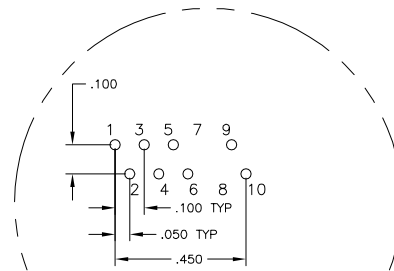
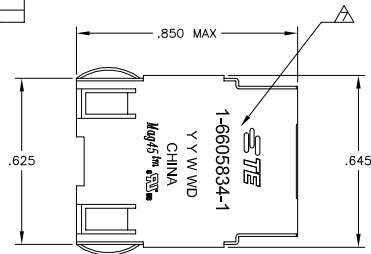
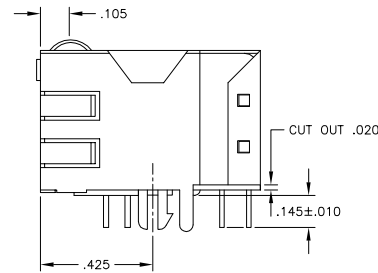
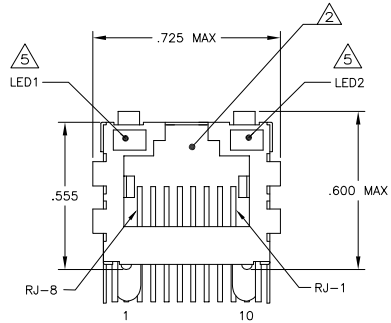


LOC	DATE	REVISIONS		
AA	22			
REV	DESCRIPTION	DATE	BY	CHK
D1	REVISED PER ECO-11-005150	21MAR11	RK	HMR
E	ECO-11-013435	30MAY2011	EL	LR

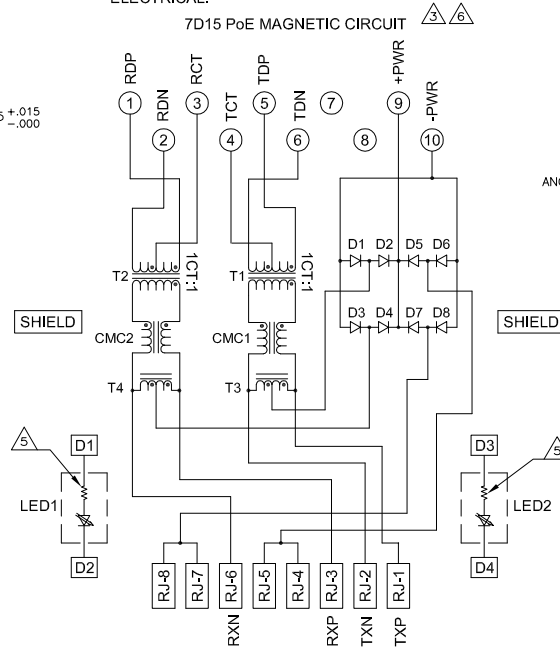
**MECHANICAL:**



**Pin Designations**



**ELECTRICAL:  
7D15 PoE MAGNETIC CIRCUIT**



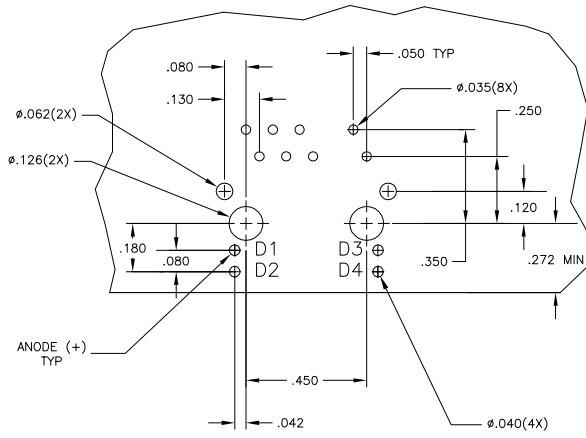
D1-D8 = RECTIFIER DIODE  
 -FORWARD VOLTAGE, Vf = 12V MAX @ If = 0.5A  
 -FORWARD CURRENT, If = 0.5A MAX  
 -REVERSE VOLTAGE, Vr = 80V MAX

- 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.
- 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): 350μH MIN @100kHz, 0.1VRMS, 8mA DC BIAS FROM 0°C TO 70°C, TX AND RX
  - POE CURRENT: 350mA DC 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
  - 33-20LOG(f/50)dB MIN FROM 4.0 MHz 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.**

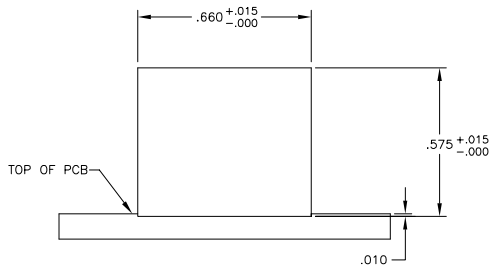
- IF THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.**
- LED COLOR : DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ Vf=5V  
 FORWARD CURRENT (If): GREEN 12 mA TYP. @ Vf=5V  
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ Vf=5V  
 FORWARD CURRENT (If): YELLOW 13 mA TYP. @ Vf=5V

- INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND ARE AUTO-MDI/MDIX CAPABLE.
- TE CONNECTIVITY LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

- THESE PARTS ARE 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.



**Suggested PCB Layout  
(Component Side)**



**Suggested Panel Cutout**

GREEN	GREEN	1-6605834-1
GREEN	YELLOW	6605834-1
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		REV: 0	DATE: 22	BY: AA	CHK: LR
DIMENSIONS: INCHES		REV: 1	DATE: 22	BY: AA	CHK: LR
MATERIAL:		REV: 2	DATE: 22	BY: AA	CHK: LR
FINISH:		REV: 3	DATE: 22	BY: AA	CHK: LR
WEIGHT: -		REV: 4	DATE: 22	BY: AA	CHK: LR
SCALE: NTS		REV: 5	DATE: 22	BY: AA	CHK: LR
SHEET 1 OF 1		REV: 6	DATE: 22	BY: AA	CHK: LR
CUSTOMER DRAWING		REV: 7	DATE: 22	BY: AA	CHK: LR