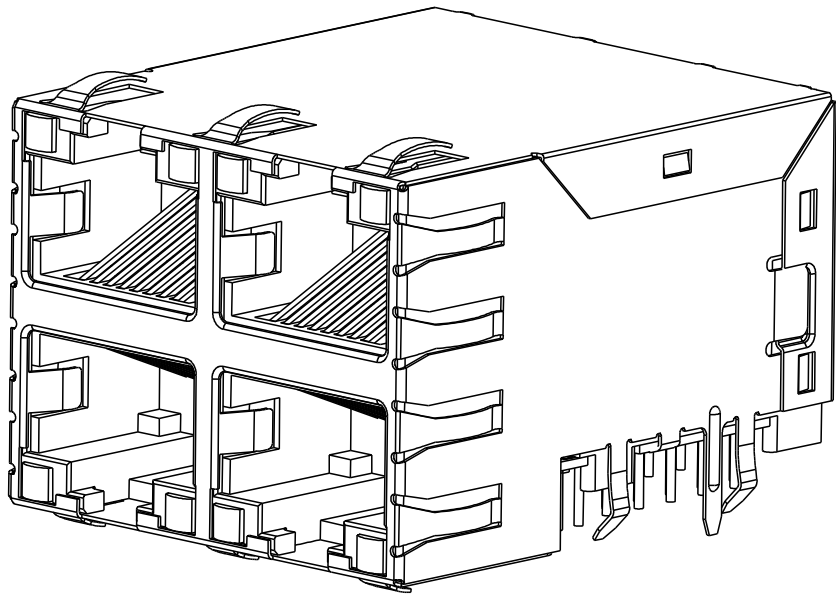
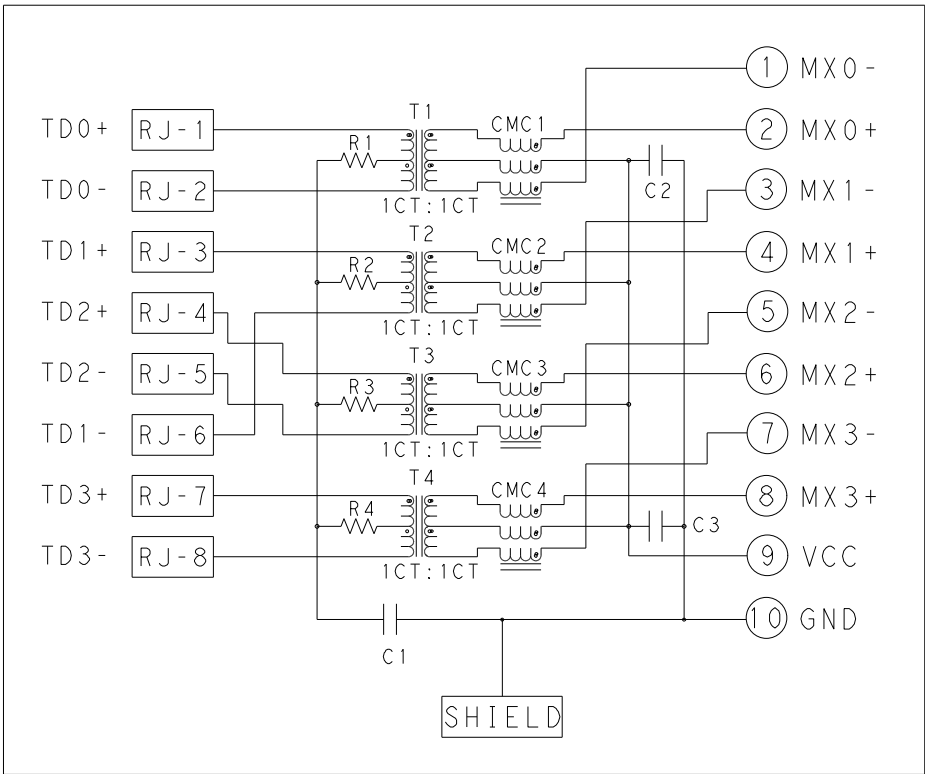




S8G56 GIGABIT CIRCUIT

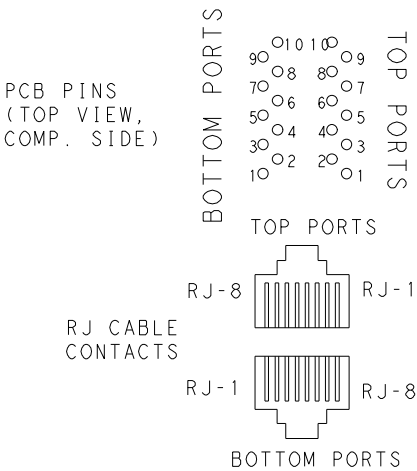
TOP AND BOTTOM PORTS



C1 = 1000pF, 2kV CAPACITOR
C2 - C3 = 10nF, 50V CAPACITORS
R1-R4 = 75 Ohms, 1/16 W, RESISTORS

PIN DESIGNATIONS

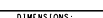
(REPEAT FOR EACH VERTICAL PAIR OF PORTS))

