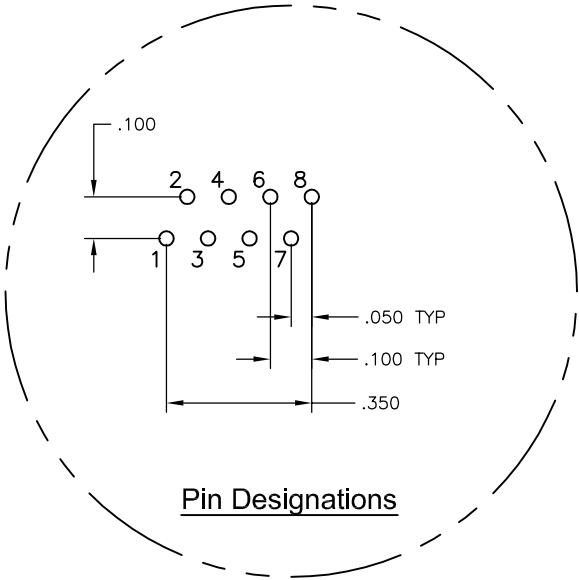
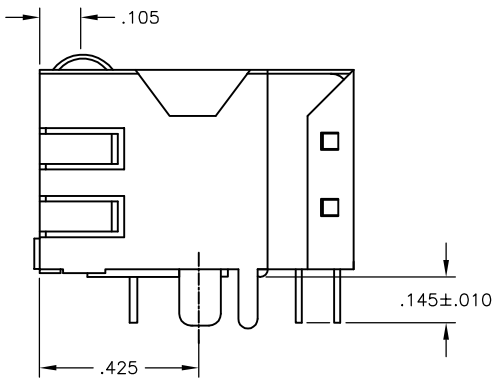
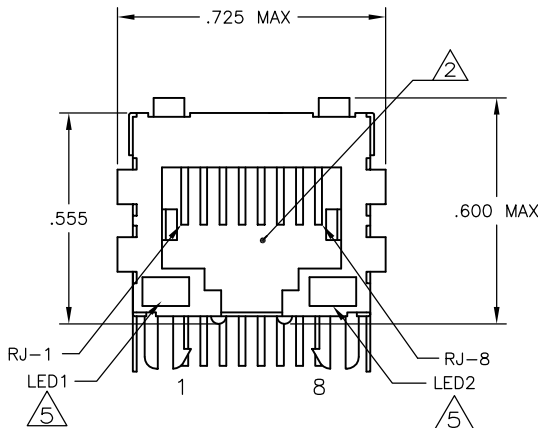
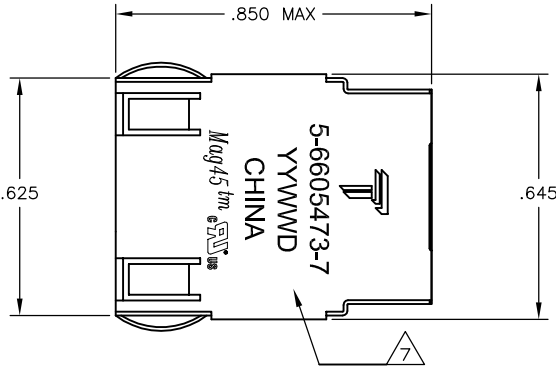
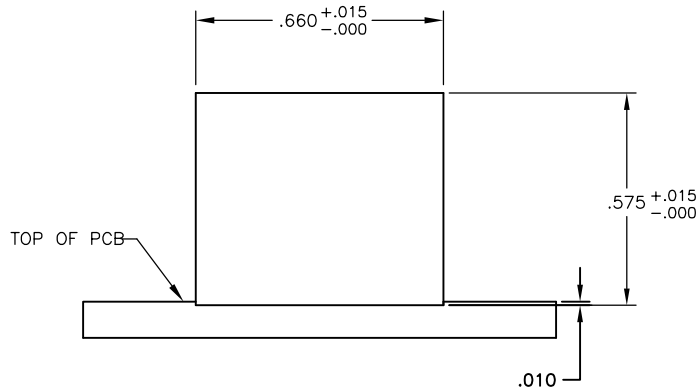


REVISIONS					
P	LTR	DESCRIPTION	DATE	OWN	APVD
	F	LOGO CHANGE	23APR2013	JC	KZ

MECHANICAL:

