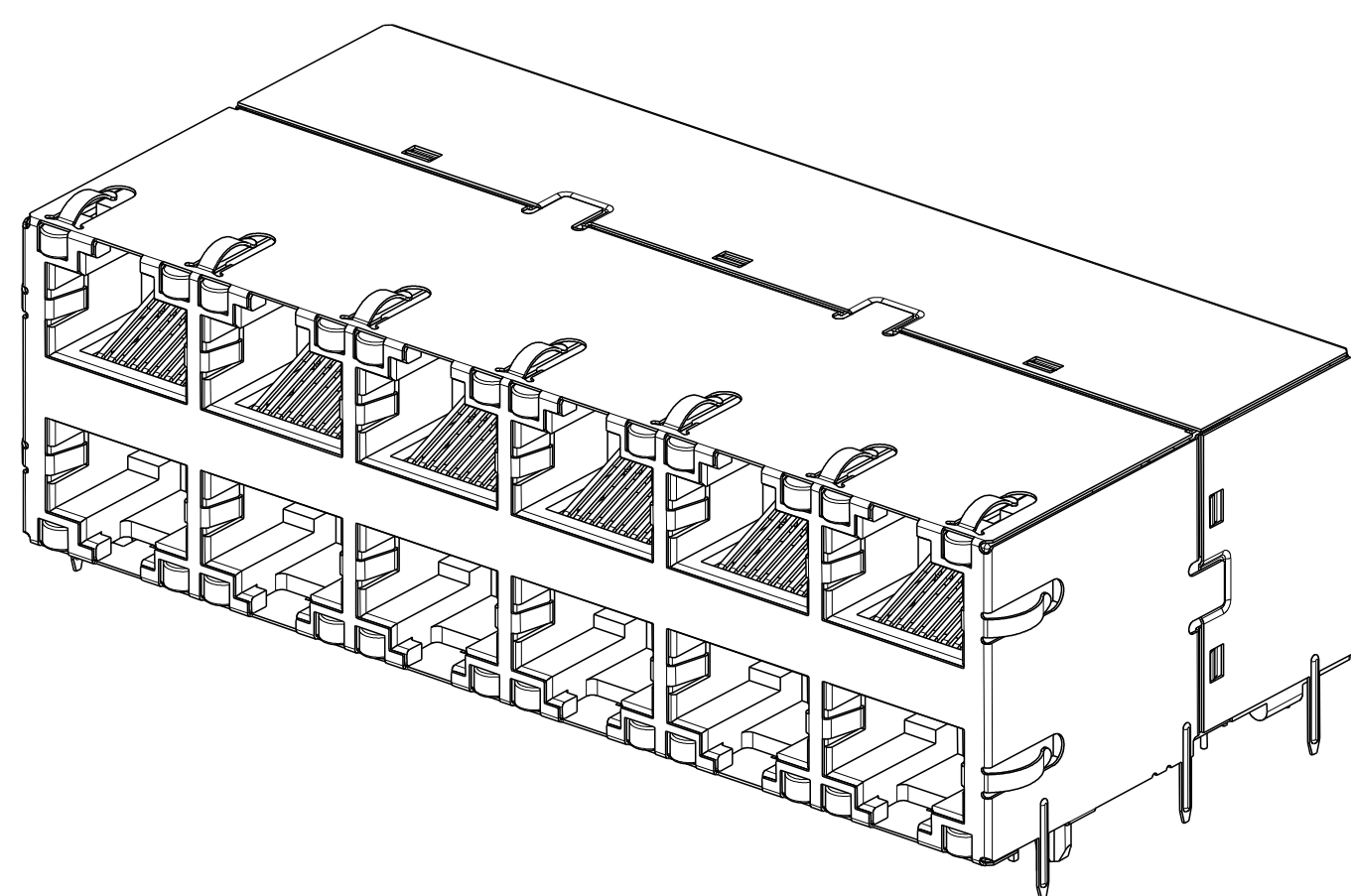