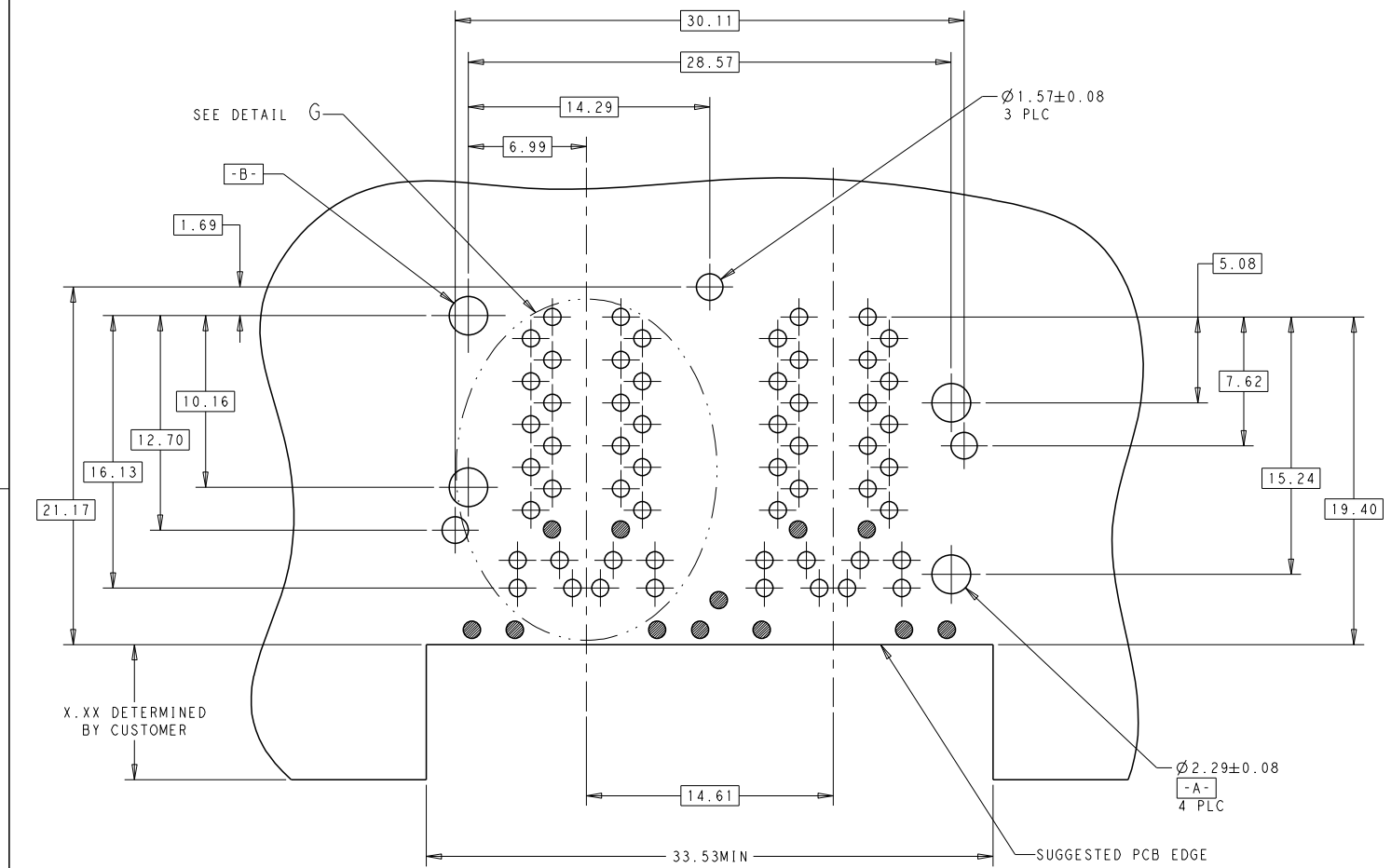


- 1 MATERIALS:
- HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS.
 - CONTACTS: PHOSPHOR BRONZE, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE, SELECTIVE 1.27um MIN GOLD AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
 - LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME LEADS, PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL OVER 1.02um MIN COPPER UNDERPLATE, POST PLATED WITH 2.54um MIN MATTE TIN AND/OR 2.54um MIN SAC SOLDER DIP OR PURE TIN SOLDER DIP.
- 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 PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED IN THE APPROXIMATE AREA SHOWN. DATE CODE YY IS YEAR,WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1
- 4 TRP LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN THE APPROXIMATE AREA SHOWN.
- 5 RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68 SUBPART F.
- 6 LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX. 20mA.