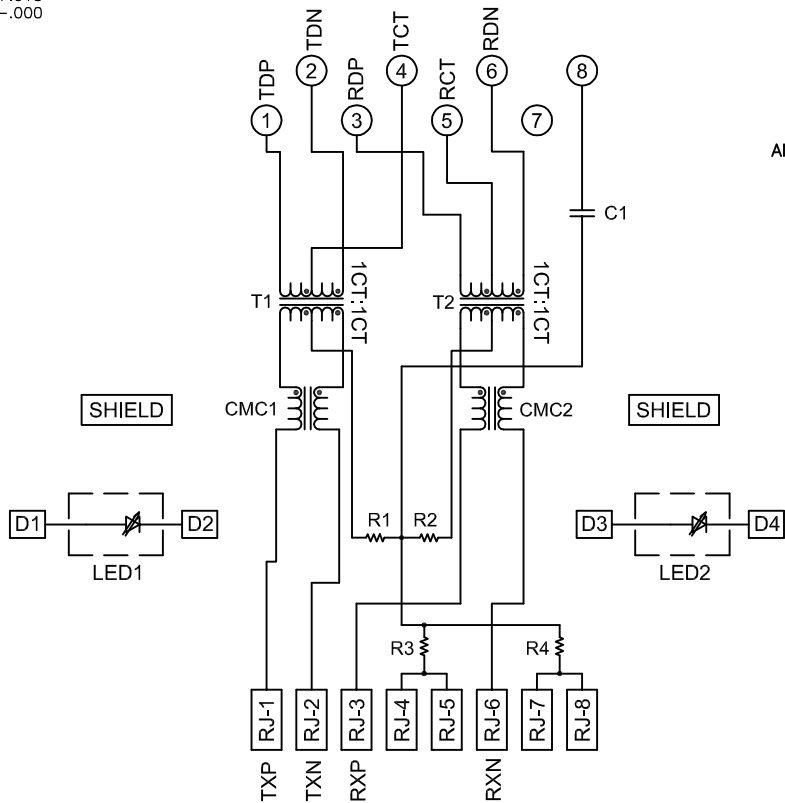


Pin Designations

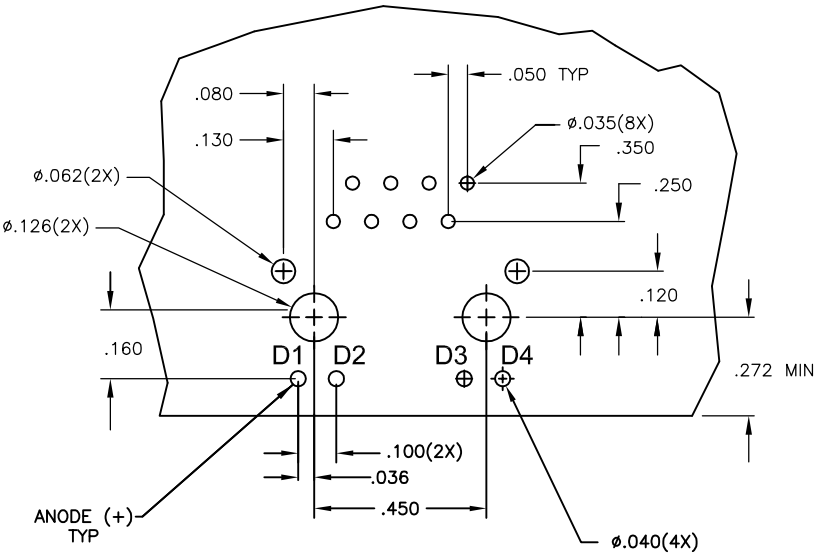


Suggested Panel Cutout

ELECTRICAL: 426P13 MAGNETIC CIRCUIT



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



Suggested PCB Layout

1. 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.
SOLDERTAILS 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.
2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
3. MAGNETICS
-APPLICATION: 10/100 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
-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 AND WITH ALL PORTS CONNECTED.
4. OPERATING TEMPERATURE: FROM 0°C - +70°C.
5. LEDs ARE 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.
6. INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND THEREFORE SUPPORT AUTO-MDI/MDIX.
7. TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
8. 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.

GREEN	GREEN	5-6605473-7
YELLOW	GREEN	6605473-9
GREEN	YELLOW	6605473-8
LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 02MAR2005 L VARELA - DOCKS CHG 02MAR2005 D FARELE AFCD 02MAR2005 D FARELE		 TRP connector Dongguan China	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC 108-2100 APPLICATION SPEC	
		0 P/LC ± - 1 P/LC ± - 2 P/LC ± .010 3 P/LC ± .005 4 P/LC ± - 5 P/LC ± - ANGLE FINISH		NAME 1X1 MAC45(TM), 4N2P13 10/100 ETHERNET SCHEMATIC, 426P13 MAGNETIC CIRCUIT, SHIELDED, DECOUPLING CAPACITOR, WITH LEDS	
MATERIAL 		WEIGHT - CUSTOMER DRAWING		SIZE A1 CASE CODE C-6605473 DRAWING NO. NTS RESTRICTED TO - SCALE 1 OF 1 SHEET 1 OF 1 REV F	