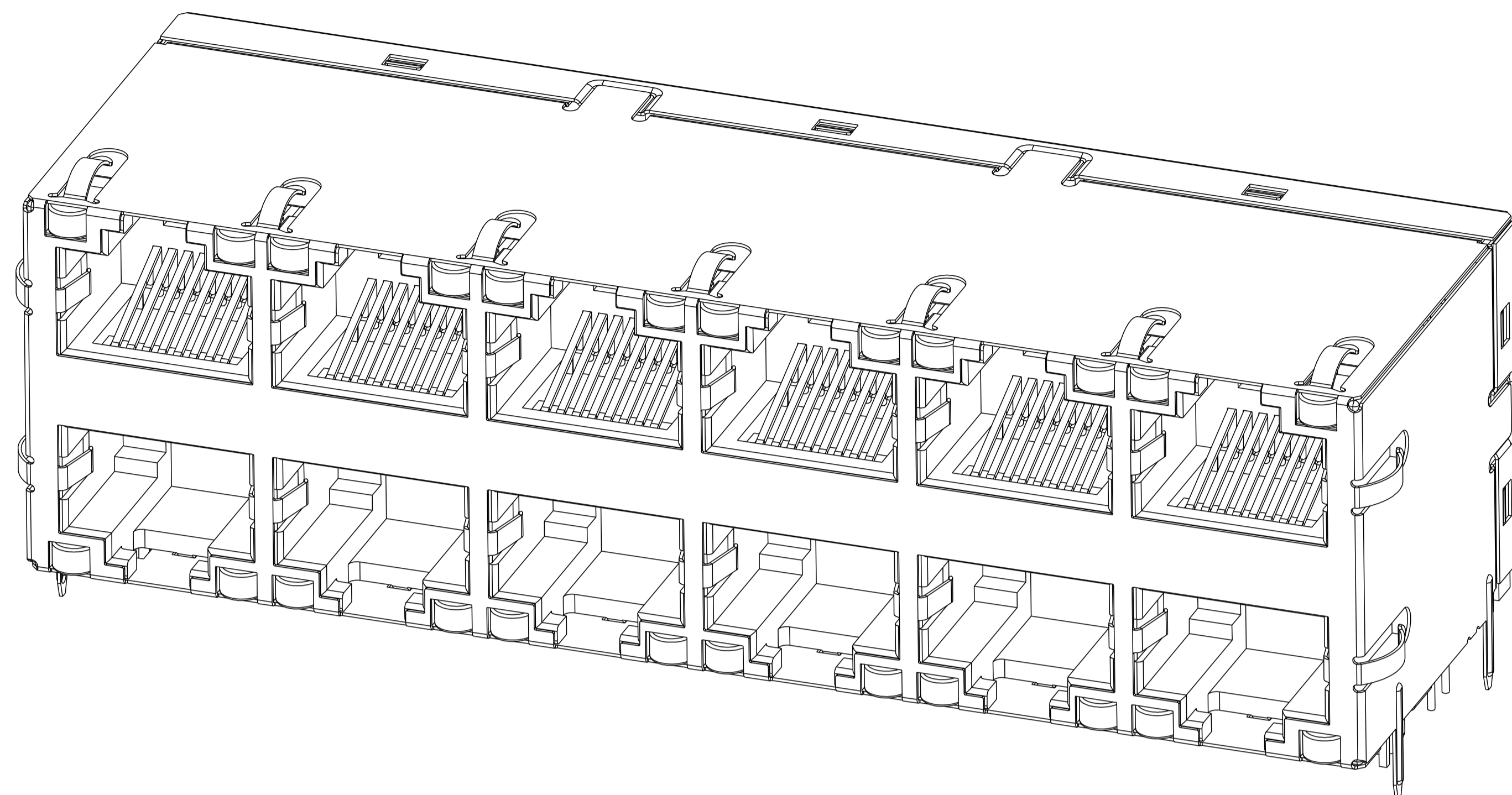
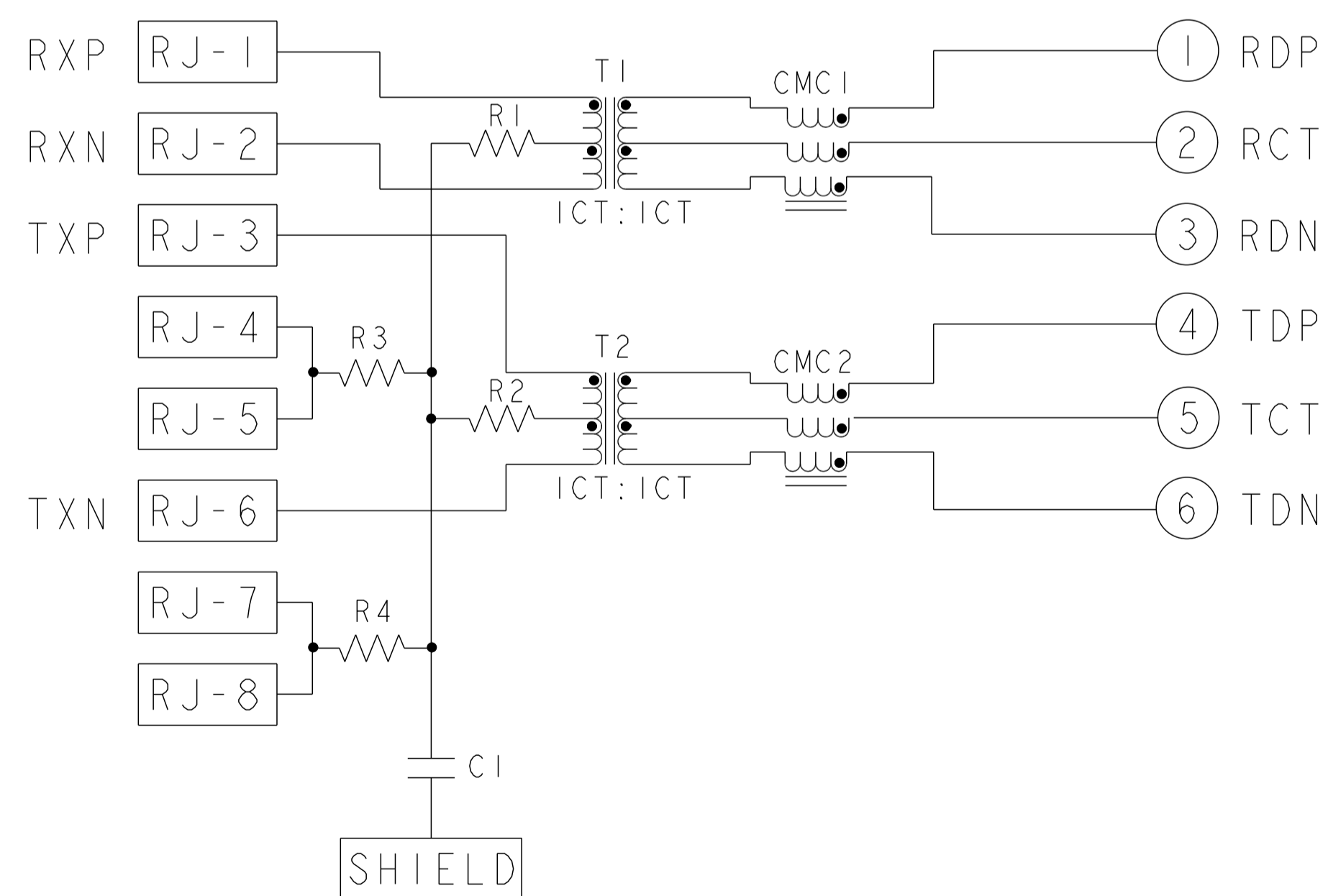


REVISIONS				
