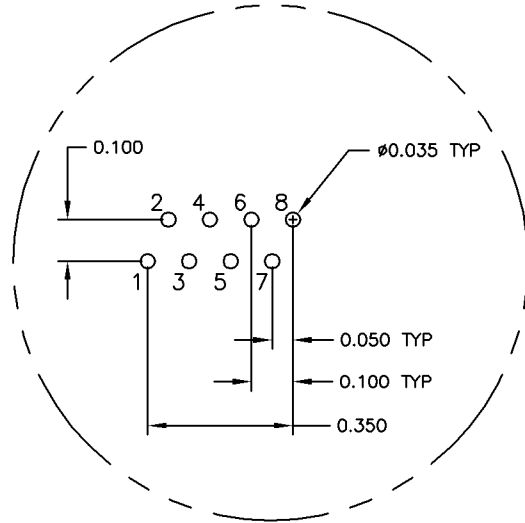
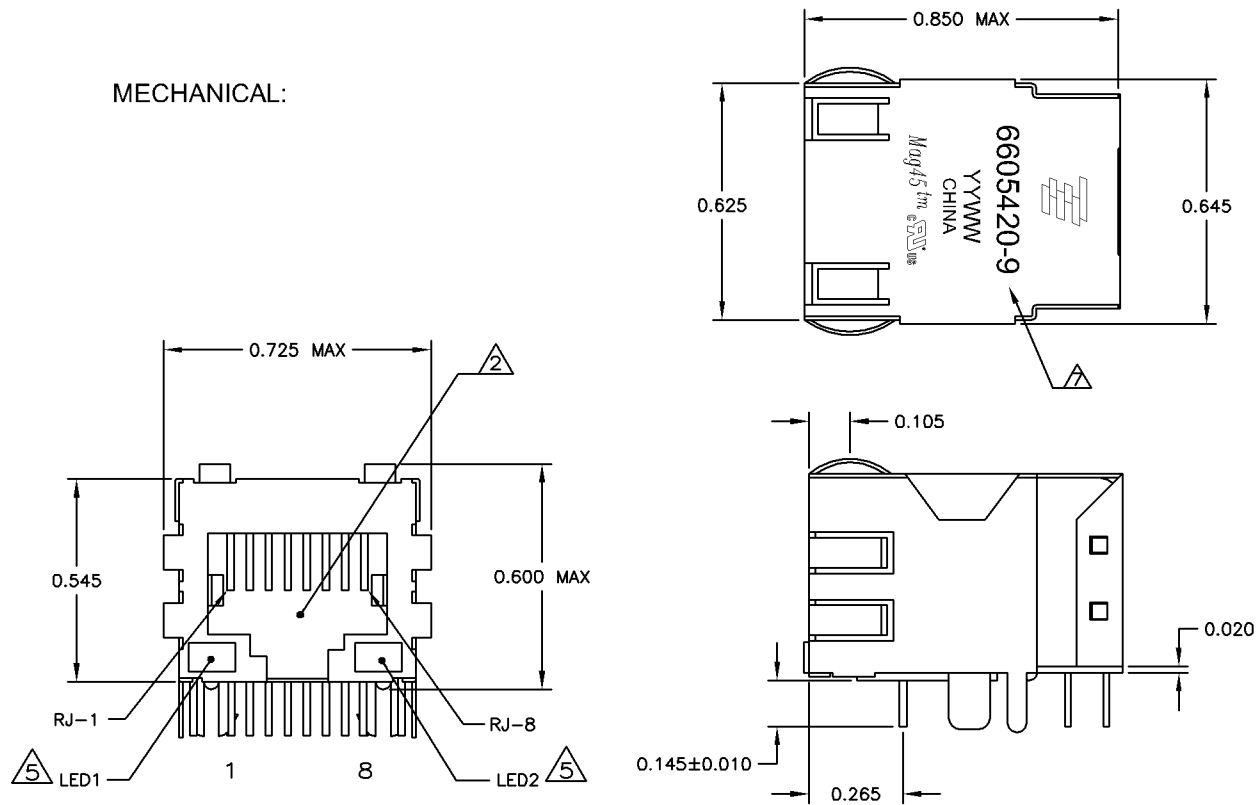


