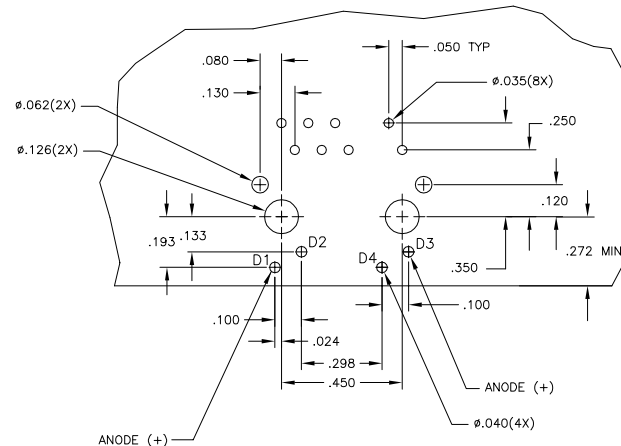
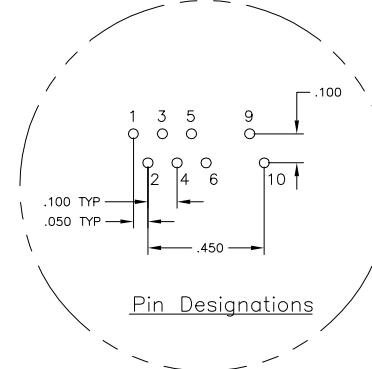
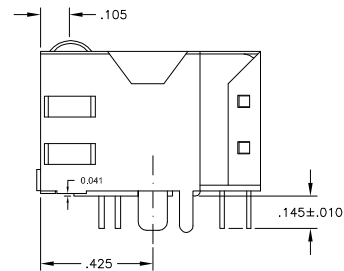
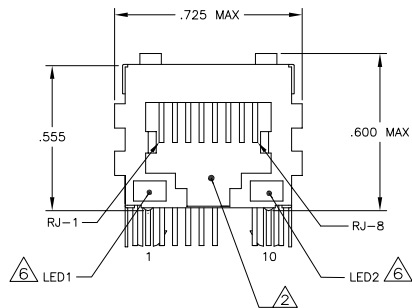




Suggested PCB Layout
(Component Side)

⚠ 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 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 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 SOLDER DIP OR PURE TIN SOLDER DIP.

2 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): 350 μ H MIN @100kHz, 0.1VRMS,
8mADC BIAS FROM 0°C TO 70°C, TX AND RX
- POE CURRENT: 350mADC MAX
- 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: 1500VAC (MAX) AT 60Hz FOR 60 SECS.

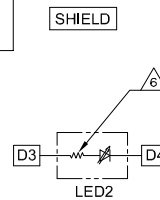
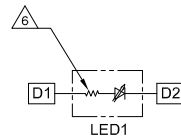
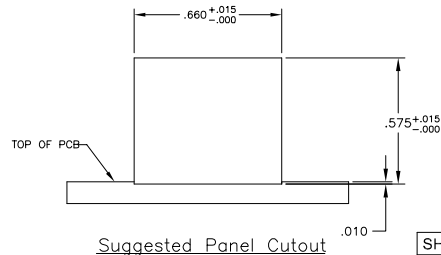
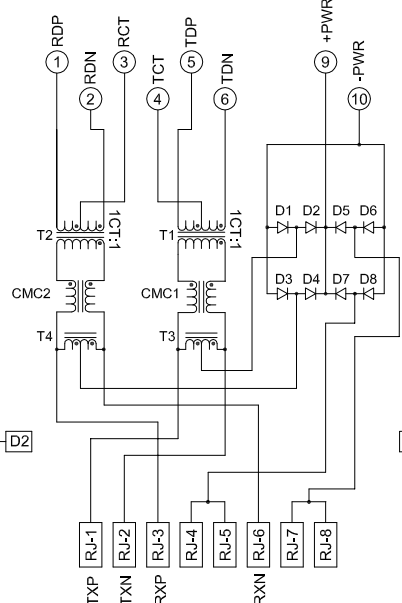
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

 INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRIC, AND SUPPORT AUTO-MDI/MDIX.

△ THE 250 OHM RESISTOR IS INCLUDED IN THE LEDS.
LEDS ARE 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 12mA TYP @ VF=5V

 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 WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.

3D15 SERIES PoE MAGNETIC CIRCUIT 

D1-D8 = RECTIFIER DIODES
FORWARD VOLTAGE, $V_f = 1.2V$ MAX @ $I_f = 0.5A$
FORWARD CURRENT, $I_f = 0.5A$ MAX
REVERSE VOLTAGE, $V_r = 80V$ MAX

GREEN	GREEN	1-6605310-1
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		0000000005 ERN G. ATTADIA - D0CK3S 0000000005 0000000005		 TE Connectivity	
DIMENSIONS: INCHES		PART: D. FAROLE OTHER:		NAME:	
		PRODUCT PRICE: 108-2100 APPLICATION SPEC:		1X1 MAG45(TM) MODULAR JACK, 4DN2 SCHEMATIC, 3015 SERIES PCB MOUNT, SHIELDED, WITH RESISTOR LEADS	
MATERIAL: 		WEIGHT: -		SIZE: A1 CASE CODE: 00779 DRAWING NO: C-6605310	
FINISH: 		CUSTOMER DRAWING		SCALE: NTC SHEET: 1 OF 1 REV: NEW	