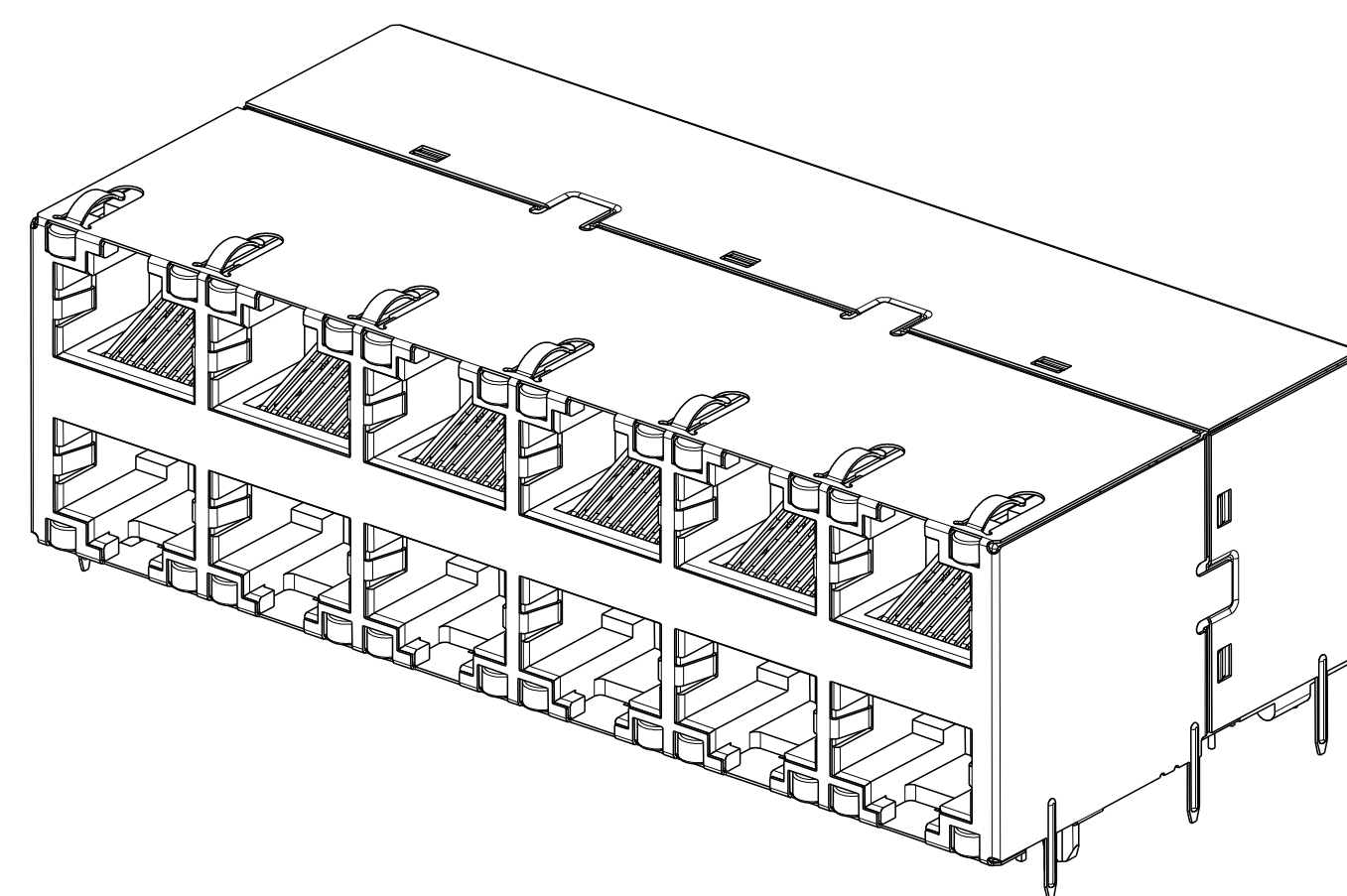