MECHANICAL:



Pin Designations

- △ 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.
SOLDERTAILS 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
-APPLICATION: 10/100 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP-CABLE): TX = 1:141, RX = 1:1
-OPEN CIRCUIT INDUCTANCE (OCL): 350μH MIN @100kHz, 0.1VRMS, 8mADC 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
33-20LOG(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 IEEE802.3af 2003, PARA 33.4.1, ITEM a

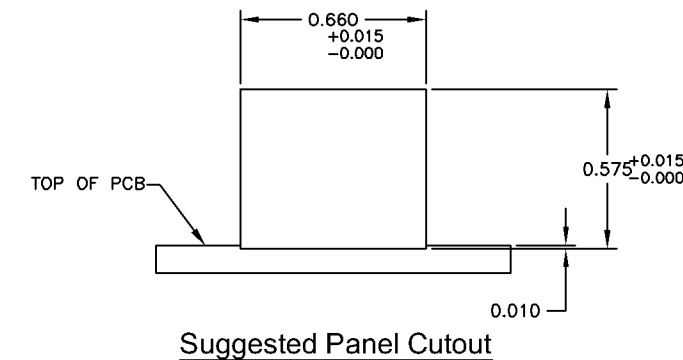
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C

- △ LEDS WITHOUT BUILT-IN RESISTOR
LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
LED COLOR: DOMINANT WAVELENGTH (λ D): GREEN 568 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
DOMINANT WAVELENGTH (λ D): YELLOW 588 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA

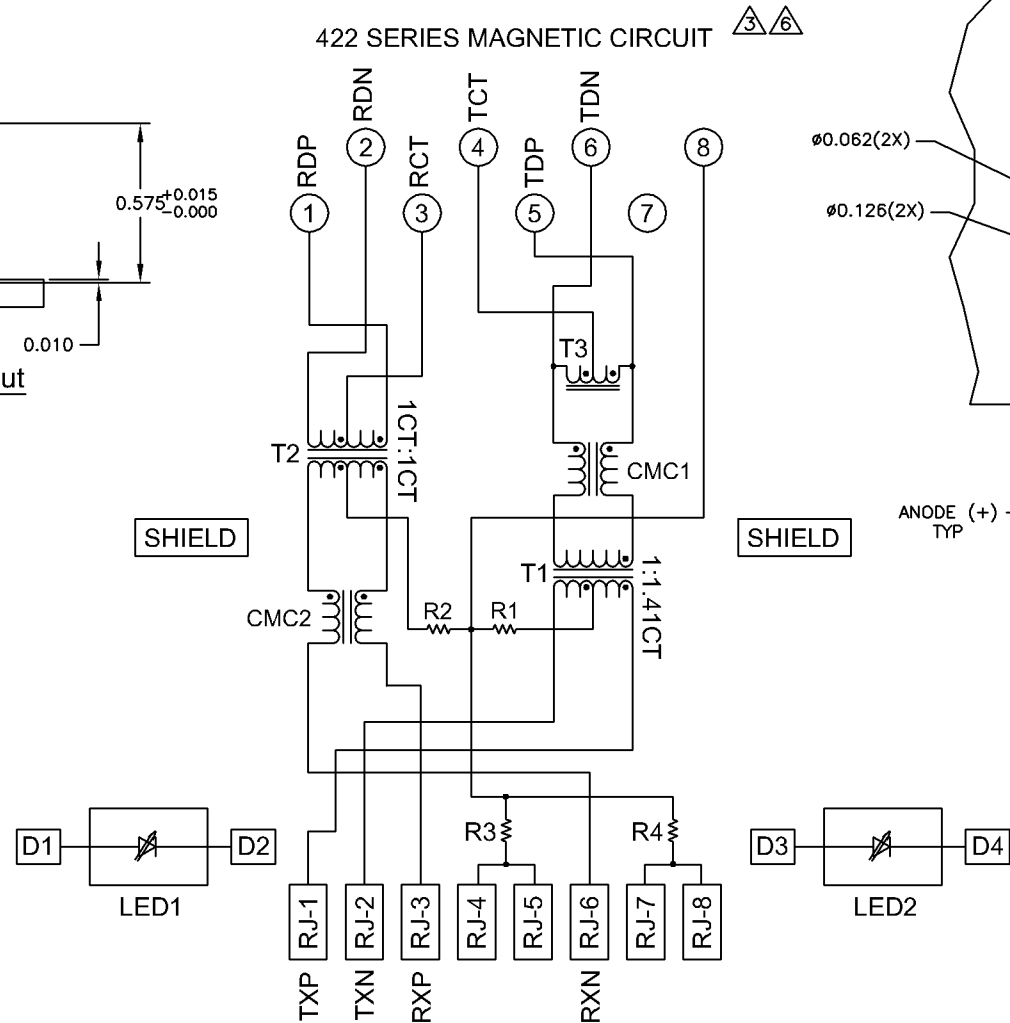
△ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRIC, AND DO NOT SUPPORT AUTO-MDI/MDIX.

△ TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

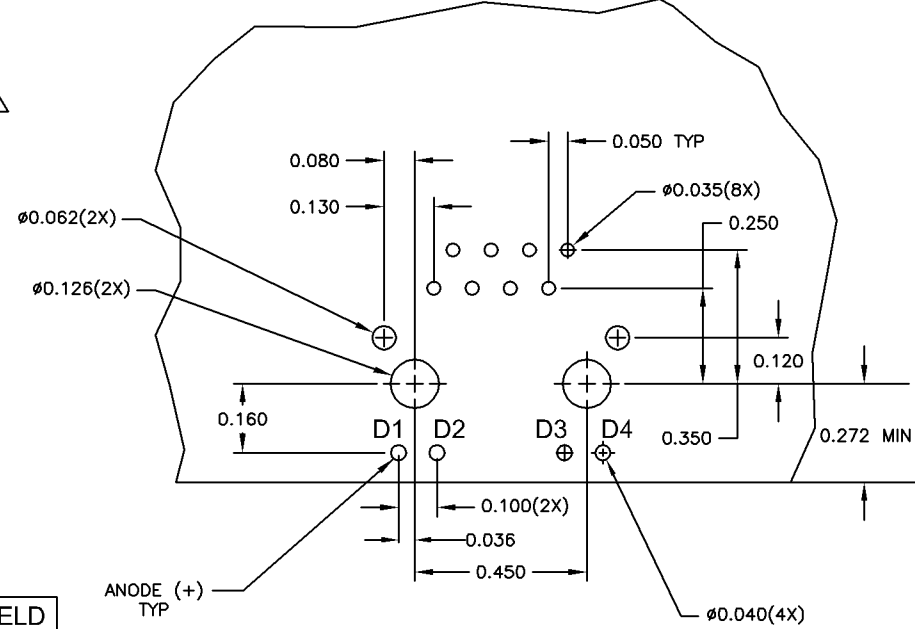
8. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C, 10SECONDS MAX.



422 SERIES MAGNETIC CIRCUIT



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



Suggested PCB Layout
(Component Side)

		YELLOW		GREEN		6605420-9	
		LED1		LED2		PART NUMBER	
THIS DRAWING IS A CONTROLLED DOCUMENT.				DWM G. ATTADIA - DOCKS DCK D. FAROLE APVD D. FAROLE		Tyco Electronics Corporation Changping,China	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME		1X1 MAG45(TM), 4N4 SCHEMATIC, 422 SERIES CIRCUIT, SHIELDED, WITH YELLOW/GREEN LEDS	
INCHES		0 PLC ± - 1 PLC ± - 2 PLC ± .010 3 PLC ± .005 4 PLC ± - ALL ANGLES ± -		PRODUCT SPEC: 108-2100			
		APPLICATION SPEC: -		SIZE		DATE CODE	
MATERIAL		FINISH		DRAWING NO		RESTRICTED TO	
				A1		00779	
CUSTOMER DRAWING				SCALE		SHEET	
				NTS		1 OF 1	
						REV B	