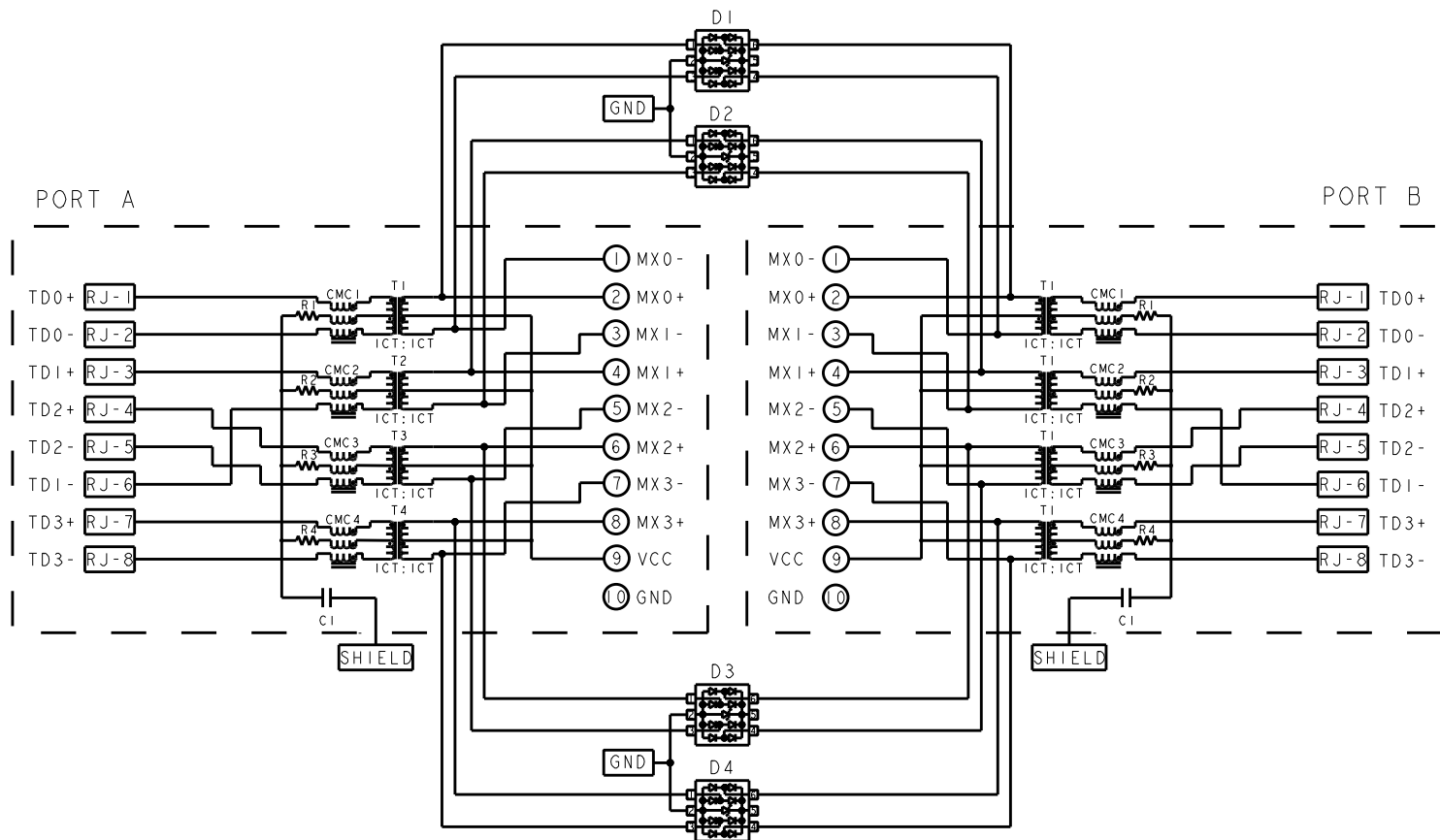


S8G131 GIGABIT CIRCUIT



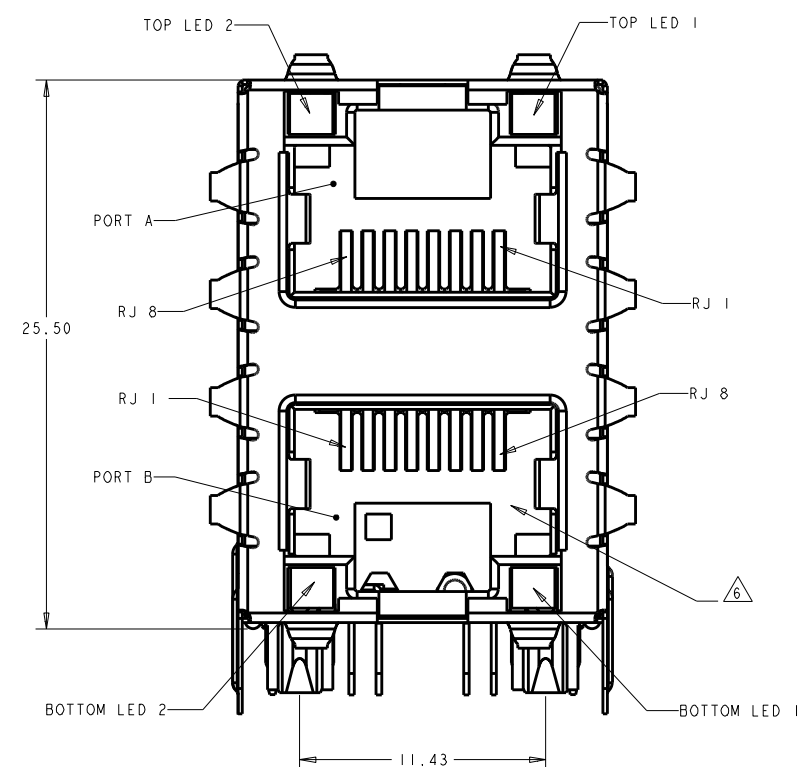
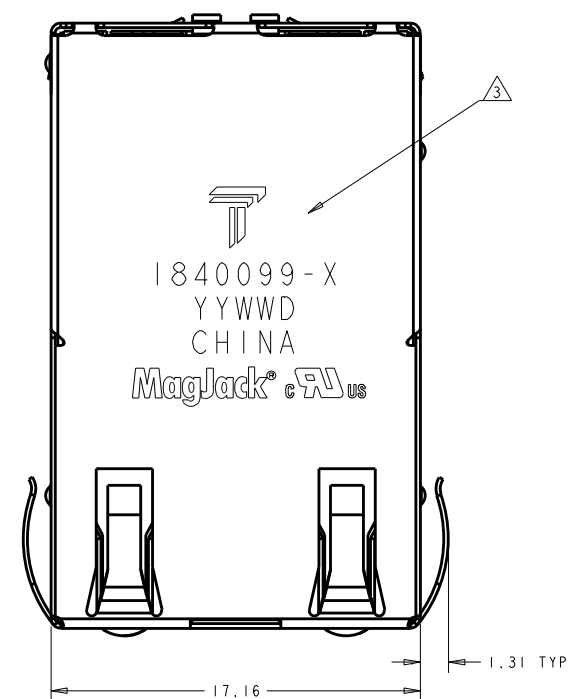
