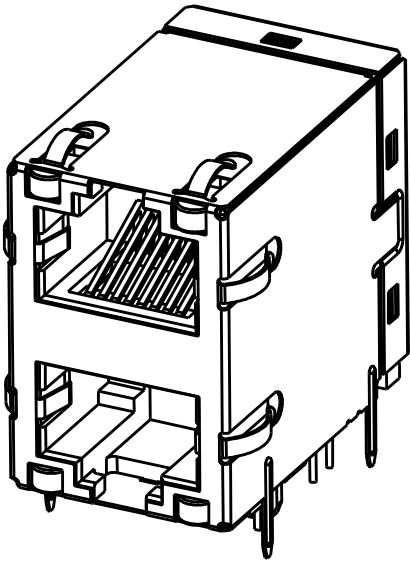
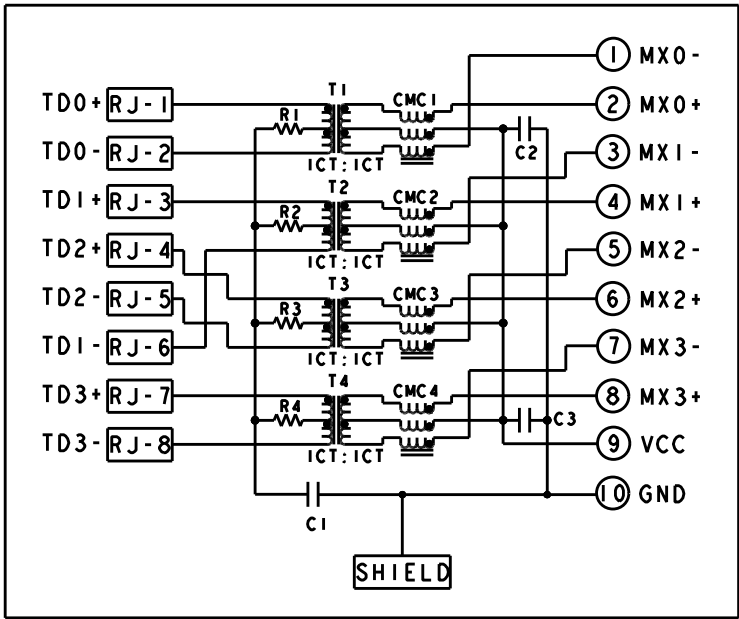




S8G56 GIGABIT CIRCUIT
TOP AND BOTTOM PORTS



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

1. MATERIALS:
PLASTIC HOUSING: BLACK, THERMOPLASTIC 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 TEMPERATURE 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. PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED
IN APPROXIMATE AREA SHOWN.DATE CODE: "YY" IS YEAR, "WW" IS
WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1
4. TRP CONNECTOR LOGO AND AGENCY APPROVAL LOGO ARE
LOCATED IN APPROXIMATE AREA SHOWN.
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
DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP @ IF=20 mA
DOMINANT WAVELENGTH (λD): ULTRA LOW WAVELENGTH GREEN (ULWG) 525 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): ULTRA LOW WAVELENGTH GREEN (ULWG) 2.8V TYP. @ IF=20mA

11. THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX,
10 SECONDS MAX.

3.04	ULWG/YEL	ULWG	ULWG	ULWG	ULWG/YEL	9-1840855-7
2.00	GREEN	YELLOW	GREEN	YELLOW	YELLOW	5-1840855-3
3.56	GREEN	GREEN	GREEN	GREEN	GREEN	4-1840855-1
2.21	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	3-1840855-4
2.21	GREEN	GREEN	GREEN	GREEN	GREEN	3-1840855-1
2.08	GREEN	YELLOW	GREEN	YELLOW	YELLOW	2-1840855-3
2.76	GREEN	GREEN	GREEN	GREEN	GREEN	1-1840855-1
4.06	ULWG/YEL	ULWG/YEL	ULWG/YEL	ULWG/YEL	ULWG/YEL	1-1840855-9
4.06	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	1-1840855-4
3.04	GREEN	GREEN/YELLOW	GREEN	GREEN/YELLOW	GREEN/YELLOW	1840855-8
3.04	GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	1840855-7
3.04	GREEN	GREEN/ORANGE	GREEN	GREEN/ORANGE	GREEN/ORANGE	1840855-6
3.04	GREEN/YELLOW	GREEN	GREEN/YELLOW	GREEN	GREEN	1840855-5
3.04	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	1840855-4
3.04	GREEN	YELLOW	GREEN	YELLOW	YELLOW	1840855-3
3.04	GREEN	GREEN	GREEN	GREEN	GREEN	1840855-1
DIM A	BOTTOM LED 2	BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER	

THIS DRAWING IS A CONTROLLED DOCUMENT.

