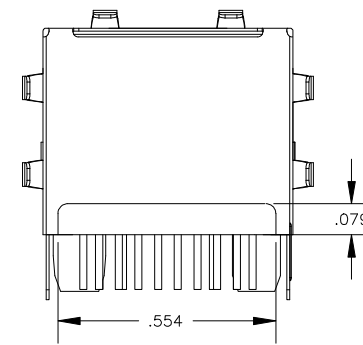
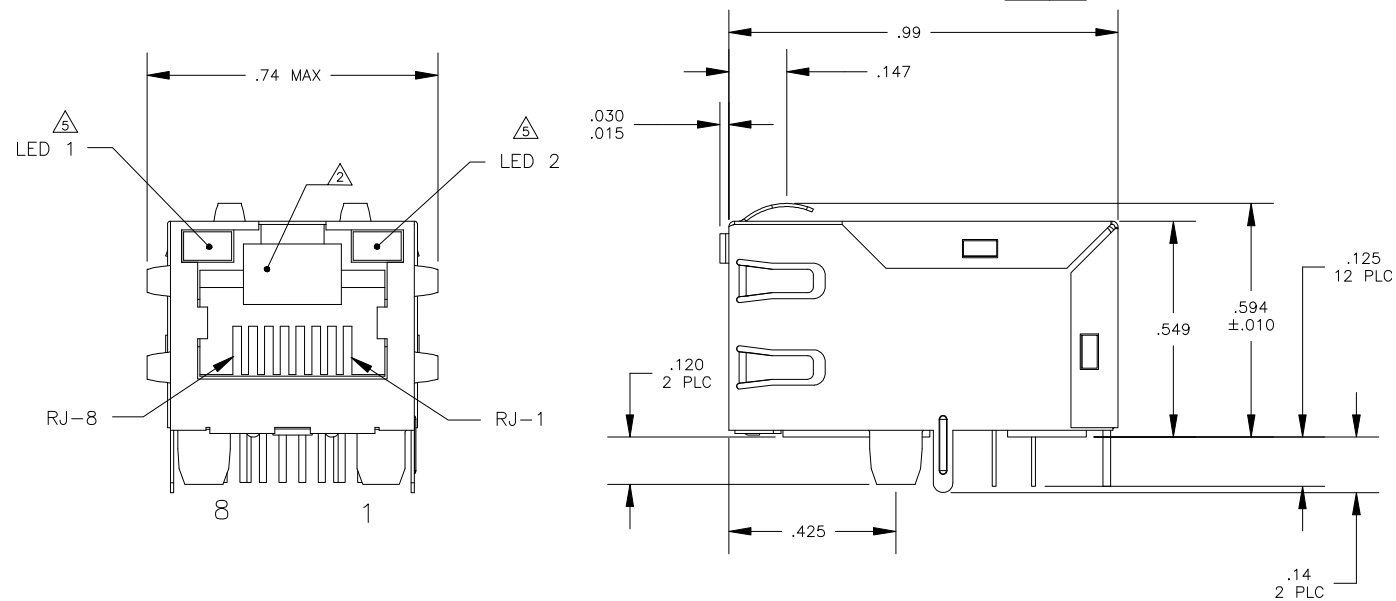
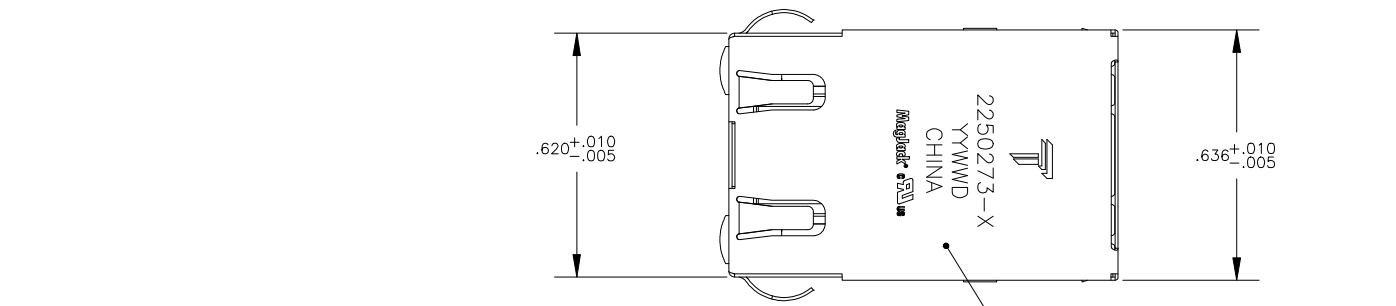