- DOMINANT WAVELENGTH (λD)
GREEN, 568nm TYP AT IF=20mA
YELLOW, 588nm TYP AT IF=20mA
FORWARD VOLTAGE(VF)
GREEN, 2.2V TYP AT IF=20mA
YELLOW, 2.1V TYP AT IF=20mA
- 7 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.
- 8 OPERATING TEMPERATURE: FROM 0 °C TO 70 °C
- 9 THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260 °C MAX. 10 SECONDS MAX.

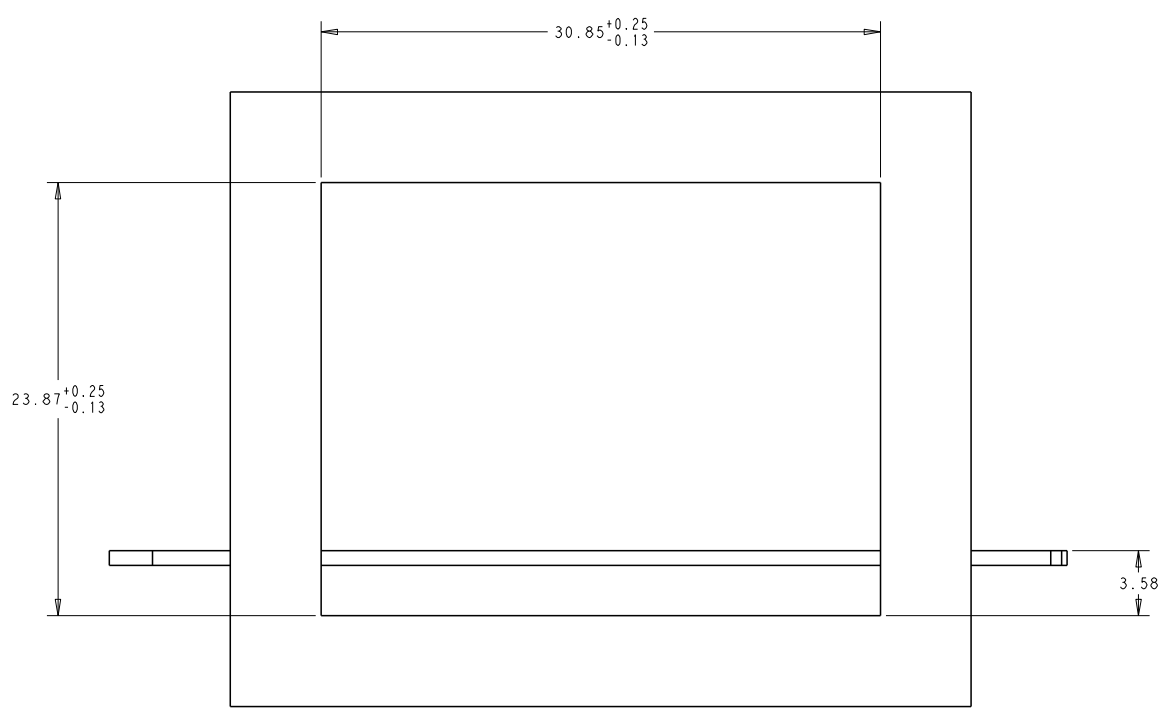
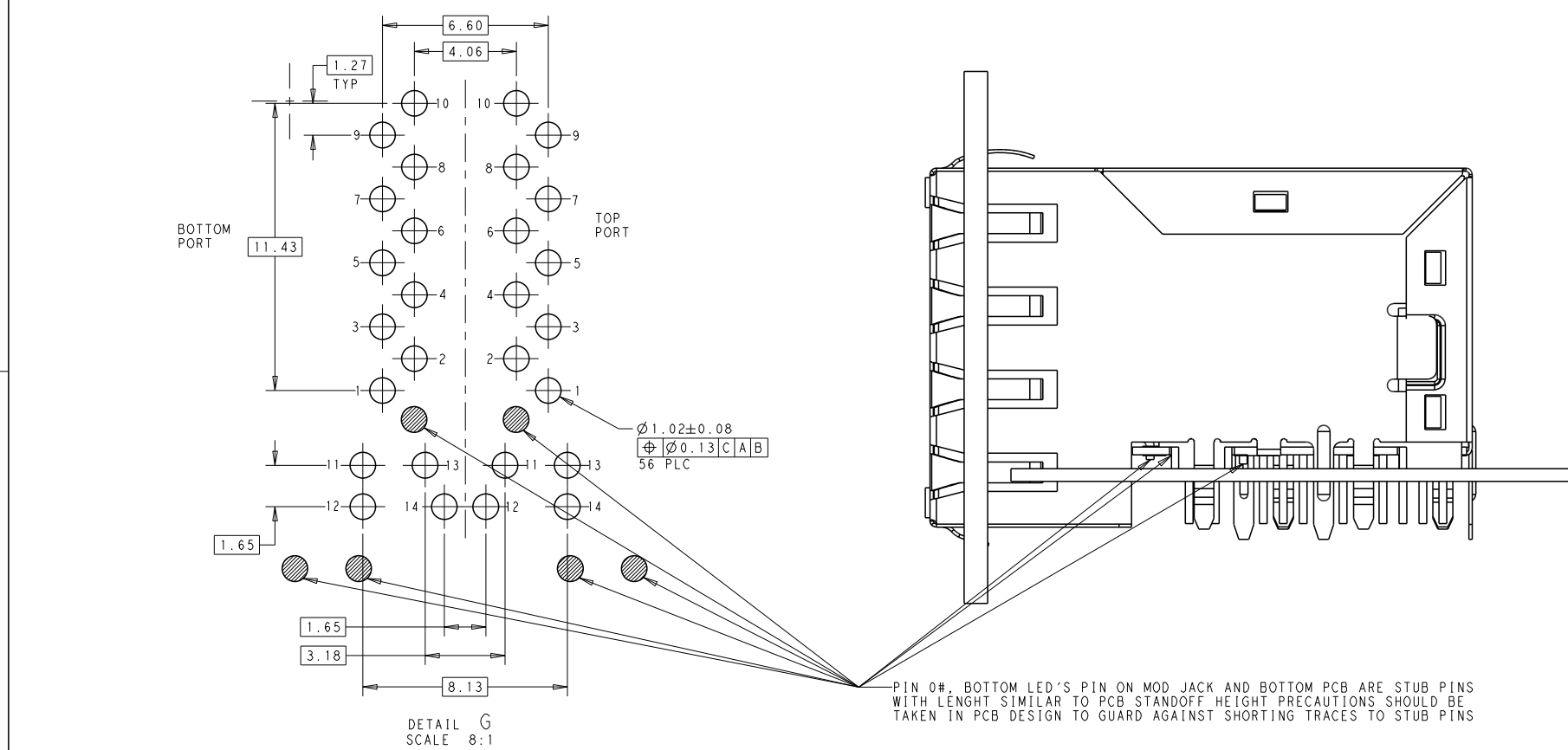
GREEN	YELLOW	GREEN	YELLOW	1	1840922-3
GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	1	1840922-1
BOTTOM LED 2 (LEFT)	BOTTOM LED 1 (RIGHT)	TOP LED 2 (LEFT)	TOP LED 1 (RIGHT)	REAR PCB GND TABS	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: RICHARD QIAN 21DEC2009 CHK: FRANK LIU 21DEC2009 APVD: LI JIN RAO 21DEC2009		TRP connector Dongguan China	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± FINISH		PRODUCT SPEC 108-104004 APPLICATION SPEC - WEIGHT -	
MATERIAL -		SCALE 4:1		SIZE A1	
CUSTOMER DRAWING		SCALE 4:1		SHEET 1 OF 4	