DATE: 16NOV2010
CHK: JAMISON CHEN/KO L1
DATE: 16NOV2010
CHK: TONY YUAN
DATE: 16NOV2010
APVD: KELTH ZHU

trp CONNECTOR

DONGGUAN CHINA

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ±
2 PLC ±0.25
3 PLC ±
4 PLC ±
ANGLES

PRODUCT SPEC

108-104004

APPLICATION SPEC

-

MODEL NAME

MAGJACK

2X1 GIGABIT S8G56 WITH LED

SIZE: A1

CAGE CODE: 1840855

DRAWING NO: 1840855

RESTRICTED TO: -

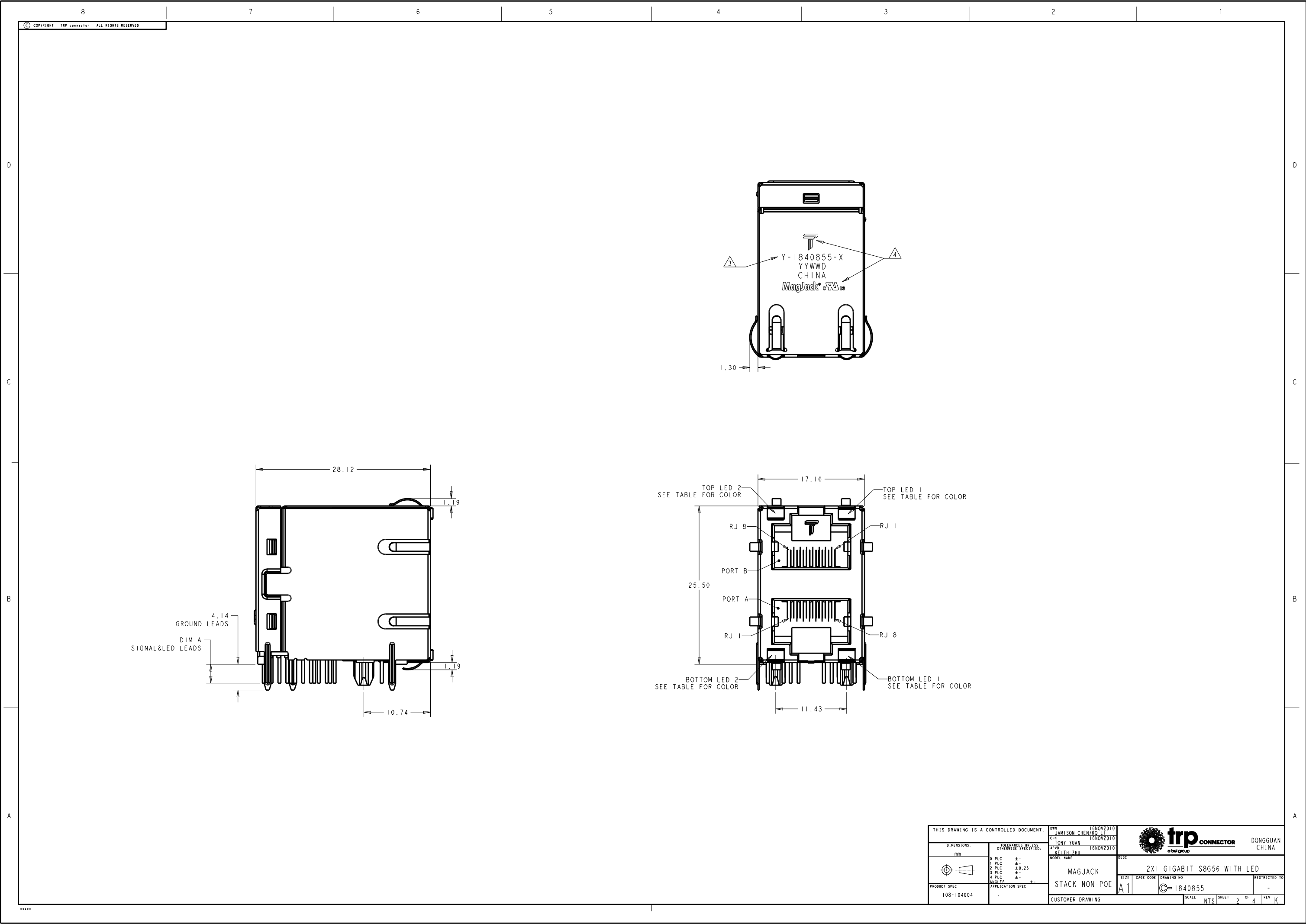
CUSTOMER DRAWING

SCALE: NTS

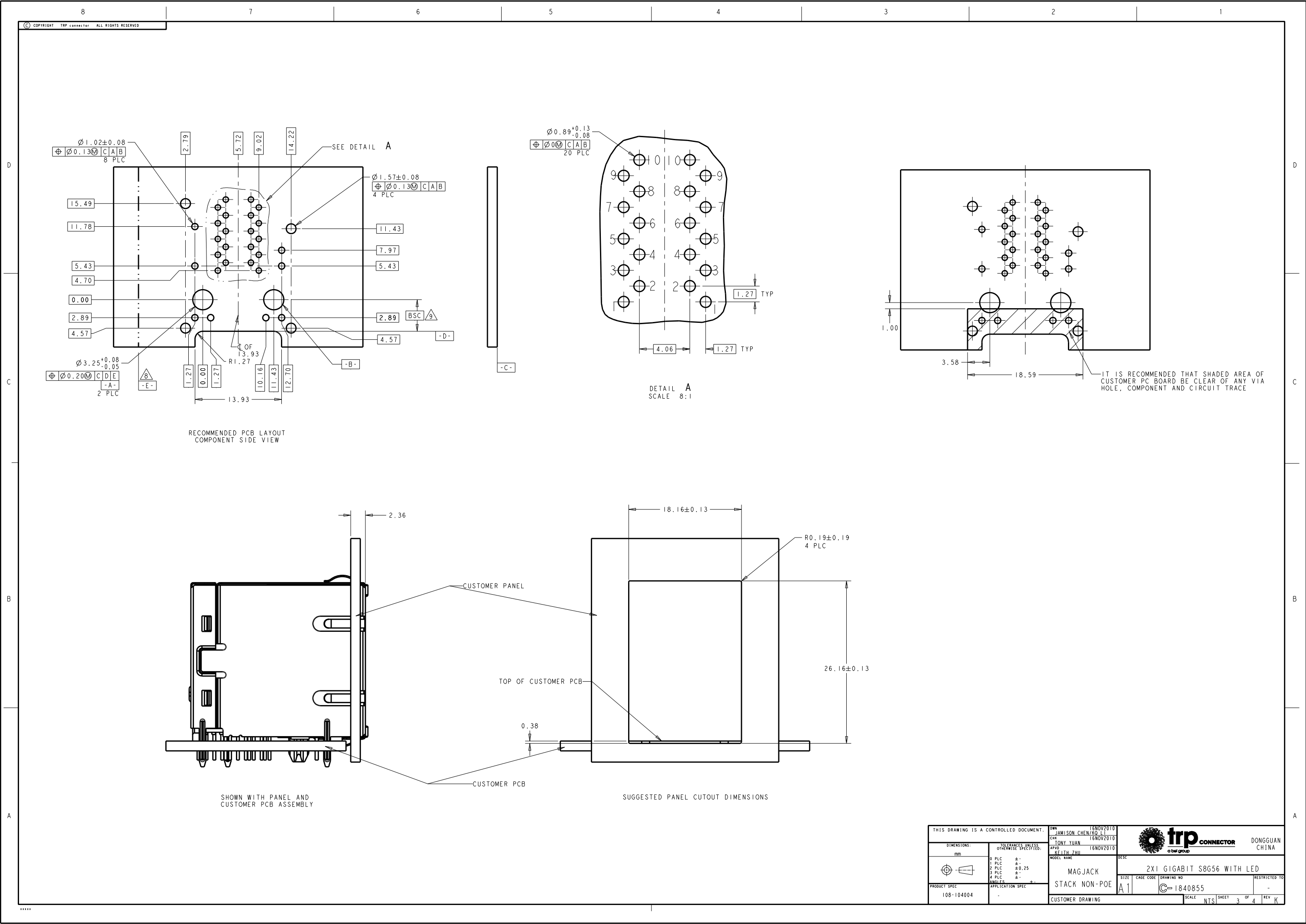
SHEET: 1 OF 4

REV: K

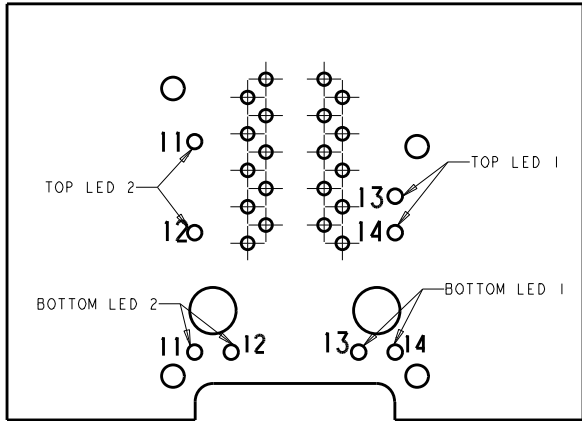
Please read our datasheet & drawing disclaimer [here](#).



