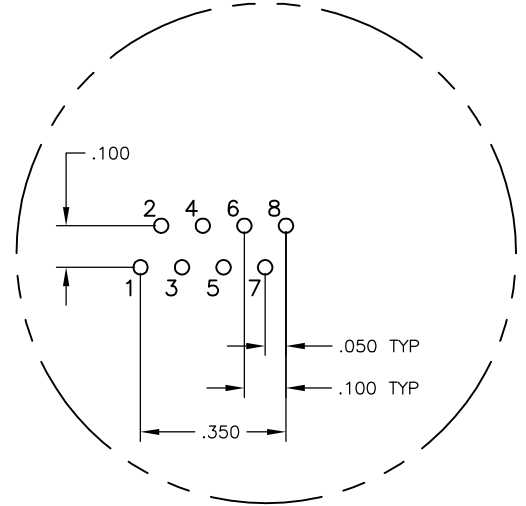
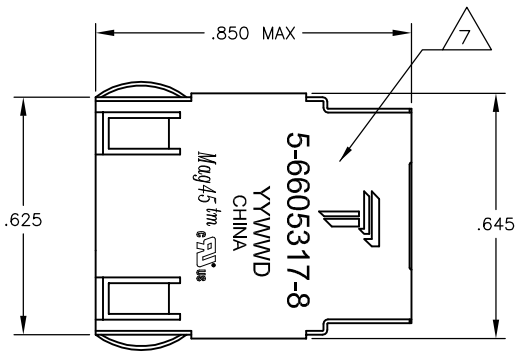
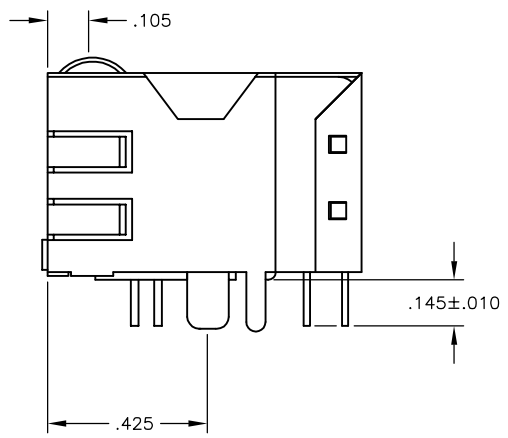
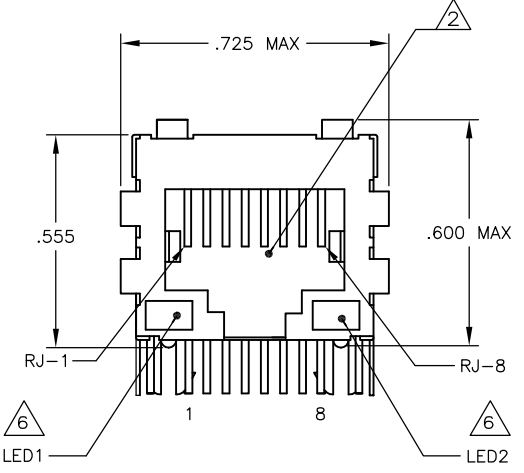