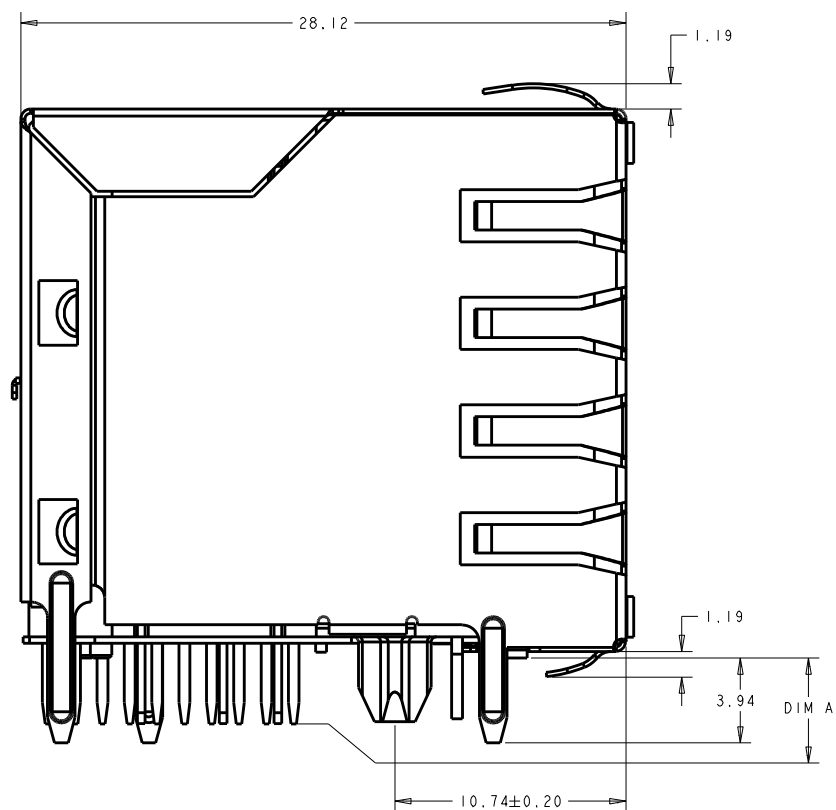
C1 = 1000pF, 2kV, DECOUPLING CAPACITOR  
R1-R4 = 75 Ohms, 1/16 W, RESISTORS  
D1-D4 = 25V, ESD SUPPRESSORS