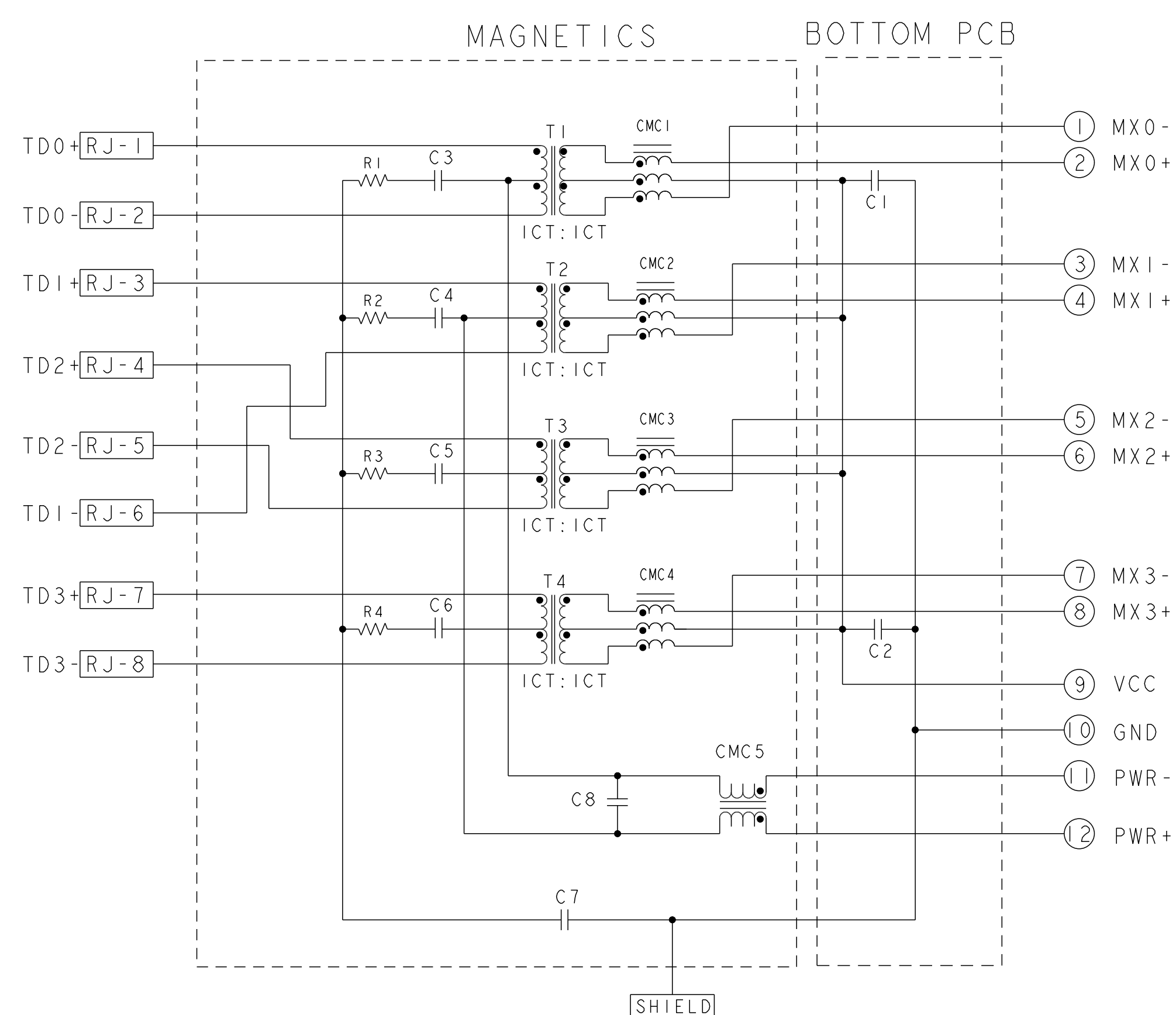
PART NUMBER WITH SIDE TAB



PART NUMBER WITHOUT SIDE TAB

S9HG49C GIGABIT PoE PLUS CIRCUIT

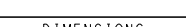
TOP AND BOTTOM PORTS