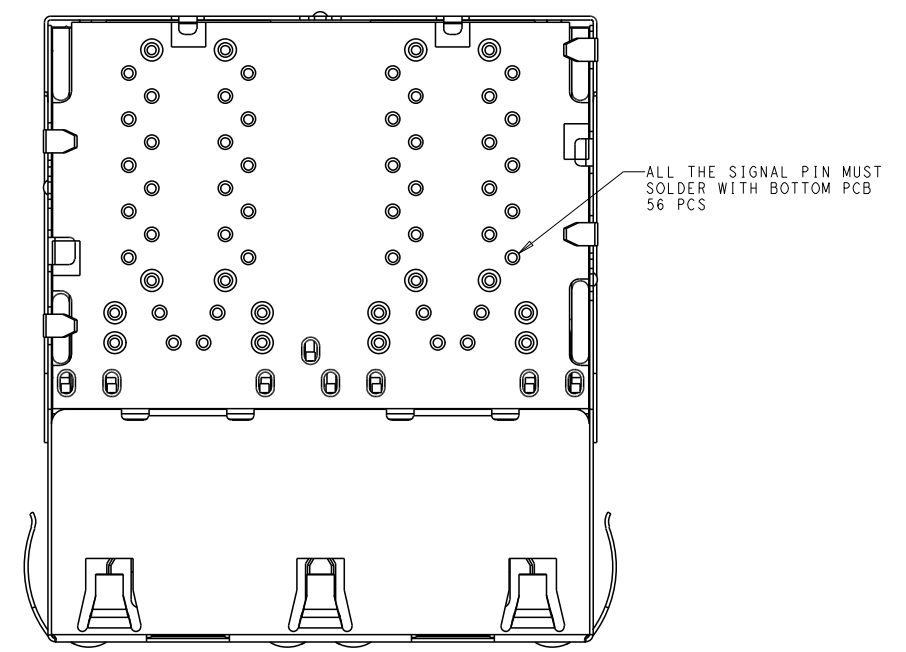
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG. 21DEC2009 CHECKED BY RICHARD QIAN DATE 21DEC2009 FRANK LIU APPROVED BY LIU JIN RAO DATE 21DEC2009		 TRP connector Dongguan China	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 P.L.C ±. 1 P.L.C ±0.25 2 P.L.C ±. 3 P.L.C ±. 4 P.L.C ±. ANGLES ±.		PRODUCT SPEC 108-104004 APPLICATION SPEC	
		NAME: X2Y2 MAG45(TM) MODULAR JACK, OFFSET S856 GIGABIT CIRCUIT, W/ LED'S		SIZE: CAGE CODE: DRAWING NO: RESTRICTED	
MATERIAL: - - -		FINISH: - - -		WEIGHT: - A1 - C=1840922	
CUSTOMER DRAWING				SCALE: A:1 SHEET 2 OF 4 REV F	



