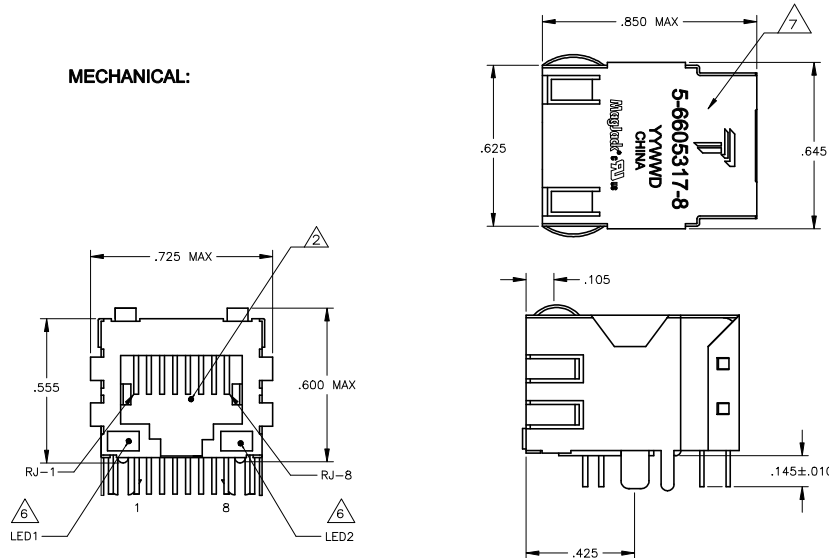


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:  
 5736910 5939955 6425781 6428361 6554638 6840817 7123117  
 7429195 7717749 7808751 6217391 6149050 7924130

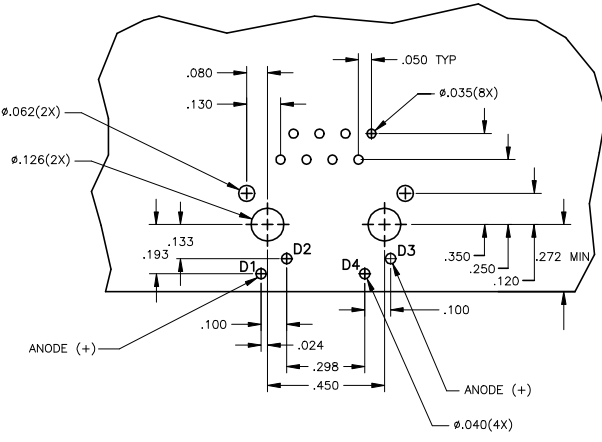
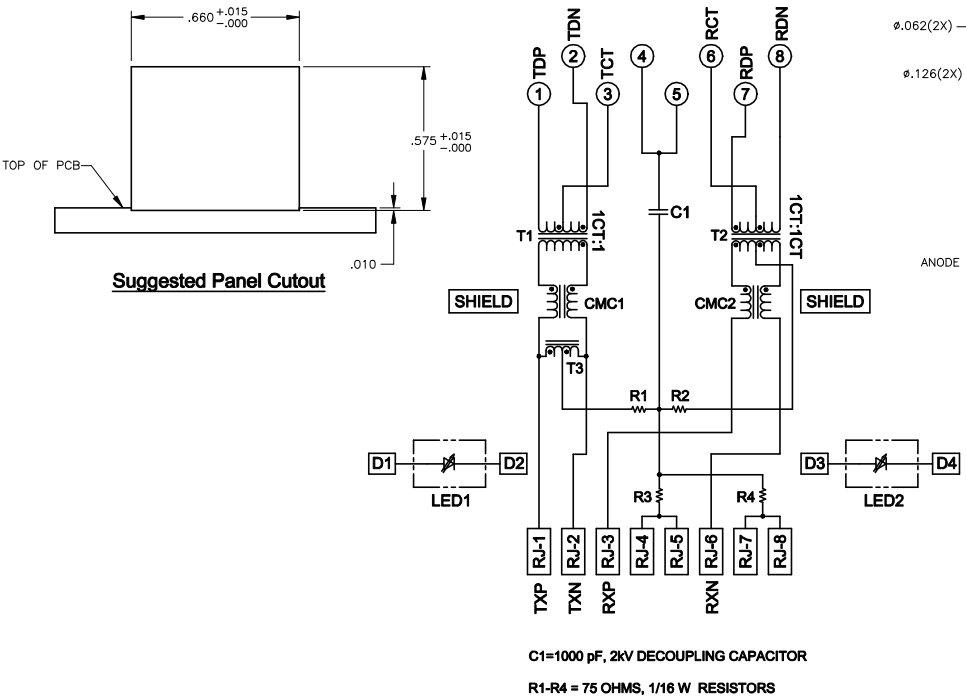
REVISIONS			
REV	DATE	DESCRIPTION	BY
E	EC-1411035	COMPANY LOGO CHANGE	23DEC2014 ST LT

**MECHANICAL:**



**Pin Designations**

**ELECTRICAL:**  
**314ETP10 SERIES MAGNETIC CIRCUIT**



**Suggested PCB Layout  
(Component Side)**

- MATERIALS:  
 HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.  
 SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μMCH SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μMCH MIN SAC SOLDER.  
 MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50μMCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50μMCH MIN HARD GOLD FINISH PLATE SOLDER TAILS WITH 100μMCH 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 80μMCH SILVER OVER 40μMCH NICKEL UNDERPLATE OVER 40μMCH COPPER UNDERPLATE. POST-PLATED WITH 100μMCH 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, 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 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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.
- OPERATING TEMPERATURE: FROM -40° TO +85°C INDUSTRIAL TEMPERATURE RATED.
- △ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRIC, AND ARE NOT AUTO-MDI/MDIX CAPABLE.
- △ LEDS WITHOUT BUILT-IN RESISTOR  
 LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA  
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA  
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA  
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20 mA  
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA  
 DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP @ IF=20 mA  
 FORWARD VOLTAGE (VF): ORANGE 2.1V TYP @ IF=20 mA
- △ TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
- 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.

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

GREEN	YELLOW	5-6605317-8
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		COMPANY LOGO	
DIMENSIONS: INCHES		DRAWING NO	
1 1/8" 314ETP10 10/100 TAB DOWN W/ LED		SCALE: NTS	
SHEET 1 OF 1		REV E	