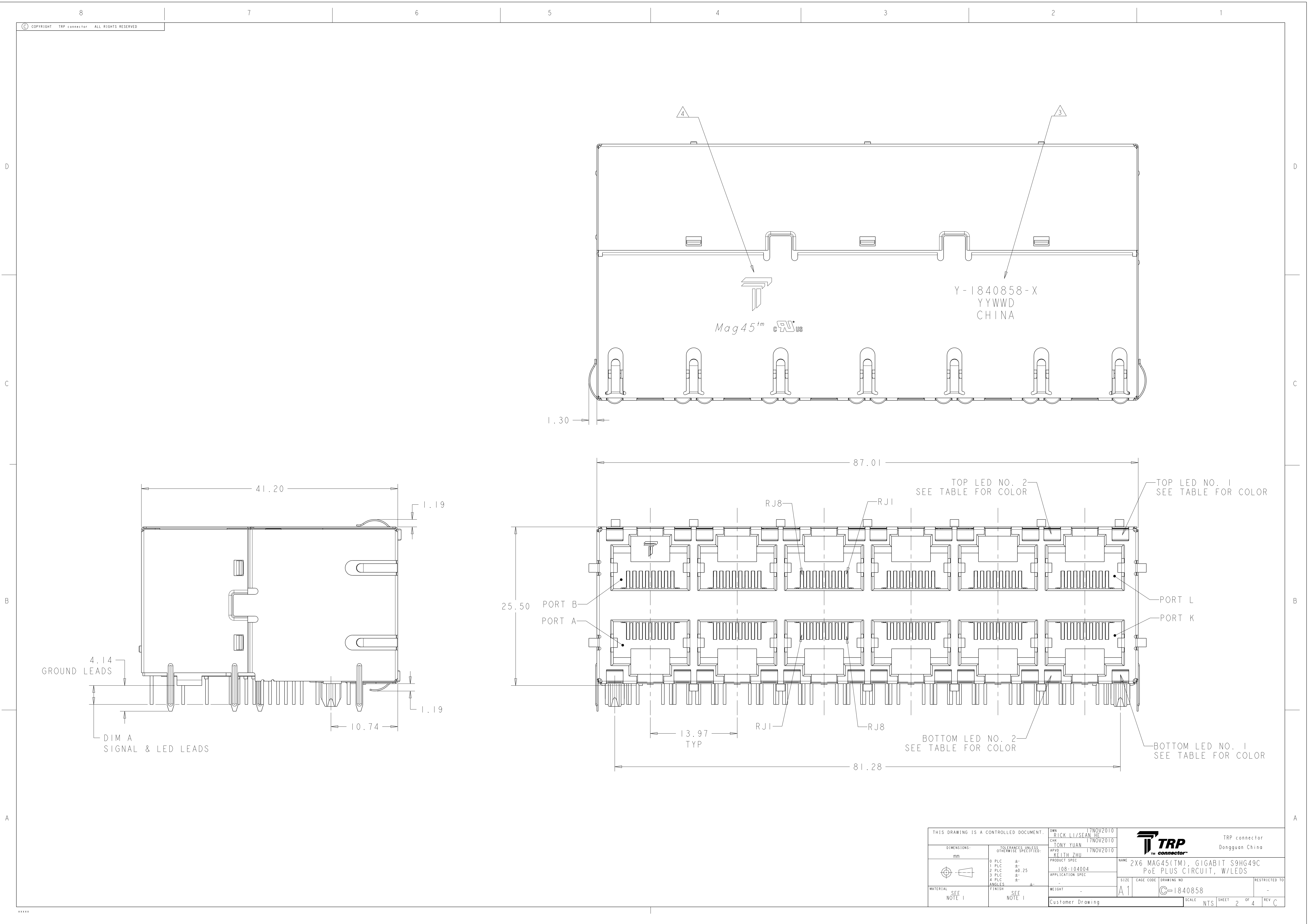


C1-C2=10nF, 50V, CAPACITORS
C3-C6=22nF, 100V, CAPACITORS
C7=1000pF, 3KV, CAPACITOR
C8=68nF, 100V, CAPACITOR
R1-R4=75 OHMS, 1/16W, RESISTORS