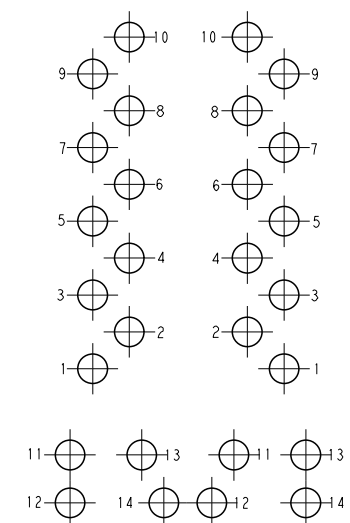
RECOMMENDED
PC BOARD LAYOUT VIEW FROM COMPONENT SIDE



RECOMMENDED PANEL CUT-OUT

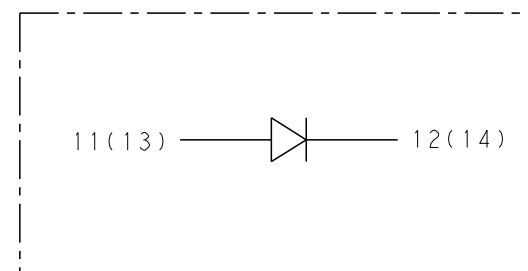
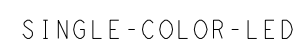


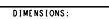
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: RICHARD QIAN 21DEC2009	TRP connector Dongguan China
		CHK: FRANK LIU 21DEC2009	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD: LI JIN RAO	PRODUCT SPEC
			108-104004
	0 PLC	±	APPLICATION SPEC
	1 PLC	±	
	2 PLC	±0.25	
	3 PLC	±	
	4 PLC	±	
	ANGLES	±	
MATERIAL	FINISH	WEIGHT	SIZE CAGE CODE DRAWING NO
			A1 - C=1840922
CUSTOMER DRAWING		SCALE 5:1	SHEET 3 OF 4 REV E



SEE DETAIL B—

BI-COLOR-LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG NO. 21DEC2009 RICHARD QIAN CHK. 21DEC2009 FRANK LIU APVD. 21DEC2009 LIU JIAN RAO		 TRP connector Dongguan China	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±. 2 PLC ±0.25 3 PLC ±. 4 PLC ±. ANGLES ±.		PRODUCT SPEC 108-104004 APPLICATION SPEC	
		NAME: 2x2 MAG45(TM) MODULAR JACK, OFFSET S8656 GIGABIT CIRCUIT, W/ LED'S		SIZE CAD CODE DRAWING NO. RESTRICTED TO	
MATERIAL -		FINISH -		WEIGHT -	
		CUSTOMER DRAWING		SCALE 8:1 SHEET A OF A REV E	