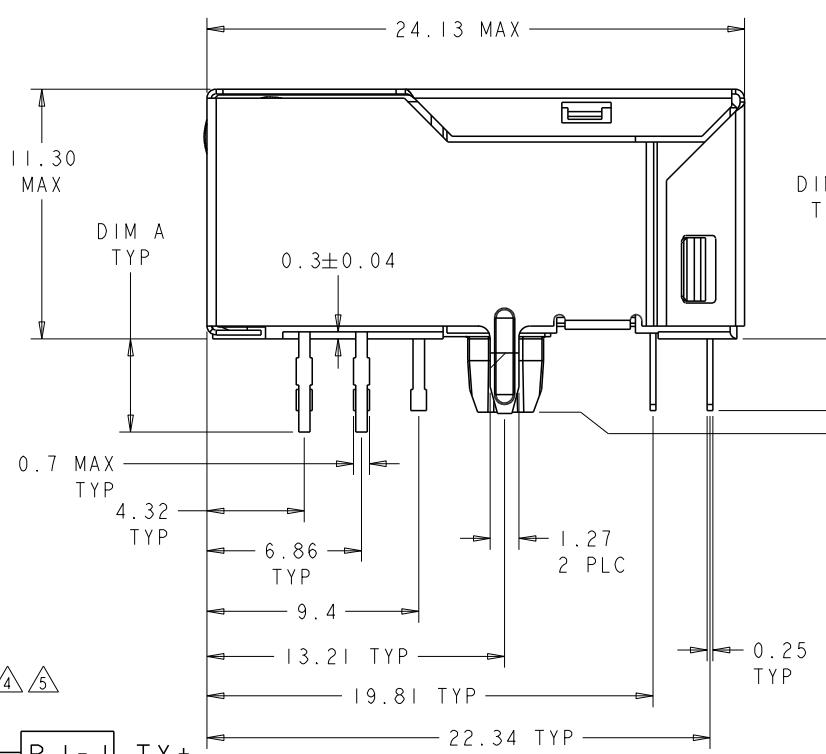
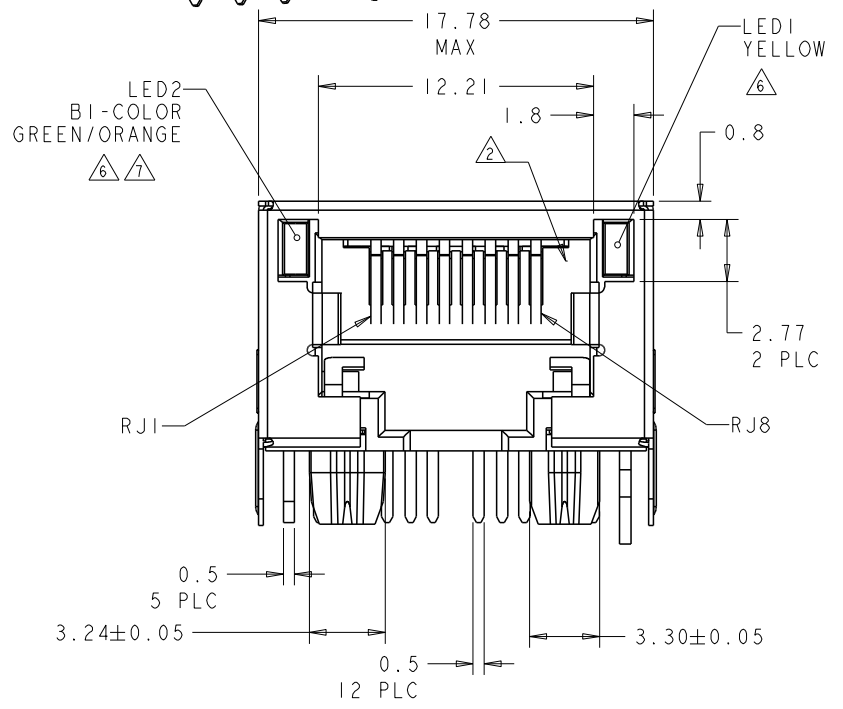
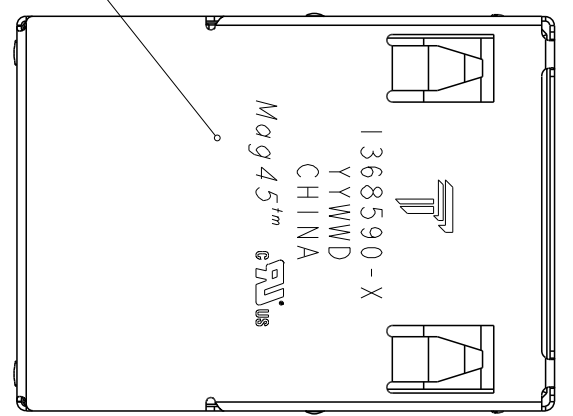
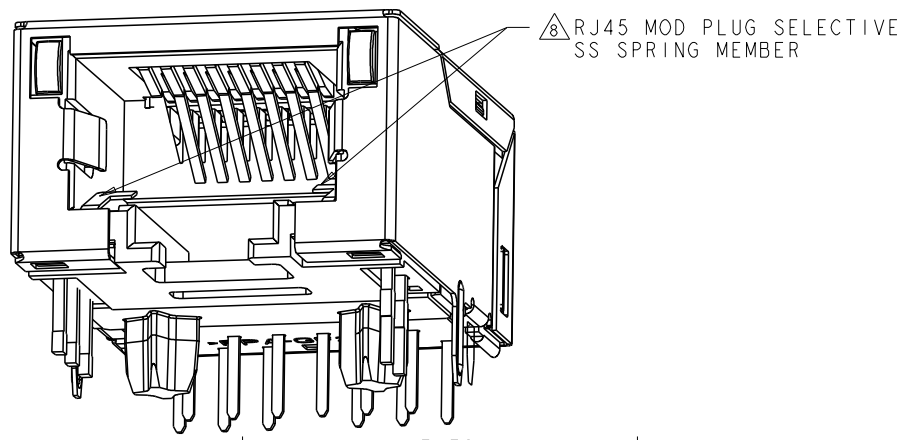


