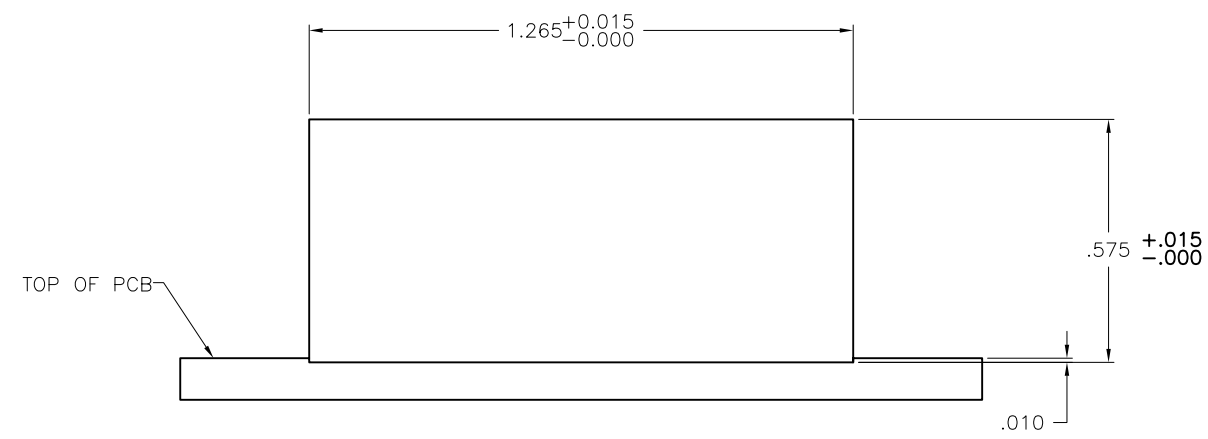
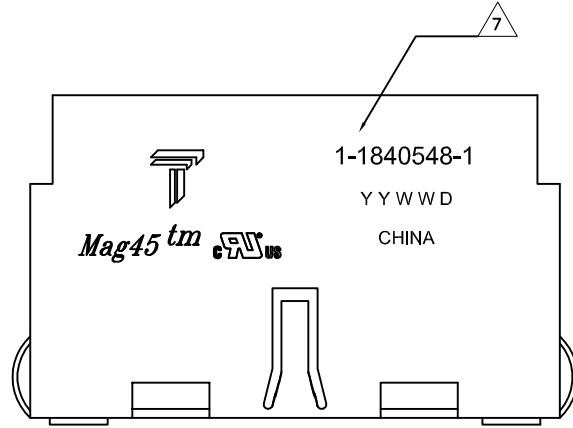