P	LTR	DESCRIPTION	DATE	OWN APVD
B		LOGO CHANGE	22APR2013	GZ KZ

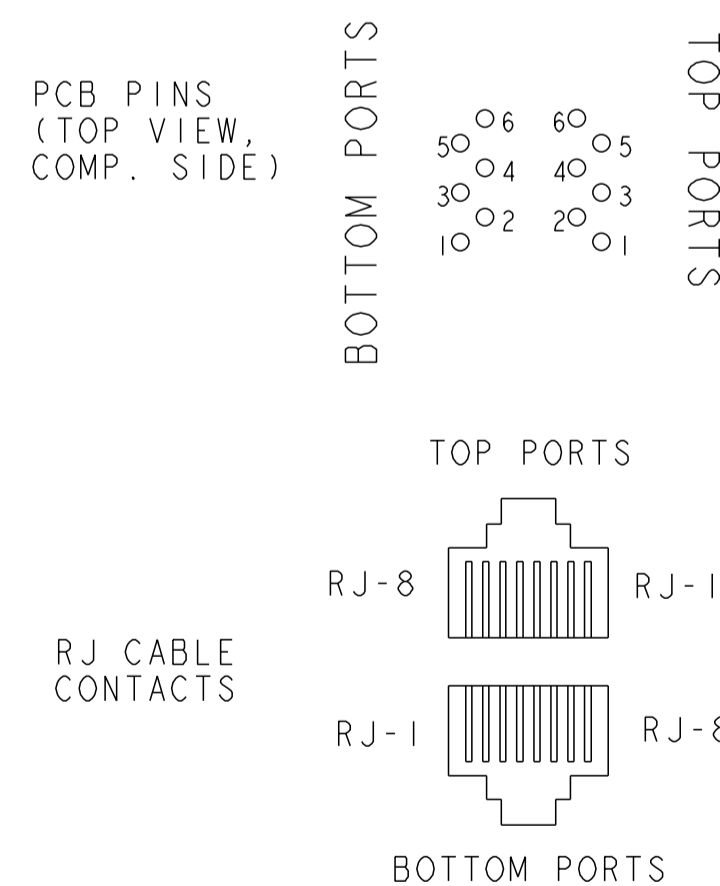