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 OR WITH SELECT 0.05um MIN GOLD OVER
0.76um MIN PALLADIUM-NICKEL 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
2. MAGNETICS:
APPLICATION: 10/100/1000 BASE-T, PoE PLUS
IMPEDANCE: 100ohms
TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100KHz, 0.1VRMS,
20mA DC BIAS FROM 0°C TO 70°C, ACROSS RJ1 ~ RJ2 & RJ3 ~ RJ6;
8mA DC BIAS FROM 0°C TO 70°C, ACROSS RJ4 ~ RJ5 & RJ7 ~ RJ8.
ALL FOUR PAIRS BI-DIRECTIONAL
POE CURRENT: 600mA DC MAX
PERFORMANCE @25°C:
INSERTION LOSS (IL): 1.1dB MAX FROM 1.0MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 1.0MHz TO 40MHz
12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 1.0MHz TO 40MHz
33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
COMMON MODE REJECTION RATIO (CMRR):
30dB MIN FROM 1.0MHz TO 100MHz
ISOLATION VOLTAGE: 1500VAC(MAX) AT 60Hz FOR 60 SECONDS WITH ALL PORTS CONNECTED.
3. PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN LOCATED IN APPROXIMATE AREA SHOWN
DATE CODE: YYWW WHERE "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. 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 (LD): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
DOMINANT WAVELENGTH (LD): YELLOW 588 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
11. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C
FOR 10 SECONDS

YES	3.81	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	4-1840858-4
NO	3.04	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	9-1840858-4
YES	2.60	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	2-1840858-4
NO	2.79	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	1-1840858-4
YES	3.04	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	1840858-4
SIDE TAB	DIM A	BOTTOM LED NO. 2	BOTTOM LED NO. 1	TOP LED NO. 2	TOP LED NO. 1	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 17NOV2010 RICK I/SEAN H CHK TONY YUAN 17NOV2010 APVD JETH ZHU		 TRP connector Dongguan China	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±. 2 PLC #0.25 3 PLC ±. 4 PLC ±. ANGLES ±.		NAME 2X6 MAG45(TM), GIGABIT S9HG49C POE PLUS CIRCUIT, W/LEDs	
		PRODUCT SPEC 108-104004 APPLICATION SPEC		SIZE CAGE CODE DRAWING NO RESTRICTED TO A1 C-1840858	
MATERIAL SEE NOTE 1 FINISH SEE NOTE 1		WEIGHT - Customer Drawing		SCALE NTS SHEET 1 OF 4 REV	