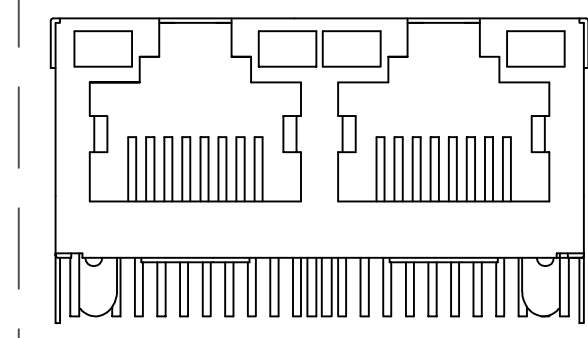
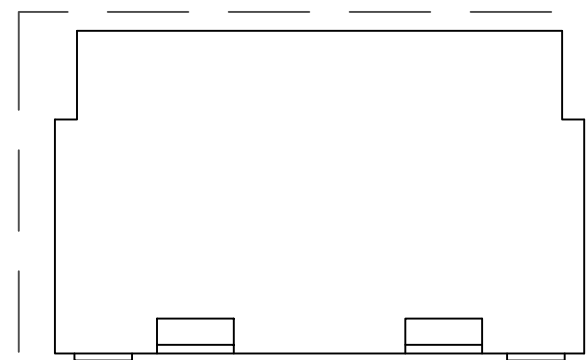
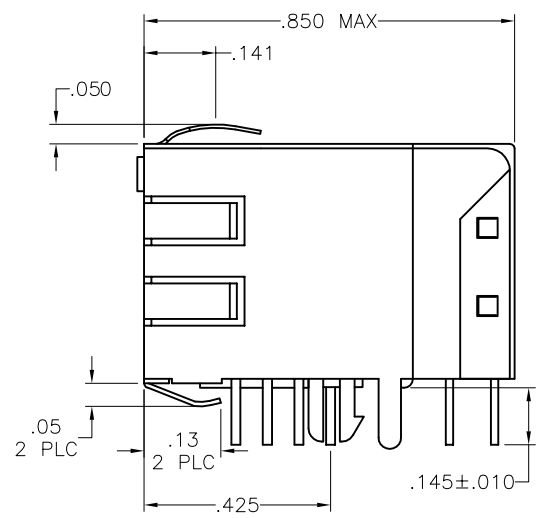
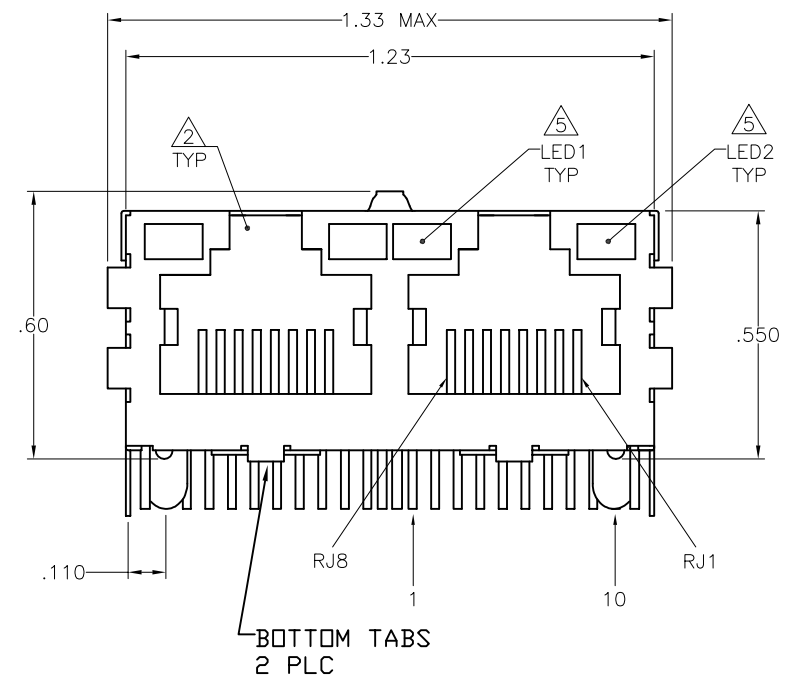
REVISIONS				
#	DATE	BY	APP'D	DESCRIPTION
F	23APR2013	JC	KZ	LOGO CHANGE

MECHANICAL:

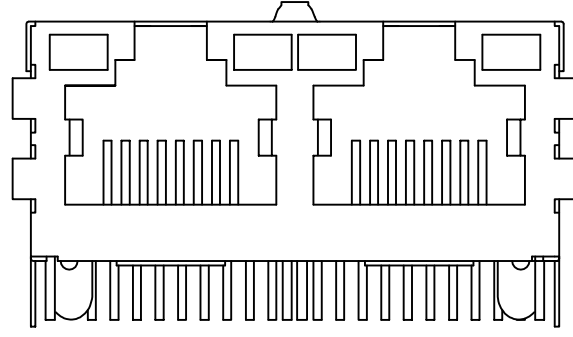


1X2 SUGGESTED PANEL CUTOUT

- △ MATERIALS:
 HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
 SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μinch MIN SEMI-BRIGHT NICKEL; SOLDER TAB POSTS DIPPED WITH 100μinch MIN 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: 10/100/1000 BASE-T
 -IMPEDANCE: 100 OHMS
 -TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 -OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
 -ALL FOUR PAIRS BI-DIRECTIONAL
 -PERFORMANCE @ 25°C:
 INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
 RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
 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.
- △ ALL DIMENSIONS NOMINAL UNLESS OTHERWISE NOTED.
- △ THE 250 OHM RESISTOR IS OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS.
 IF LEDS WITHOUT 250 OHM RESISTOR, LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
 LED COLOR: DOMINANT WAVELENGTH (λ D): GREEN 568 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
 DOMINANT WAVELENGTH (λ D): YELLOW 588 nm TYP @ IF=20 mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA
 IF LEDS WITH BUILT-IN RESISTOR, LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
 LED COLOR: DOMINANT WAVELENGTH (λ D): GREEN 568 nm TYP @ VF=5V
 FORWARD CURRENT (IF): GREEN 12mA TYP @ VF=5V
- △ INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO ACCOMMODATE CONNECTIONS FOR EITHER NIC OR HUB CONFIGURATION, OR SUPPORT AUTO-MDI/MDIX.
- △ 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 WAVE SOLDERING TEMPERATURE IS 260 °C MAX, 10 SECONDS MAX.
- 9. OPERATING TEMPERATURE: FROM 0°C TO +70°C.