REVISIONS				
P	LYR	DESCRIPTION	DATE	APPD
D		LOGO CHANGE	10MAY2013	TY KZ



△ MATERIALS:
 -HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
 -SHIELD: 0.20±0.02mm THICK, BRASS PREPLATED WITH 0.76 μm MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 2μm MIN SAC 305 ALLOY LEAD FREE SOLDER (TIN PRIMARY, 3% SILVER, 0.5% COPPER)
 -CONTACT TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 μm MIN OVERALL NICKEL UNDERPLATE, 3μm MIN TIN PLATE
 -MOD JACK CONTACTS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 μm MIN OVERALL NICKEL UNDERPLATE, WITH 0.76μm MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
 -LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, CARBON STEEL WIREFRAME PREPLATED WITH 2.03 μm SILVER PLATE OVER 1.02 μm NICKEL OVER 1.02 μm COPPER UNDERPLATES; LEADS POST-PLATED WITH 3.05 μm TIN.
 -LIGHT PIPE: POLYETHER SULFONE

△ 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, 0.1 VRMS
 8 mA DC BIAS FROM 0°C TO 70°C, TX AND RX
 -PERFORMANCE @25°C:

FREQUENCY	RETURN LOSS (dB MIN) CIRCUIT IMPEDANCE = 100 OHMS ±15%
0.5 MHz-30 MHz	18
30.1 MHz-60 MHz	18-20 log(f/30) f IS FREQUENCY IN MHZ
60.1 MHz-80 MHz	12

FREQUENCY	INSERTION LOSS (dB MAX)	COMMON MODE REJECTION RATIO (dB MIN)	CROSSTALK ATTENUATION (dB MIN)
0.5 MHz-40 MHz	1.1	30	35
40.1 MHz-100 MHz			33-20log(f/50) (f IS FREQUENCY IN MHZ)

-ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3.2002, PARA 23.5.1.1, ITEM a AND b.

△ THE MAGNETICS ARE ASYMMETRICAL, AND DO NOT SUPPORT AUTO-MDIX.

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

△ LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
 DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF=20mA

△ LED 2 WILL EMULATE "YELLOW" LIGHT WHEN BOTH GREEN AND ORANGE DIODES ARE DRIVEN AT CONSTANT CURRENT (20mA RECOMMENDED) TO INDICATE THE THIRD COLOR STATE.