- 1 MATERIALS:  
PLASTIC HOUSING: BLACK, HIGH TEMPERATURE NYLON,FLAMMABILITY RATING UL 94V-0  
SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL,  
POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,  
CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL  
UNDERPLATE WITH SELECT 1.27um MIN GOLD AT MATING INTERFACE  
AND 2.54um MIN MATTE TIN ON SOLDER TAILS.  
LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME TAILS OF LED  
ARE PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL  
UNDERPLATE OVER 1.02um MIN COPPER UNDERPLATE, POST-PLATED WITH  
2.54um MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP  
ALL PC BOARDS: HIGH TEMP PCB, TG>170°C.
- 2 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.
- 3 TRP LOGO, PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN  
AND AGENCY APPROVAL LOGO TO BE LOCATED IN APPROXIMATE AREA SHOWN.DATE  
CODE: "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1
4. THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,  
PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.
5. OPERATING TEMP: FROM 0°C TO +70°C.
- 6 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
- 7 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND  
SUPPORT AUTO-MDI/MDIX.
- 8 DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
- 9 BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE  
GREATER THAN 5.08mm.  
10 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

3.56	GREEN	GREEN	GREEN	GREEN	1840099-1
3.56	YELLOW	GREEN	GREEN	YELLOW	1840099-2
DIM A	BOTTOM LED 2	BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER

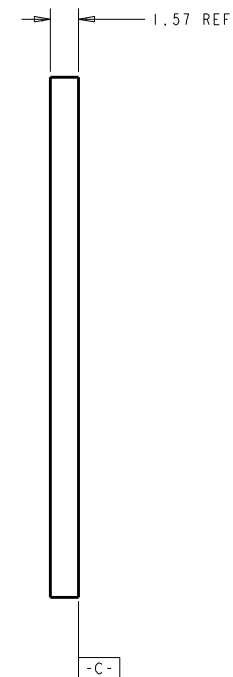
THIS DRAWING IS A CONTROLLED DOCUMENT.					
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN: PAUL PENG/COLIN ZHOU CHK: QUENTIN LIU APVD: KELTH ZHU	
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25		MODEL NAME MAGJACK		DESC 2X1 S8G131 GIGABIT W/ LED	
PRODUCT SPEC 108-104004		APPLICATION SPEC -		SIZE A1	
CUSTOMER DRAWING		SCALE NTS		SHEET 1 OF 3	
				REV F	





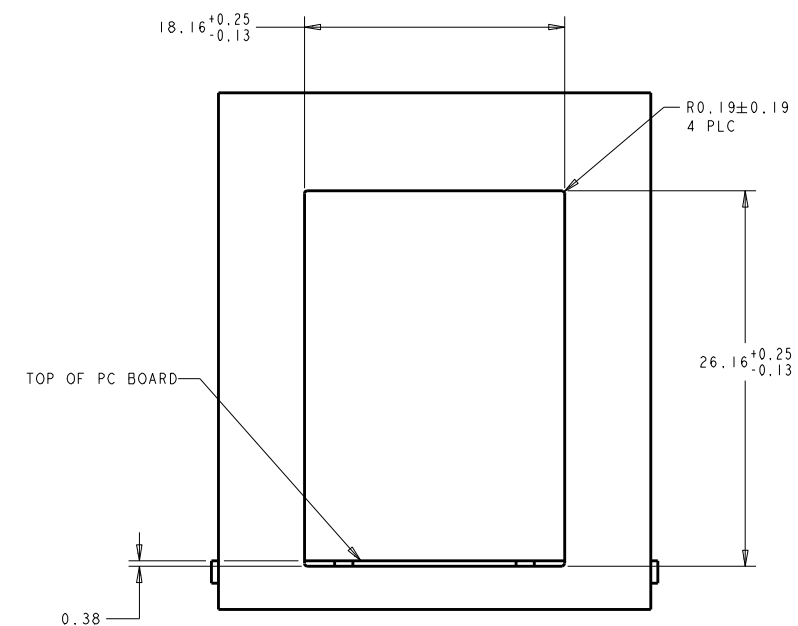
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG. 16NOV2012 CHG. PAUL PENG/COLIN ZHOU QUENTIN LIU 16NOV2012 APVD. KEVIN ZHU 16NOV2012		 DONGGUAN CHINA	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±°		MODEL NAME MAGJACK STACK NON-POE	
		APPLICATION SPEC		DESC 2X1 S8G131 GIGABIT W/ LED	
PRODUCT SPEC 108-104004		CUSTOMER DRAWING A1		SIZE CAGE CODE DRAWING NO C=1840099	
		SCALE NTS		SHEET 2 OF 3 REV E	







TOP LED 2 11  
BOTTOM LED 1 13  
(+)

11 12  
13 14



A

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN PAUL PENG/COLIN ZHOU 16NOV2012 CHK QUINTEN LIU 16NOV2012 APVD KEITH ZHUI 16NOV2012		 <b>trp</b> CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ° ±		MODEL NAME MAGJACK STACK NON-POE		DESC 2X1 S8G131 GIGABIT W/ LED	
		APPLICATION SPEC 108-104004		SIZE A1		CASE CODE C=1840099	
PRODUCT SPEC 108-104004		CUSTOMER DRAWING		SCALE NTS		SHEET 3 OF 3 REV F	