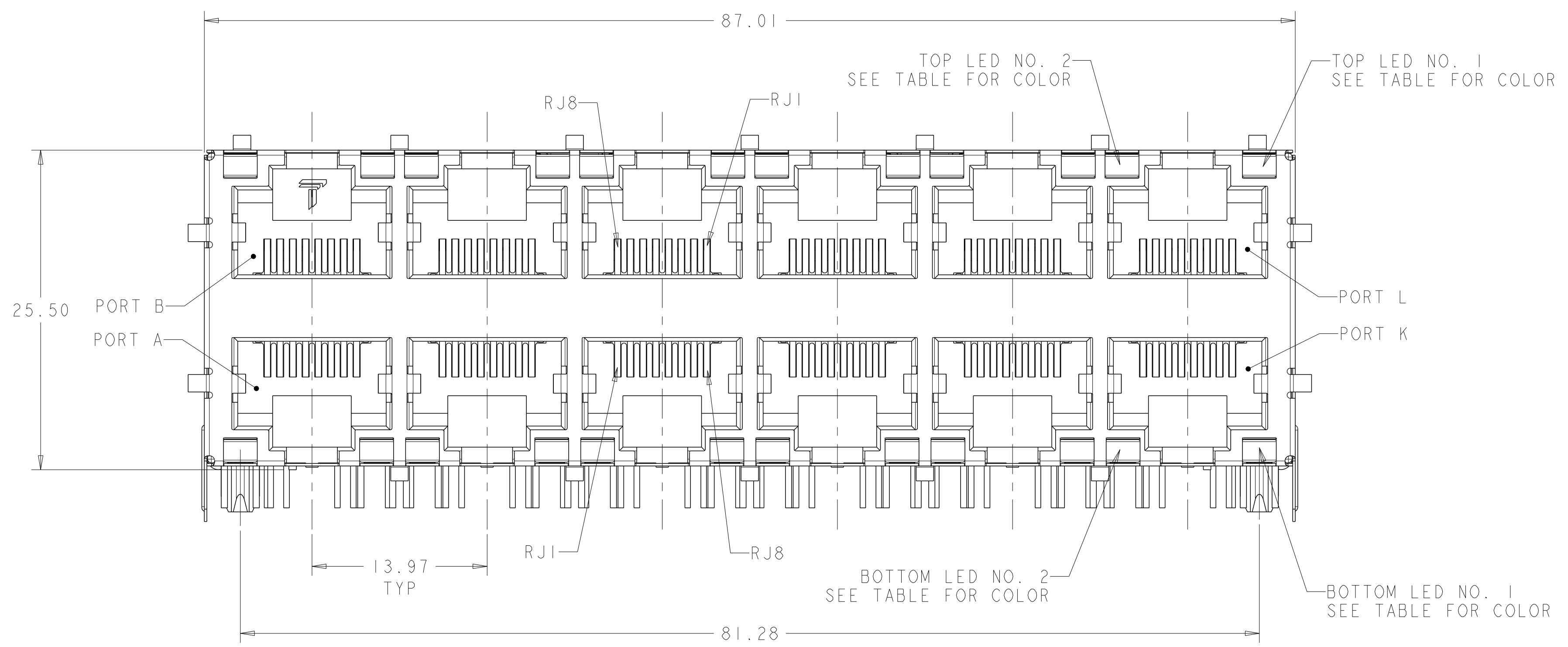