△ RJ45 MOD PLUG SELECTIVE - THIS CONNECTOR UTILIZES STAINLESS STEEL SPRING MEMBER WHICH PREVENTS THE INSERTION OF A RJ11 (6 POSITION) PLUG INTO THE JACK PORT, WHILE ALLOWING A RJ45 (8 POSITION) PLUG TO MATE FREELY.

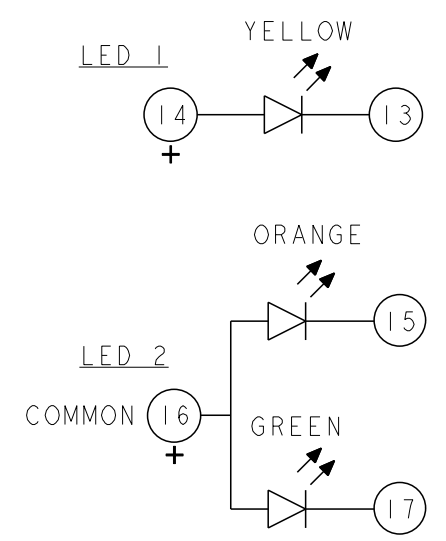
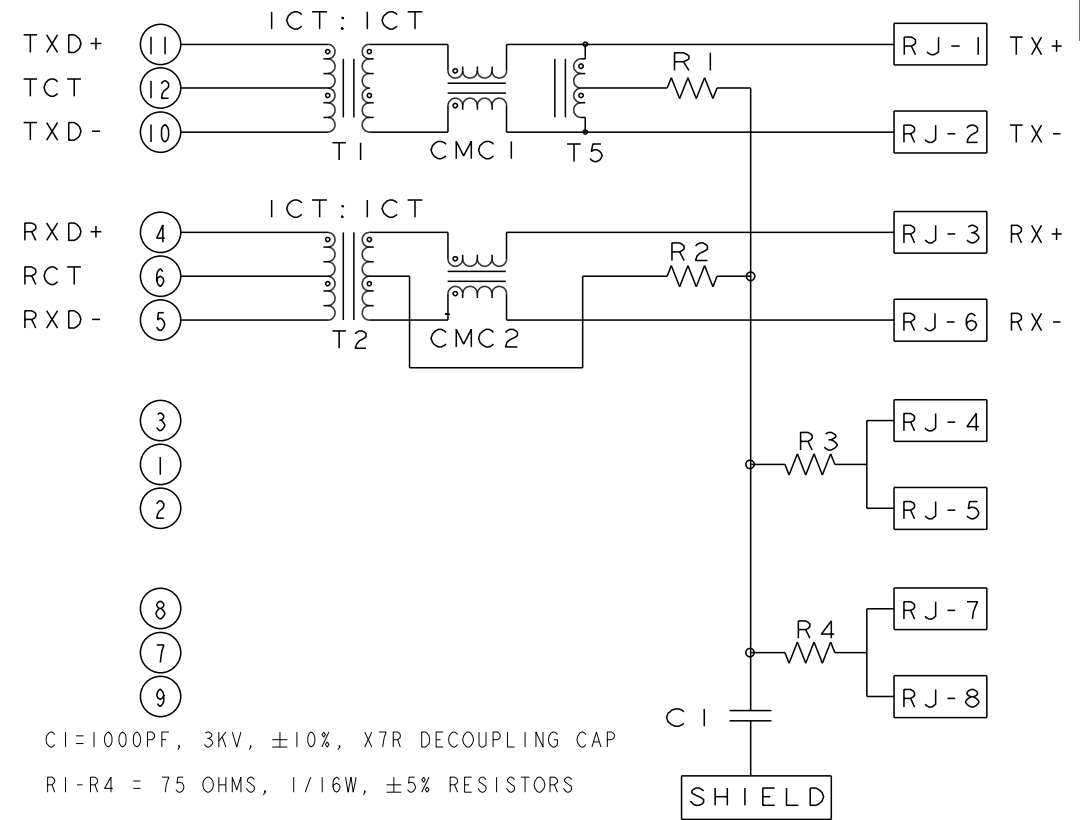
WARNING: THIS FEATURE WAS DEVELOPED FOR TYPICAL PLUG INSERTION FORCES. EXCESSIVE INSERTION FORCE MAY OVERCOME THE SELECTIVE FEATURES AND DAMAGE THE CONNECTOR.