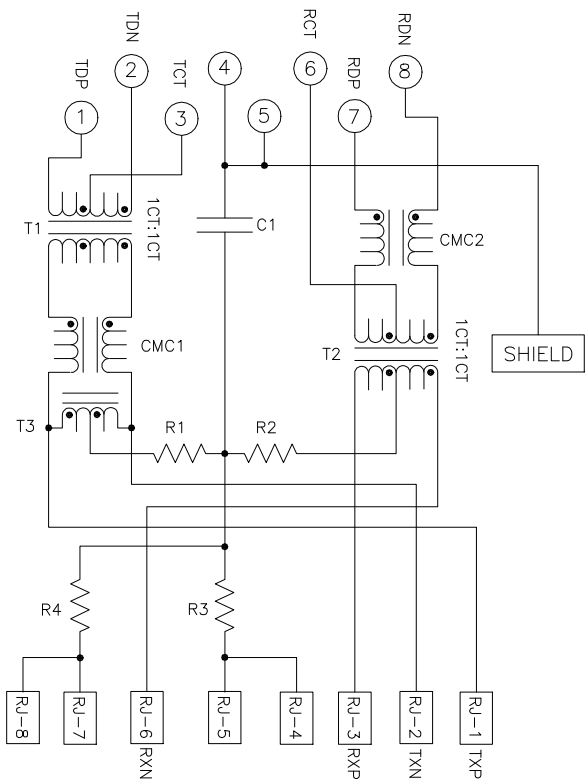
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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
 5736910 5939955 6425781 6428361 6554638 6840817 7123117
 7429195 7717749 7808751 6217391 6149050 7924130

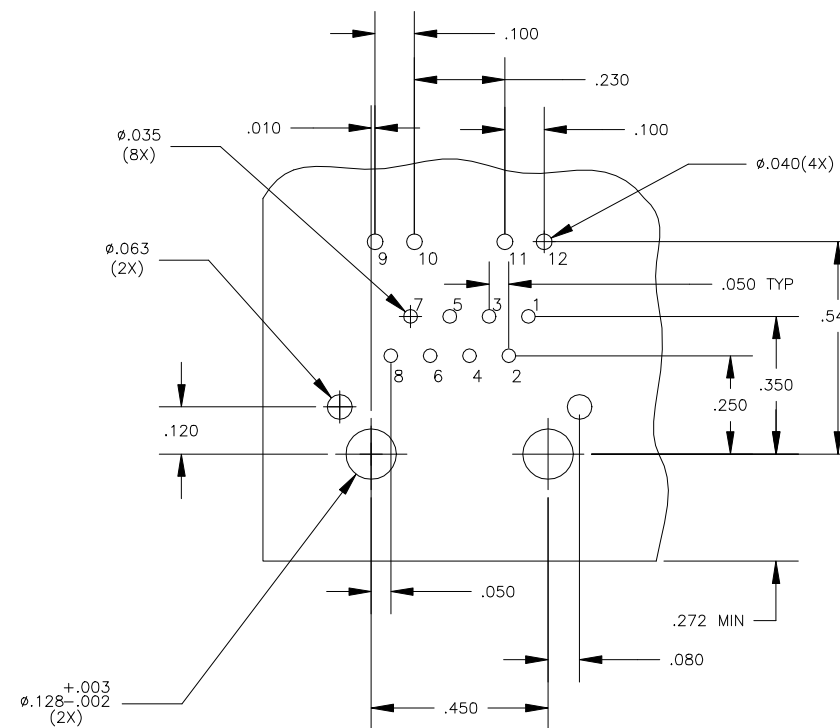
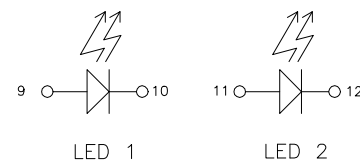
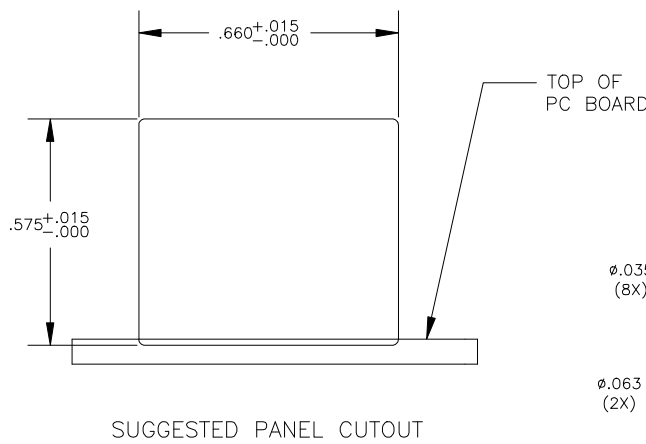
REVISIONS				
P	LTR	DESCRIPTION	DATE	BY
1		INITIAL RELEASE	08JAN2015	QL TY