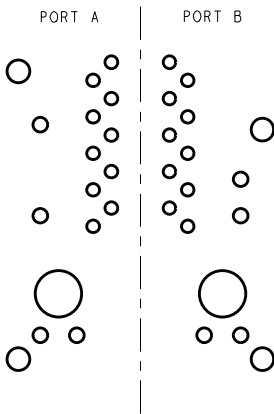
THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN JAMISON CHEN/NO. 11 16NOV2010		 DONGGUAN CHINA	
				CHK TONY YUAN 16NOV2010			
				APVD KEITH ZHU 16NOV2010			
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME		DESC	
mm				MAGJACK		2X1 GIGABIT S8G56 WITH LED	
		0 PLC ±		SIZE		CAGE CODE	
		1 PLC ±		A1		DRAWING NO	
PRODUCT SPEC		APPLICATION SPEC		RESTRICTED TO			
108-104004		-		CUSTOMER DRAWING		SCALE NTS	
				SHEET 2 OF 4		REV K	



THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN JAMISON CHEN/KO L	16NOV2010
		CHK TONY YUAN	16NOV2010
		APVD KELTH ZHU	16NOV2010
DIMENSIONS:		MODEL NAME	DESC
mm		MAGJACK	2X1 GIGABIT S8G56 WITH LED
TOLERANCES UNLESS OTHERWISE SPECIFIED:		SIZE	CAGE CODE
0 PLC $\pm$		A1	1840855
1 PLC ± 0.25		DRAWING NO	RESTRICTED TO
2 PLC $\pm$			
3 PLC $\pm$			
4 PLC $\pm$			
ANGLES			
APPLICATION SPEC			
PRODUCT SPEC			
108-104004			
CUSTOMER DRAWING		SCALE	SHEET
		NTS	3 OF 4
		REV	K

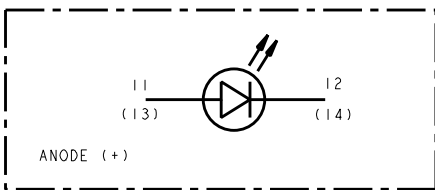


LED HOLE DESIGNATIONS
VIEWED FROM COMPONENT SIDE

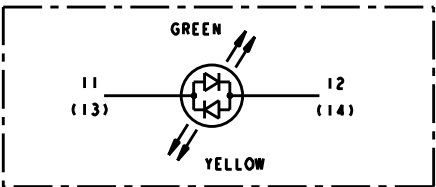


PORT ASSIGNMENT
COMPONENT SIDE VIEW

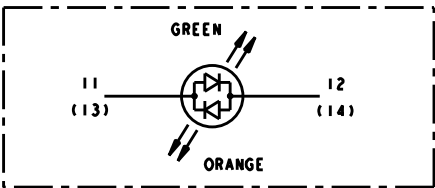
SINGLE COLOR LED



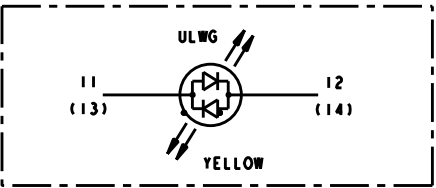
BI-COLOR LED



BI-COLOR LED



BI-COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JAMISON CHEN/NO.11 16NOV2010		 trp CONNECTOR DONGGUAN CHINA	
DIMENSIONS: mm		CHK TONY YUAN 16NOV2010			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD KELTH ZHU 16NOV2010		DESC 2X1 GIGABIT S8G56 WITH LED	
0 PLC ± -		MODEL NAME MAGJACK		SIZE A1	
1 PLC ± -		STACK NON-POE		CAGE CODE	
2 PLC ±0.25		DRAWING NO		RESTRICTED TO	
3 PLC ± -		1840855		-	
4 PLC ± -		CUSTOMER DRAWING		SCALE NTS	
APPLICATION SPEC		SHEET 4 OF 4		REV K	