△ TRADEMARK, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

10 THESE PARTS ARE COMPLIANT WITH BOTH WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE 260°C MAX, 10 SECONDS MAX; AND IR REFLOW SOLDERING PROCESS PEAK SOLDERING TEMPERATURE 260°C MAX DURATION TIME 10 SECONDS MAX, OVER 230°C WITHIN 40-60 SECONDS.

11 1368590-1 SHOWN UNLESS OTHERWISE NOTED

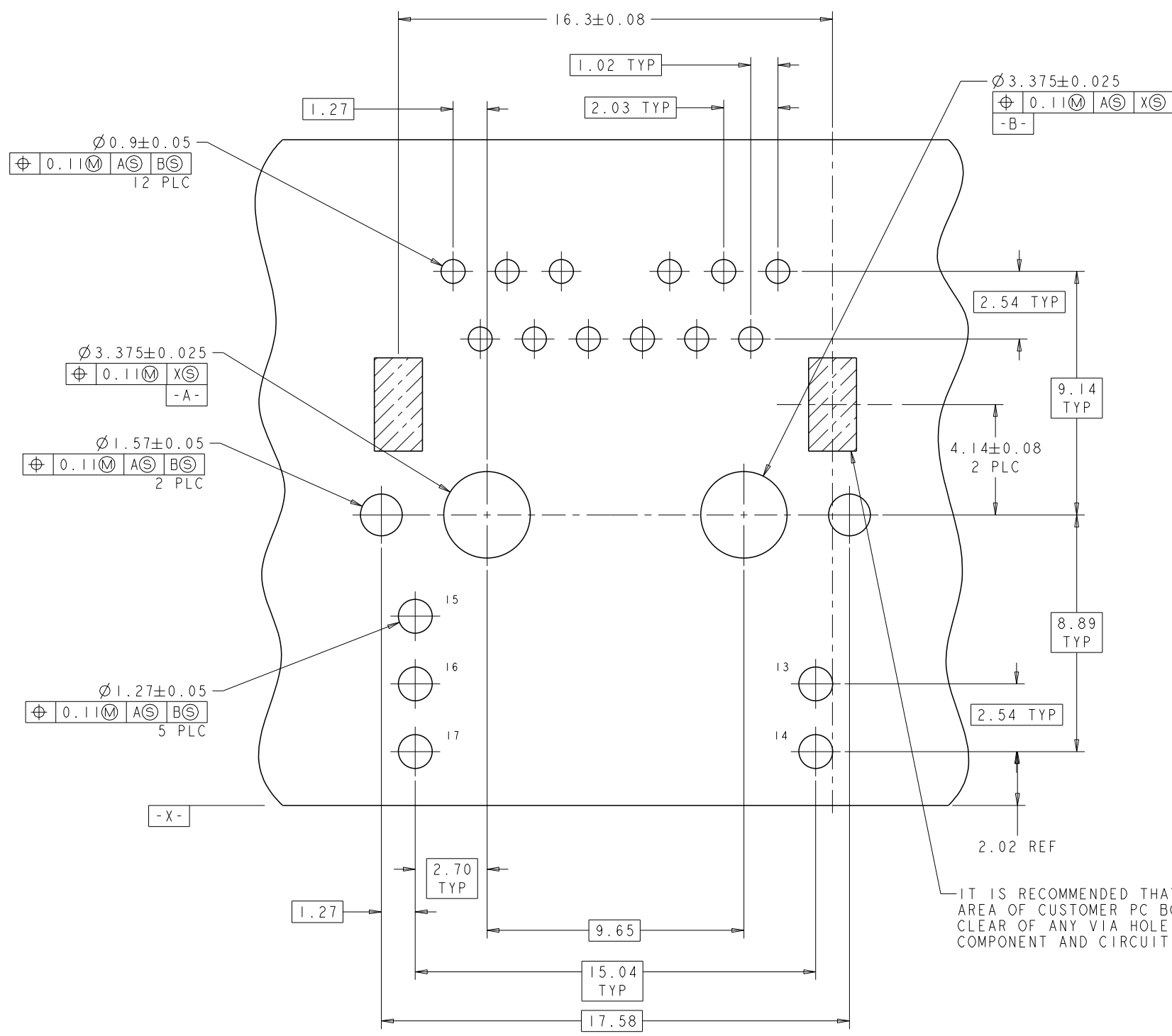
814 10/100 BASE-T CIRCUIT



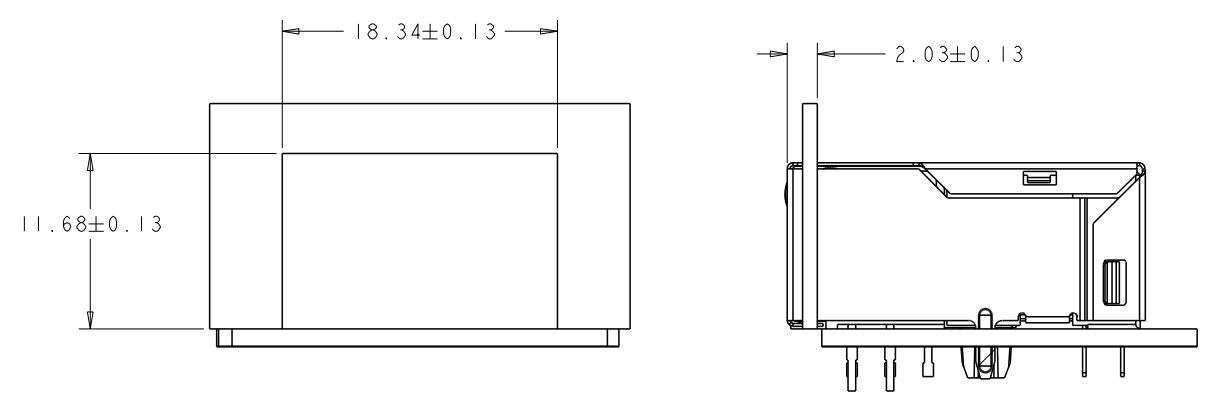
CI=1000PF, 3KV, ±10%, X7R DECOUPLING CAP
 R1-R4 = 75 OHMS, 1/16W, ±5% RESISTORS

1.8	1.8	1368590-3
1.50	1.50	1368590-2
3.3	3.18	1368590-1