FOR 2-1840548-1

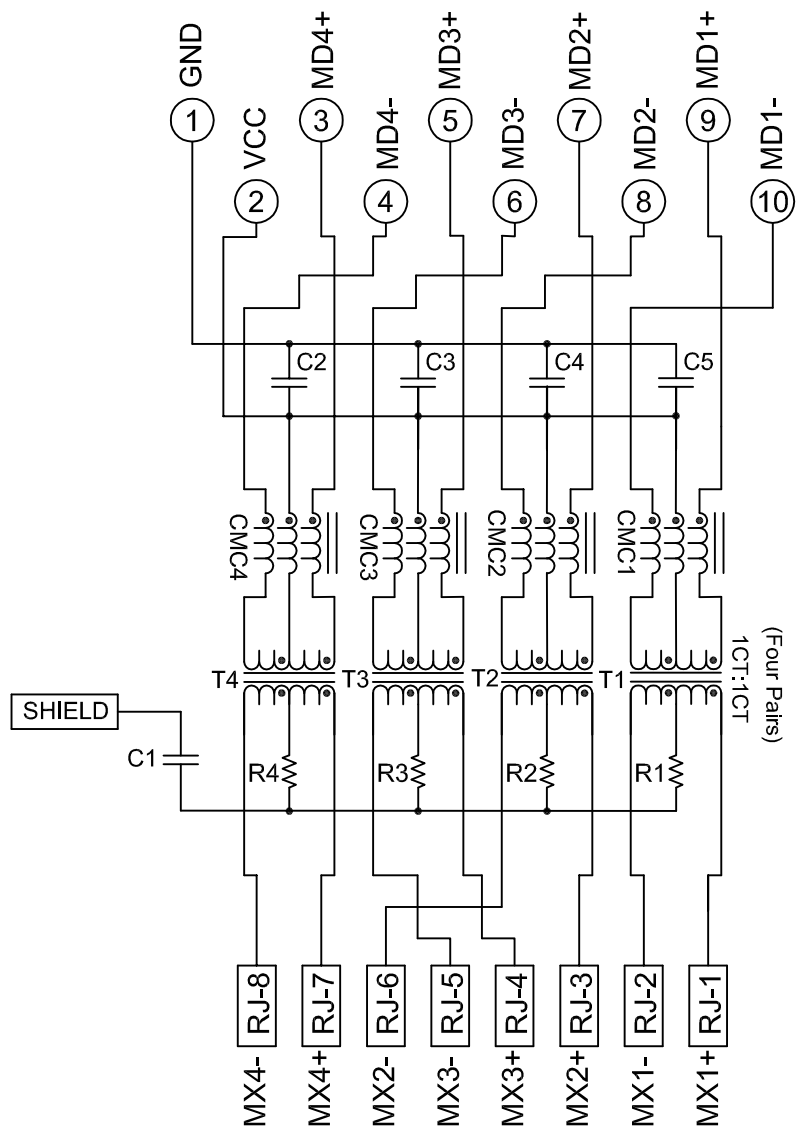


FOR 1840548-1/1840548-8

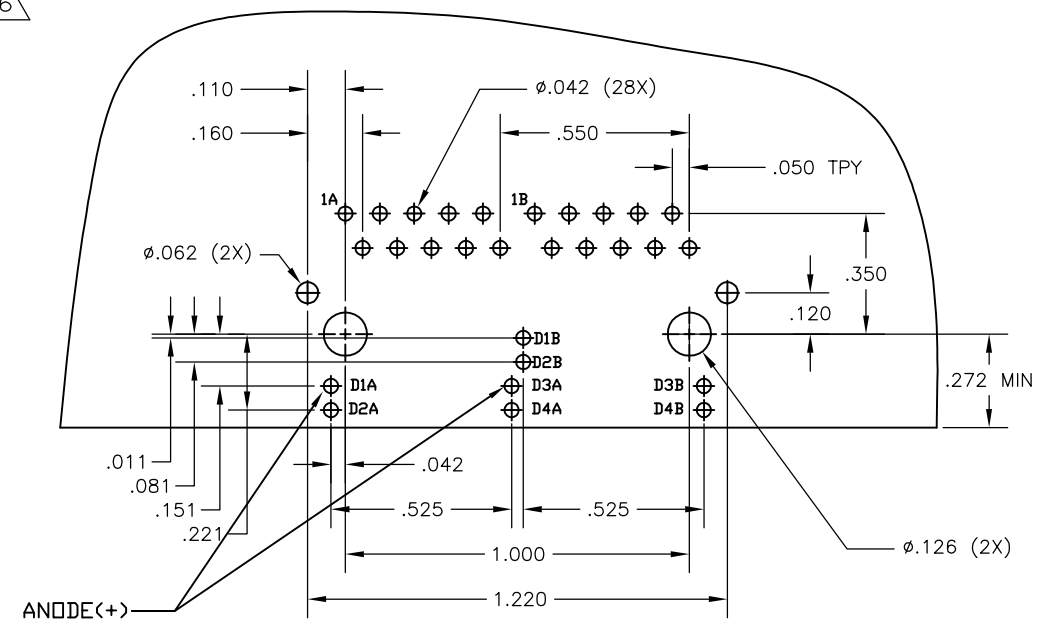
YES	NO	NO	GREEN	GREEN	2-1840548-1
YES	YES	YES	GREEN	GREEN	1-1840548-1
NO	YES	NO	GREEN	YELLOW	1840548-8
NO	YES	NO	GREEN	GREEN	1840548-1
250 OHM RESISTOR	SIDE TABS AND TOP TAB	BOTTOM TABS	LED1	LED2	PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN RANDY QU 11MAR2008	TRP connector Dongguan China		
DIMENSIONS: INCHES		CHK RAO LUJUN 11MAR2008	PRODUCT SPEC 108-2100		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APP'D TEDDY XIONG 11MAR2008	APPLICATION SPEC		
0 PLC ± -	1 PLC ± .010	NAME 1X2 MAG45(TM) MODULAR JACK 7G46P5 GIGABIT CIRCUIT SHIELDED, WITH LEDS			
2 PLC ± .005	3 PLC ± .005	SIZE CASE CODE DRAWING NO			
4 PLC ± -	ANGLES ± -	MATERIAL FINISH WEIGHT			
MATERIAL FINISH		A1		C-1840548	
CUSTOMER DRAWING		SCALE 1:1		SHEET 1 OF 2 REV F	

