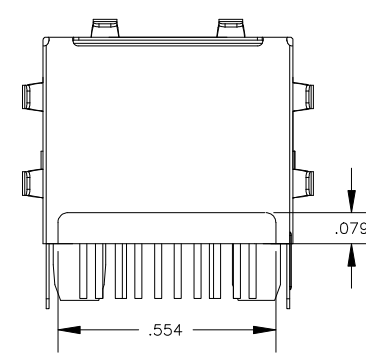
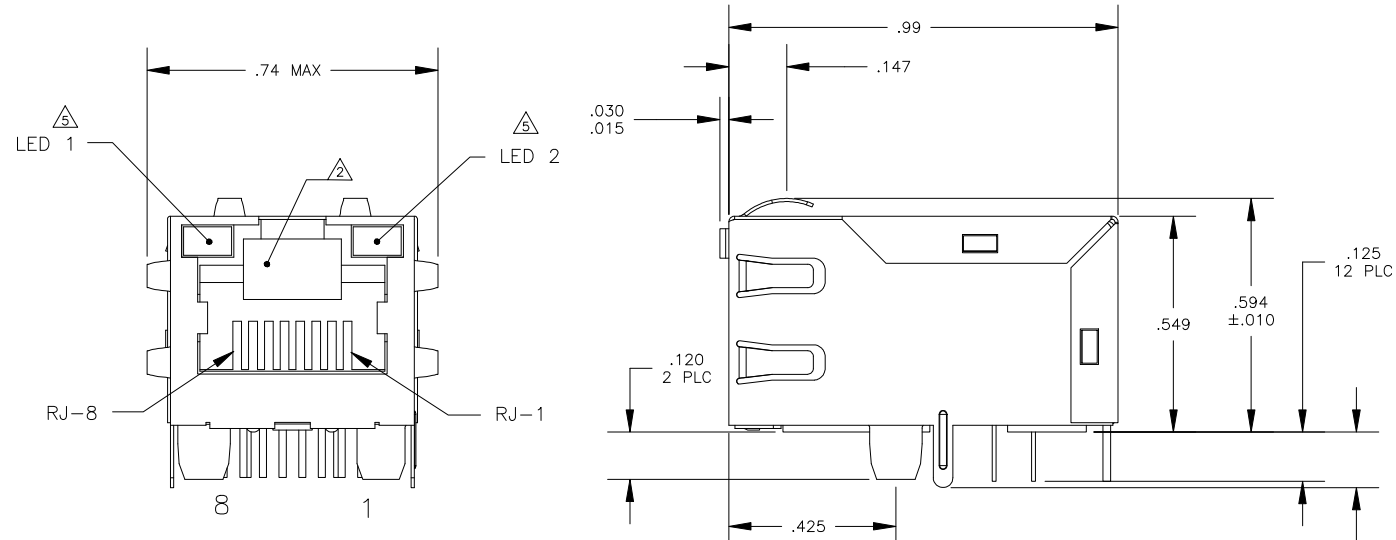
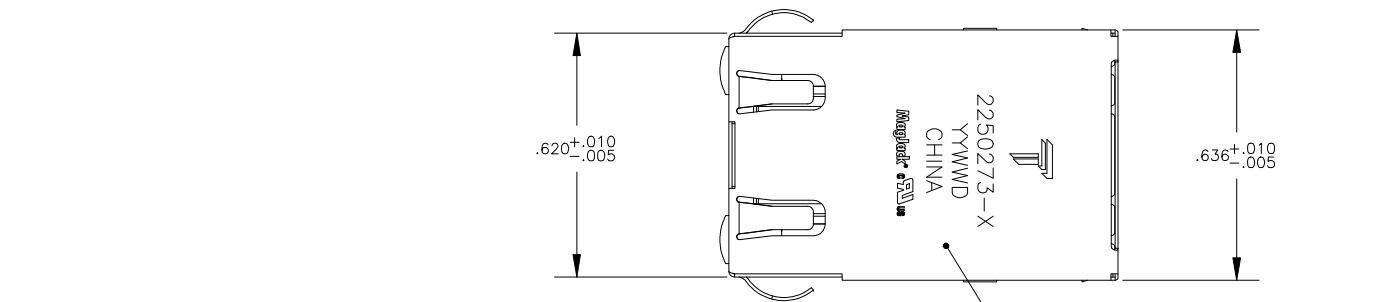


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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
 5736910 5939955 6425781 6428361 6554638 6840817 7123117
 7429195 7717749 7808751 6217391 6149050 7924130

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



- 1 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.

- 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): 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.

4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

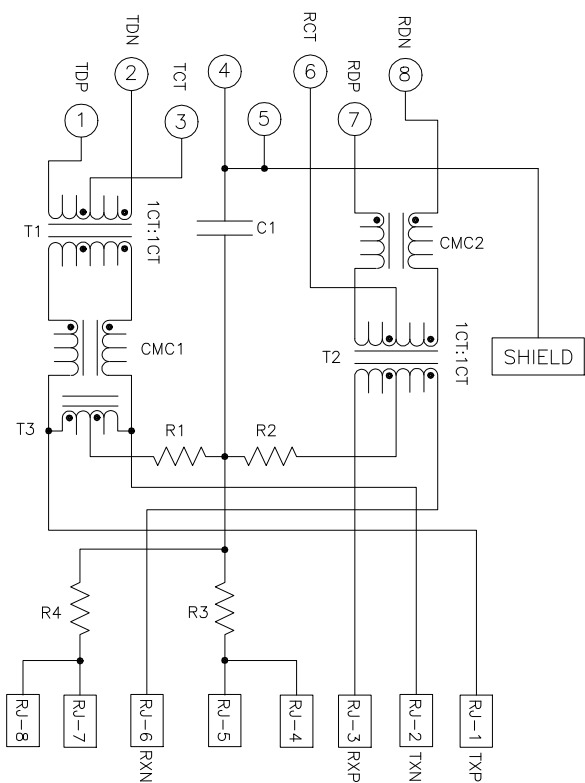
- 5 LEDs ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20mA.