DIM B	DIM A	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOWER YU 25JUL2005		TRP connector Dongguan China	
DIMENSIONS: mm		CHK TEDDY XIONG 25JUL2005		NAME 1X1 MAG45(TM), JACK, 814 10/100 SHIELDED, LEDS, TAB DOWN	
TOOLERANCES UNLESS OTHERWISE SPECIFIED:		APFD TEDDY XIONG 25JUL2005		SIZE CAGE CODE DRAWING NO RESTRICTED TO	
0 PLC ±0.25		PRODUCT SPEC 108-2207		A1 C=1368590	
1 PLC ±0.25		APPLICATION SPEC 114-		SCALE NTS SHEET 1 OF 2 REV D	
2 PLC ±0.25		WEIGHT			
3 PLC ±		CUSTOMER DRAWING			
4 PLC ±					
ANGLES ±					
FINISH					

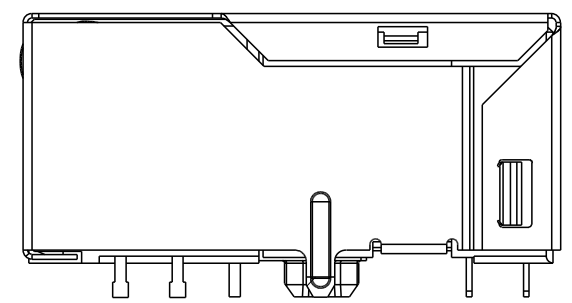
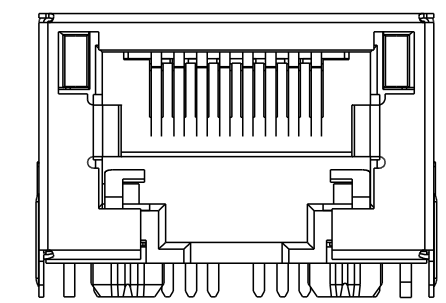