REVISIONS				
#	REV	DESCRIPTION	DATE	APPD
-	-	-	-	-

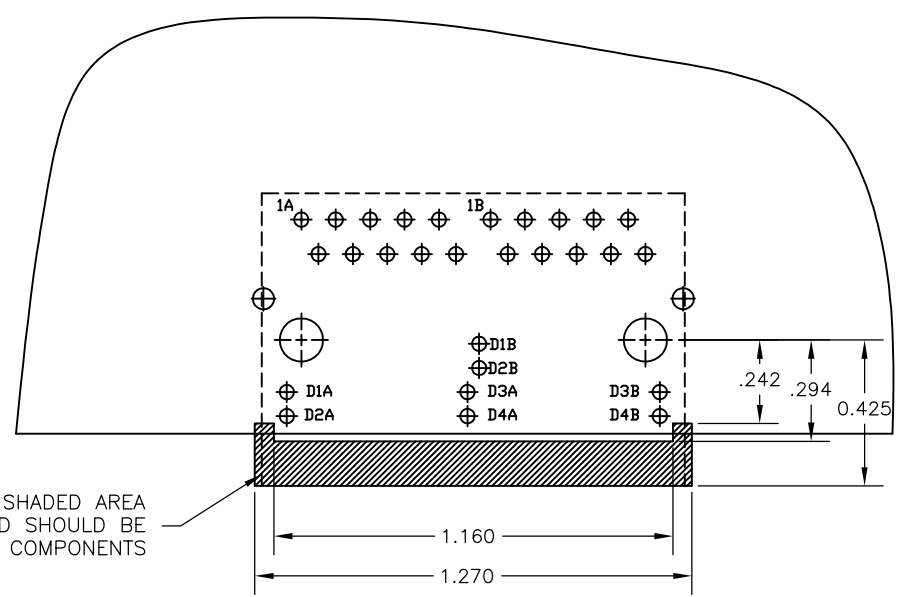
7G46P5 GIGABIT CIRCUIT 3 6



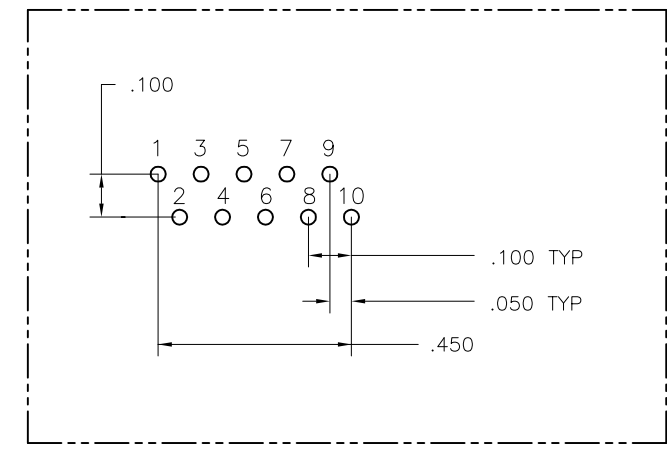
C1=1000pF, 2kV DECOUPLING CAPACITOR
 C2-C5= 0.1uF, 10%, 50V, X7R CAPACITORS
 R1-R4= 75 OHMS, 1/16W,5% RESISTORS



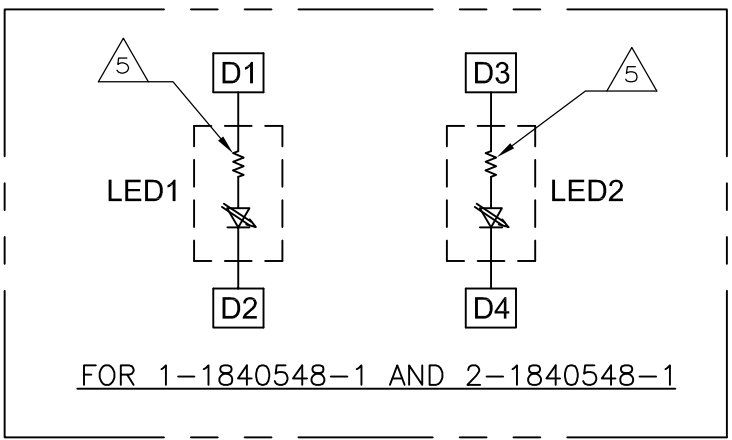
SUGGESTED PCB LAYOUT
 (Component Side)



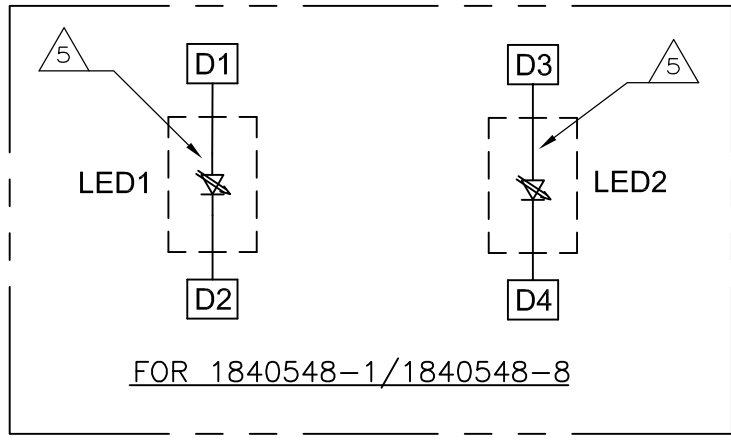
SUGGESTED PCB KEEP OUT AREA
 (Component Side)



PIN DESIGNATIONS
 (APPLIES TO ALL PORTS)



FOR 1-1840548-1 AND 2-1840548-1



FOR 1840548-1/1840548-8

THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 11MAR2008	 TRP connector Dongguan China
DRAWN BY: RANDY QU		APPD: 11MAR2008	
CHECKED BY: RAO LIJUN		DATE: 11MAR2008	NAME: 1X2 MAG45(TM) MODULAR JACK 7G46P5 GIGABIT CIRCUIT SHIELDED, WITH LEDs
DRAWN BY: TEDDY XIONG		DATE: 11MAR2008	
PRODUCT SPEC: 108-2100		APPLICATION SPEC: -	SIZE: A1 CAGE CODE: - DRAWING NO: C=1840548 RESTRICTED TO: -
MATERIAL: -		FINISH: -	
CUSTOMER DRAWING		SCALE: 1:1	SHEET: 2 OF 2