- 6 INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE ASYMMETRIC, AND DO NOT SUPPORT AUTO-MDI/MDIX.

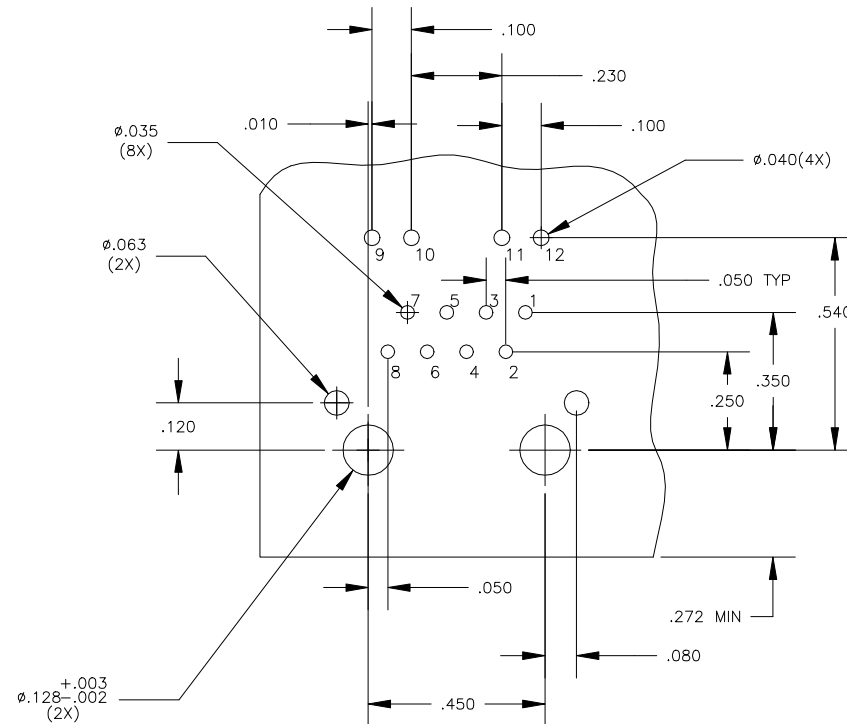
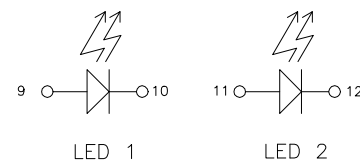
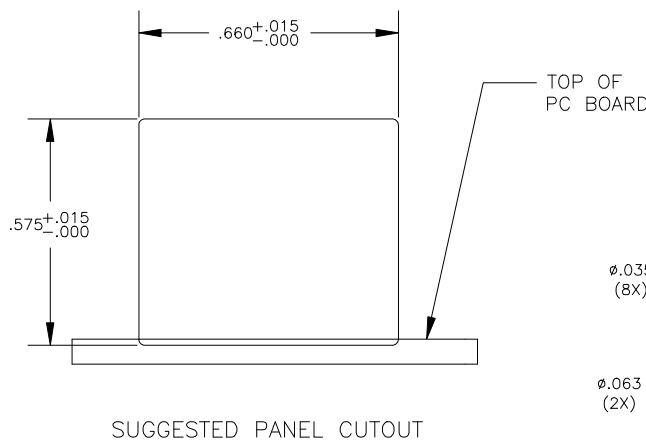
- 7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

8. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PREHEAT TEMPRATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.

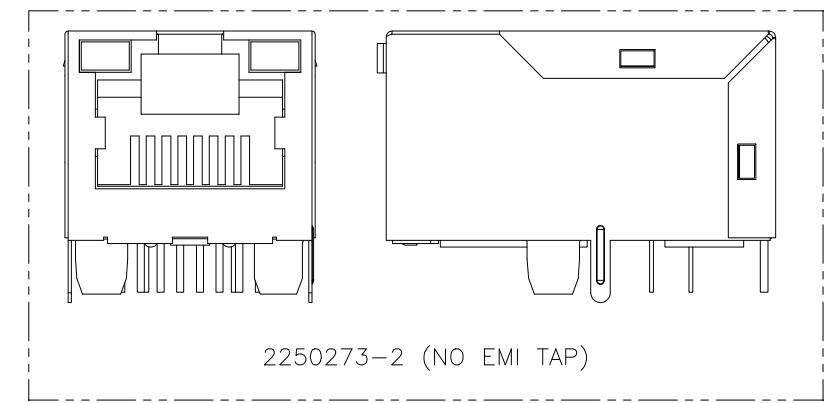
784P10G MAGNETIC SCHEMATIC



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



SUGGESTED PC BOARD LAYOUT
 (Component Side)



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.		DRW: QUENTIN LIU	08JAN2015
DIMENSIONS: INCHES		CHK: TONY YUAN	08JAN2015
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPR: TONY YUAN	08JAN2015
0 PLC	± .01	trp CONNECTOR	
1 PLC	± .01	DONGGUAN CHINA	
2 PLC	± .01	a bel group	
3 PLC	± .005	DESC: 1X1 784P10G 10/100 TAB UP W/ LED	
4 PLC	± .005	SIZE: A1	
ANGLES	± .01	CAGE CODE: -	
APPLICATION SPEC:	-	DRAWING NO: -	
PRODUCT SPEC:	-	RESTRICTED TO: -	
108-2100	-	CUSTOMER DRAWING	
		SCALE: NTS	
		SHEET: 1 OF 1	
		REV: 1	

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