SUGGESTED PCB LAYOUT
(COMPONENT SIDE)

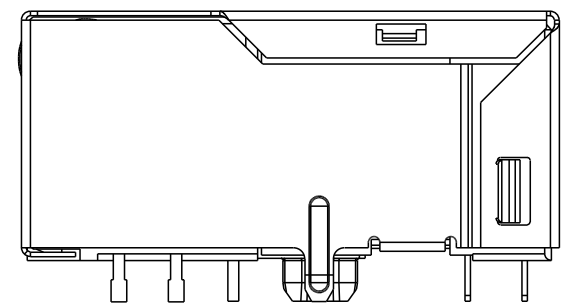
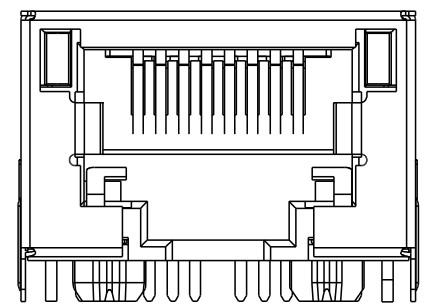


SUGGESTED PANEL OPENING

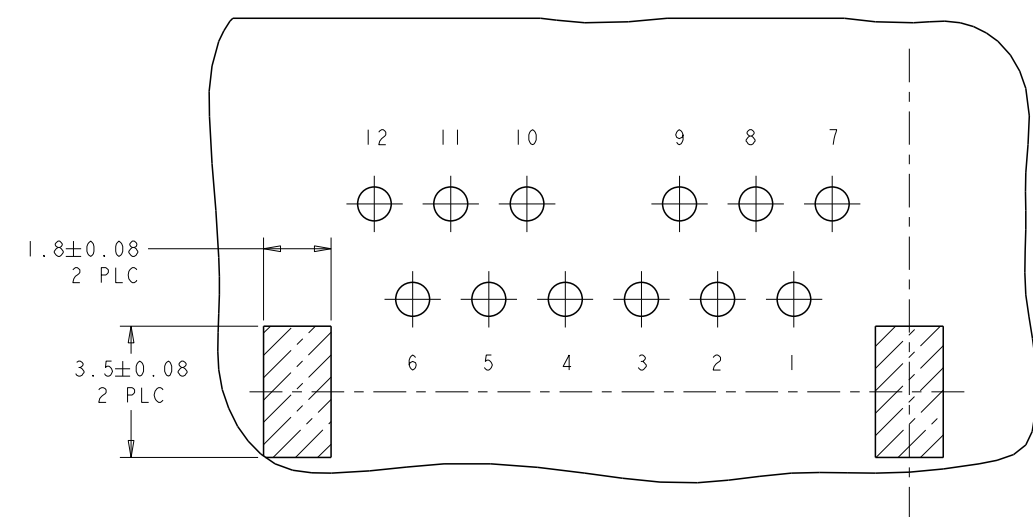
IT IS RECOMMENDED THAT SHADED AREA OF CUSTOMER PC BOARD BE CLEAR OF ANY VIA HOLE, COMPONENT AND CIRCUIT TRACE



1368590-2



1368590-3



PIN DESIGNATIONS

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: TOWER YU 25 JUL 2005		TRP connector Dongguan China	
DIMENSIONS: mm		CHK: TEDDY XIONG 25 JUL 2005			
TOOLERANCES UNLESS OTHERWISE SPECIFIED:		APPD: TEDDY XIONG 25 JUL 2005		NAME: IXI MAG45(TM), JACK, 814 10/100 SHIELDED, LEDS, TAB DOWN	
0 PLC ±0.25		PRODUCT SPEC 108-2207		SIZE: A1	
1 PLC ±0.25		APPLICATION SPEC		CAGE CODE: C=1368590	
2 PLC ±0.25		WEIGHT: -		RESTRICTED TO: -	
3 PLC ±0.25		MATERIAL: -		SCALE: NTS	
4 PLC ±0.25		FINISH: -		SHEET 2 OF 2	
ANGLES ±0.25		CUSTOMER DRAWING		REV D	