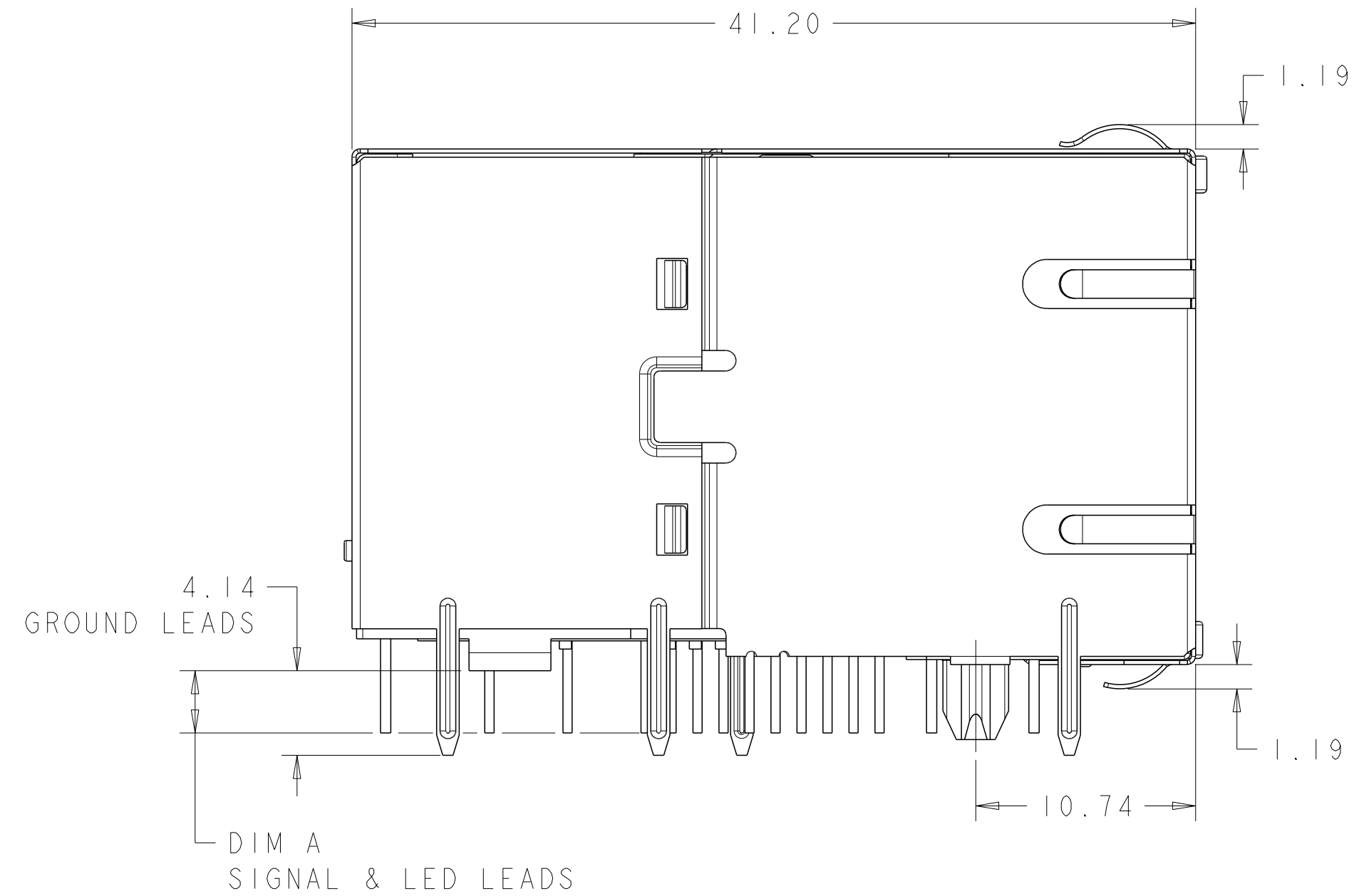