REVISIONS					
#	LR	DESCRIPTION	DATE	BY	APP'D
D		LOGO CHANGE	23APR2013	JC	KZ

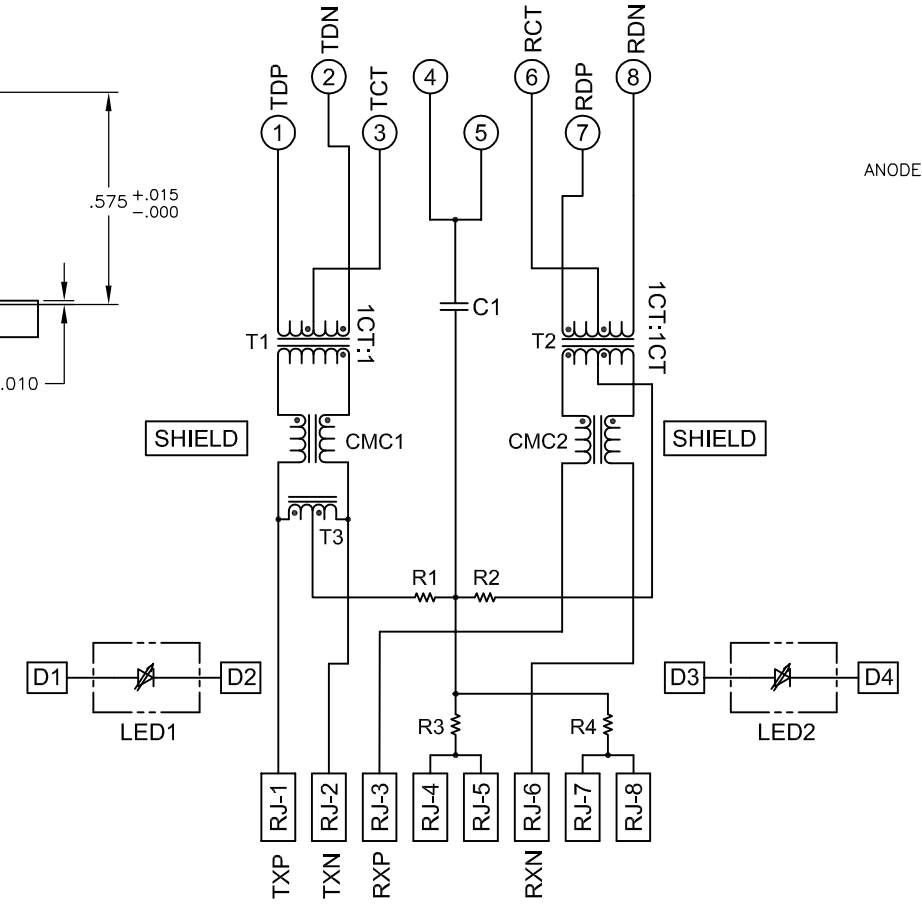
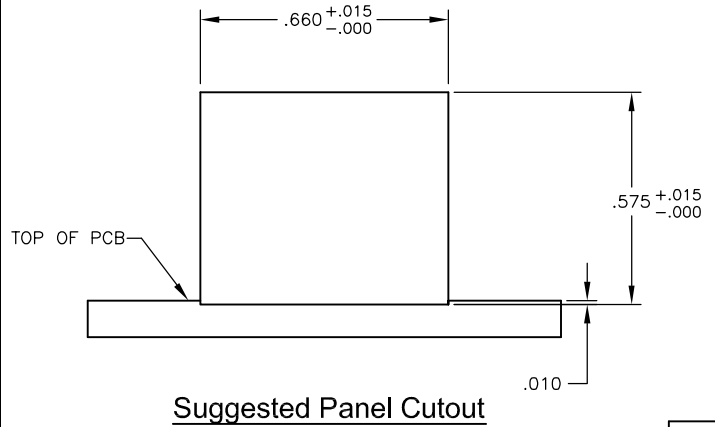
**MECHANICAL:**



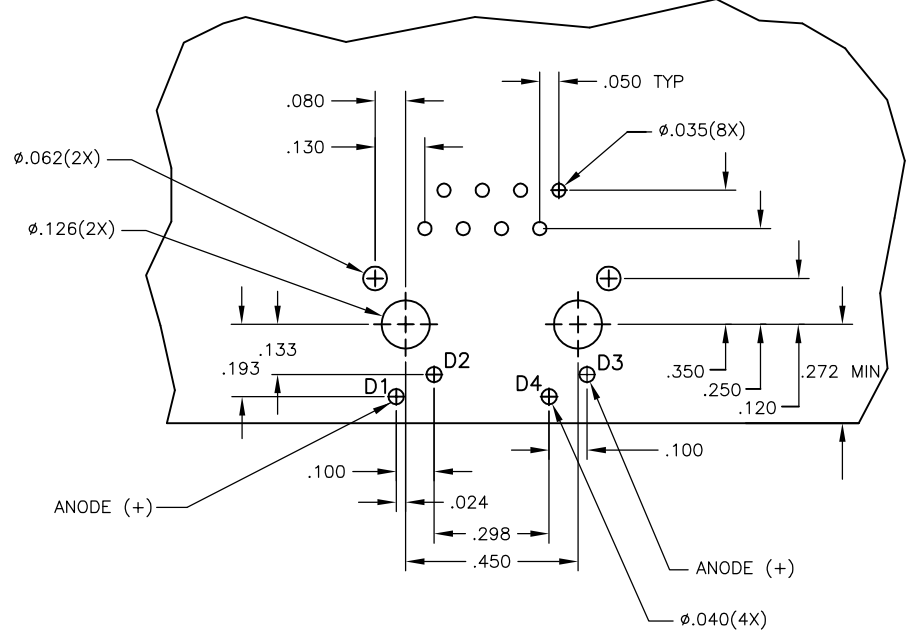
**Pin Designations**



**ELECTRICAL:**  
 314ETP10 SERIES MAGNETIC CIRCUIT



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



**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 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, 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.
- 4. 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 (AD): GREEN 568 nm TYP @ IF=20 mA  
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA  
 DOMINANT WAVELENGTH (AD): YELLOW 588 nm TYP @ IF=20 mA  
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA  
 DOMINANT WAVELENGTH (AD): 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.**
- 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.**

GREEN	YELLOW	5-6605317-8
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN: G. ATTADIA - 07MAR2005	TRP connector
DIMENSIONS: INCHES		CHK: D. FAROLE 07MAR2005	Dongguan China
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APP'D: D. FAROLE 07MAR2005	
0 PLG	± -	PRODUCT SPEC	NAME: 1X1 MAG45(TM), MODULAR JACK, 4N2P10
1 PLG	± .010	APPLICATION SPEC	INDUSTRIAL TEMP SCHEMATIC, 314ETP10 CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LEADS
2 PLG	± .005	SIZE	A1
3 PLG	± .005	SCALE	NTS
4 PLG	± .005	SHEET	1 OF 1
ANGLES	± .005	REV	D
MATERIAL	FINISH	CUSTOMER DRAWING	