784P10G MAGNETIC SCHEMATIC

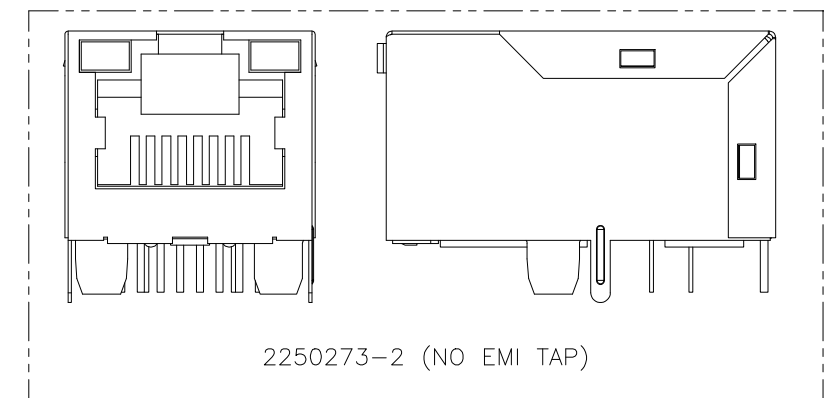


C1=1000pF, 2kV DECOUPLING CAPACITOR
 R1-R4 = 75 OHMS, 1/16 W RESISTORS



SUGGESTED PC BOARD LAYOUT
 (Component Side)

- MATERIALS:**
 HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 SHIELD - .008" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST-DIPPED WITH SAC SOLDER.
 MOD JACK CONTACTS - .0157" x .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 PREPLATED 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**
 -APPLICATION: 10/100 BASE-T
 -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 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: COMPLIES WITH IEEE802.3 2002, PARA 23.5.1.1, ITEM b.
- OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20mA.
- INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRIC, AND DO NOT SUPPORT AUTO-MDI/MDIX.
- 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 TEMPRATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.



NO	YELLOW	GREEN	2250273-2
YES	YELLOW	GREEN	2250273-1
EMI TAB	LED 1 5	LED 2 5	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 08JAN2015	BY: QUENTIN LIU
DIMENSIONS: INCHES		DATE: 08JAN2015	CHK: TONY YUAN
TOLERANCES UNLESS OTHERWISE SPECIFIED:		DATE: 08JAN2015	APP: TONY YUAN
0 PLC	± .01	MODEL NAME	MAG-JACK SINGLE
1 PLC	± .01	DESC	1X1 784P10G 10/100 TAB UP W/ LED
2 PLC	± .01	SIZE	A1
3 PLC	± .005	CAGE CODE	—
4 PLC	± .005	DRAWING NO	©=2250273
ANGLES	± .01	RESTRICTED TO	—
APPLICATION SPEC	—	CUSTOMER DRAWING	SCALE NTS SHEET 1 OF 1 REV 1