8 7 6 5 4 3 2 1

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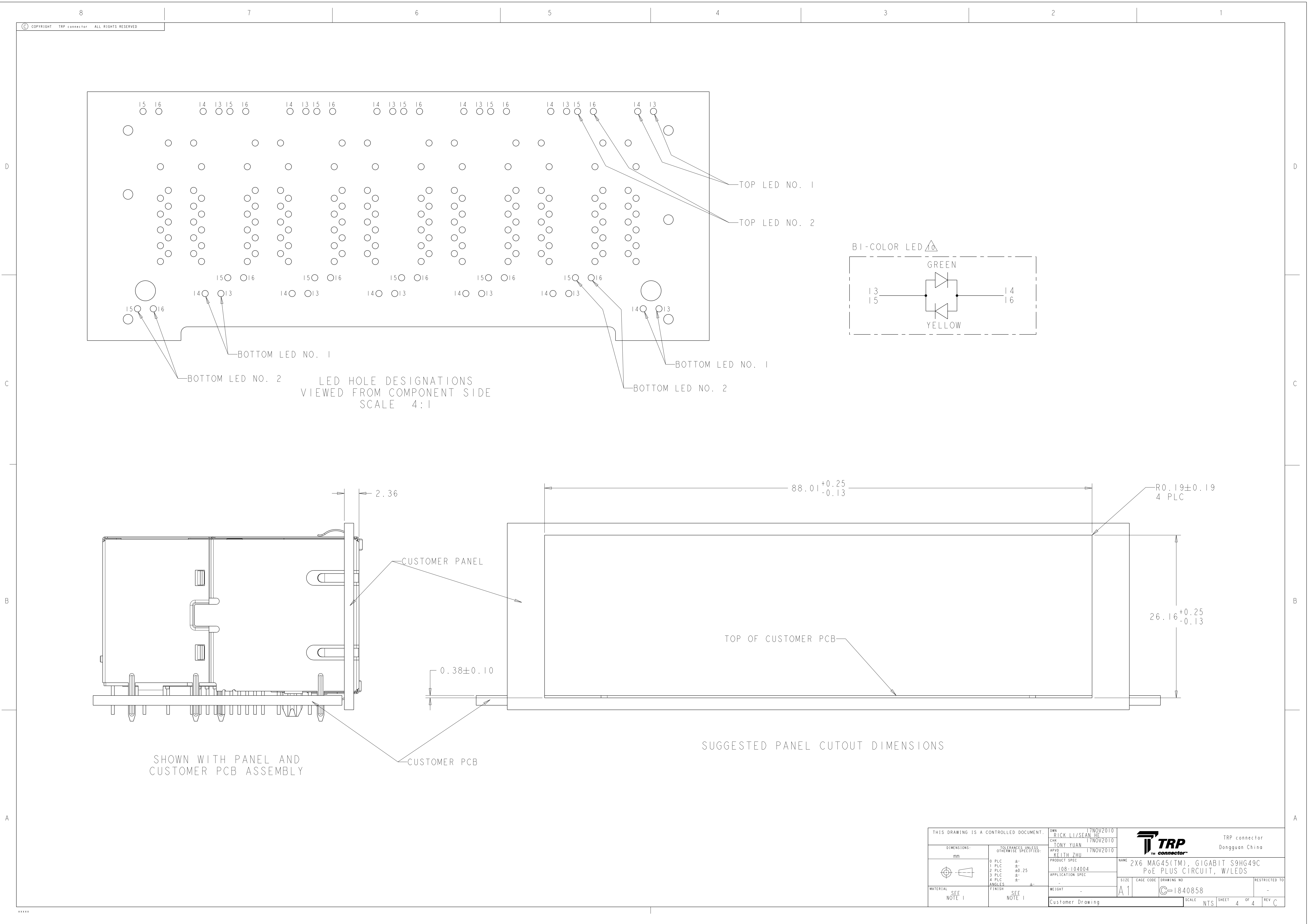
Mag45™

Y-1840858-X
YYWWD
CHINA



THIS DRAWING IS A CONTROLLED DOCUMENT.				DWG 17NOV2010 CHK RICK LI/SEAN HE APPD TONY YUAN KEITH ZHU				TRP connector Dongguan China			
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC		NAME		2X6 MAG45(TM), GIGABIT S9HG49C			
mm		0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ±		APPLICATION SPEC		SIZE		108-104004			
MATERIAL		FINISH		WEIGHT		CAGE CODE		DRAWING NO			
SEE NOTE 1		SEE NOTE 1		Customer Drawing		A 1		C=1840858			
						SCALE		SHEET 2 OF 4			
								REV C			

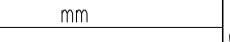




LED HOLE DESIGNATIONS
VIEWED FROM COMPONENT SIDE
SCALE 4:1

SUGGESTED PANEL CUTOUT DIMENSIONS

SHOWN WITH PANEL AND
CUSTOMER PCB ASSEMBLY

THIS DRAWING IS A CONTROLLED DOCUMENT.				DWG: 17NOV2010 RICK LI/SEAN HE CHK: TONY YUAN APVD: KEITH ZHU				TRP connector Dongguan China	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC 108-104004 APPLICATION SPEC		NAME 2X6 MAG45(TM), GIGABIT S9HG49C PoE PLUS CIRCUIT, W/LEDs			
						SIZE A1		CAGE CODE C=1840858	
MATERIAL SEE NOTE 1		FINISH SEE NOTE 1		WEIGHT -		RESTRICTED TO -			
Customer Drawing				SCALE NTS		SHEET 4		OF 4	
								REV C	