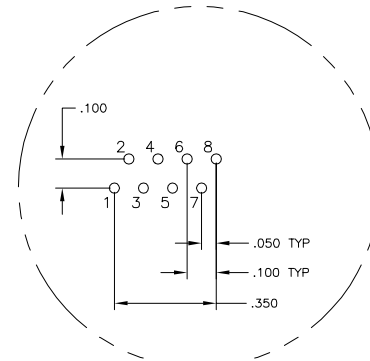
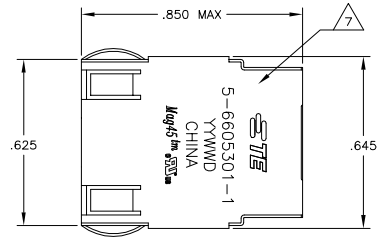
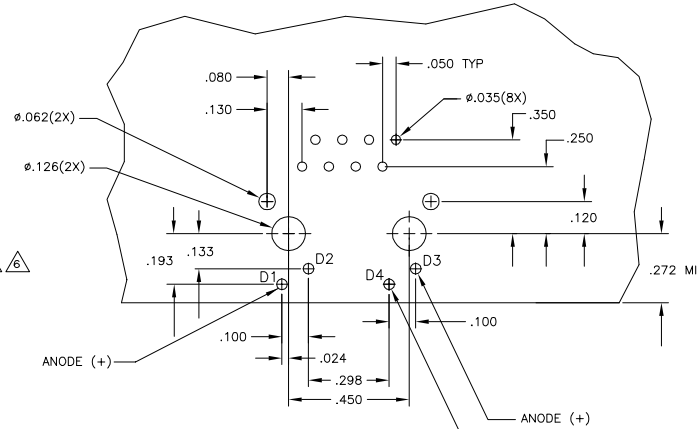
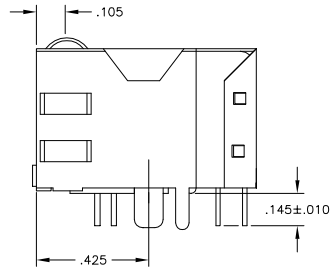
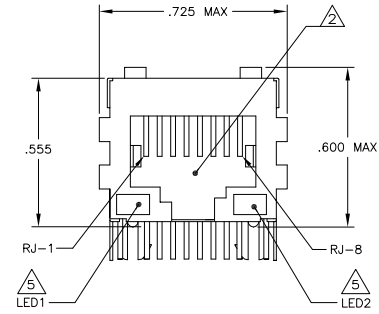


LOC	DATE	REVISIONS
AA	22	
C2		REVISED PER ECO-11-005140
D		ECO-11-015766

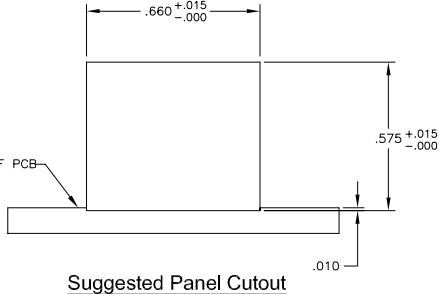
MECHANICAL:



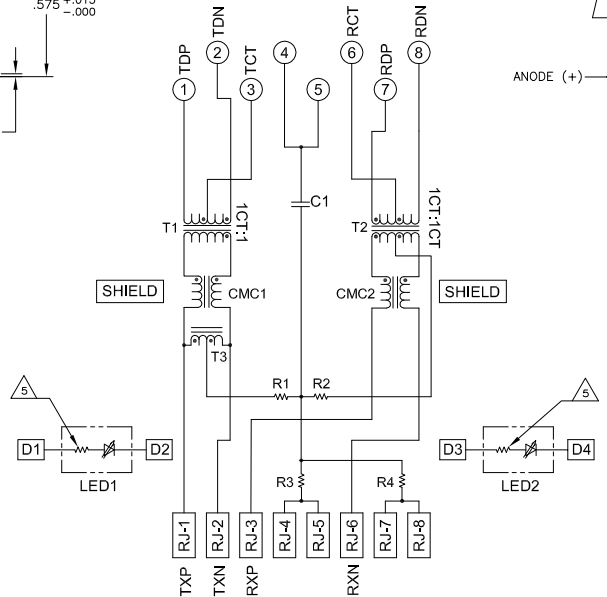
Pin Designations



Suggested PCB Layout (Component Side)



314P10 SERIES MAGNETIC CIRCUIT



C1=1000pF, 2kV CAPACITOR
R1-R4 = 75 OHMS, 1/16 W RESISTORS

- 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
 - URNS RATIO (CHIP,CABLE): TX = 11, RX = 11
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH 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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.
- OPERATING TEMPERATURE: FROM 0°C TO +70°C.

- THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 - LED COLOR: DOMINANT WAVELENGTH (AD): GREEN 568 nm TYP @ IF=20mA
 - FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20mA
 - DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ IF=20mA
 - FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20mA
- IF THE LED WITH 250 OHM RESISTORS,LED IS 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

- INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRICAL, AND DO NOT SUPPORT AUTO-MDI/MDIX.
- TE CONNECTIVITY LOGO,TE CONNECTIVITY 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 SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.

- OBsolete PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

LED1	RESISTOR	LED2	RESISTOR	PART NUMBER
GREEN	NO	YELLOW	NO	5-6605301-8
GREEN	NO	GREEN	NO	5-6605301-7
GREEN	YES	YELLOW	YES	5-6605301-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DESIGNED BY: S. ATTADIA - 00000000
 CHECKED BY: D. FAROLE - 00000000
 DRAWN BY: D. FAROLE - 00000000

DATE: 108-2100

TE Connectivity

1X1 MAG45(TM), 4N2P10 10/100 ETHERNET SCHEMATIC, 314P10 MAGNETIC CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LEADS

SIZE: A1 | DATE CODE: 100779 | DRAWING NO: C=6605301

CUSTOMER DRAWING | SCALE: 1:1 | SHEET: 1 of 1 | REV: D