S843P1 10/100 BASE-T CIRCUIT
 TOP AND BOTTOM PORTS



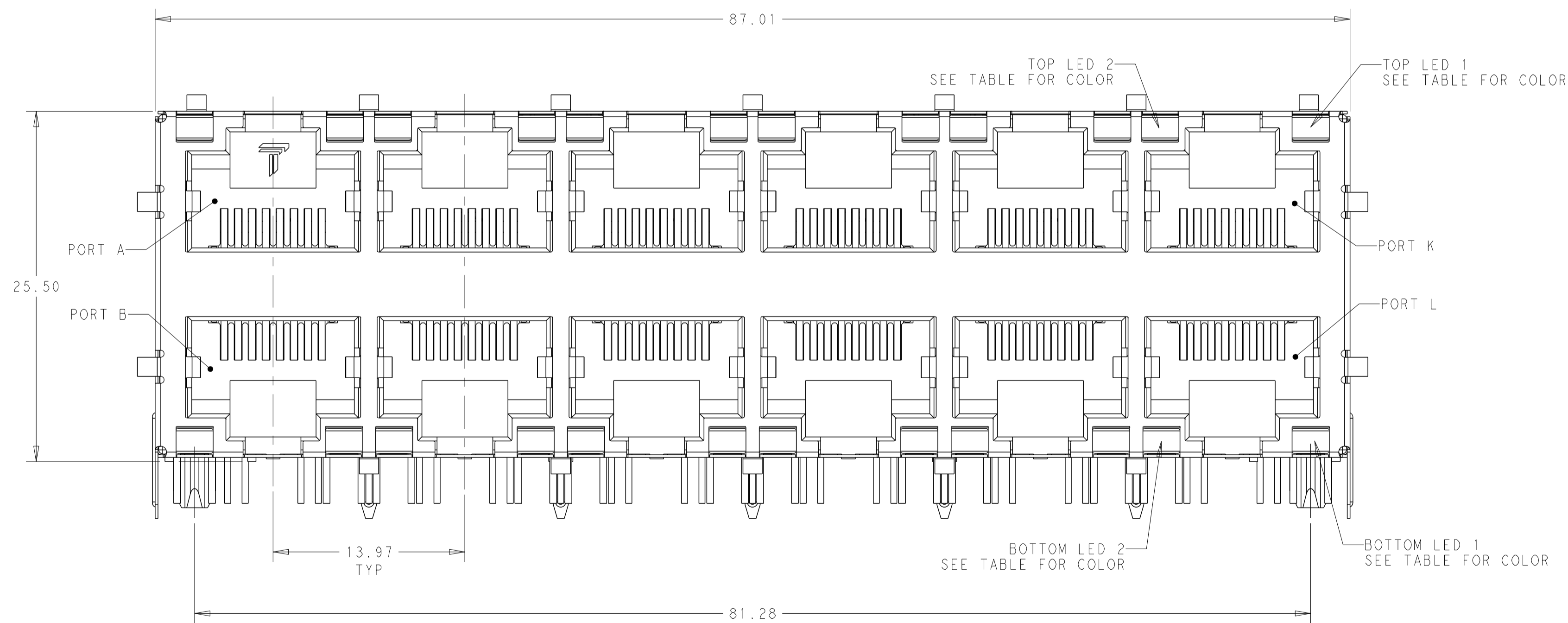
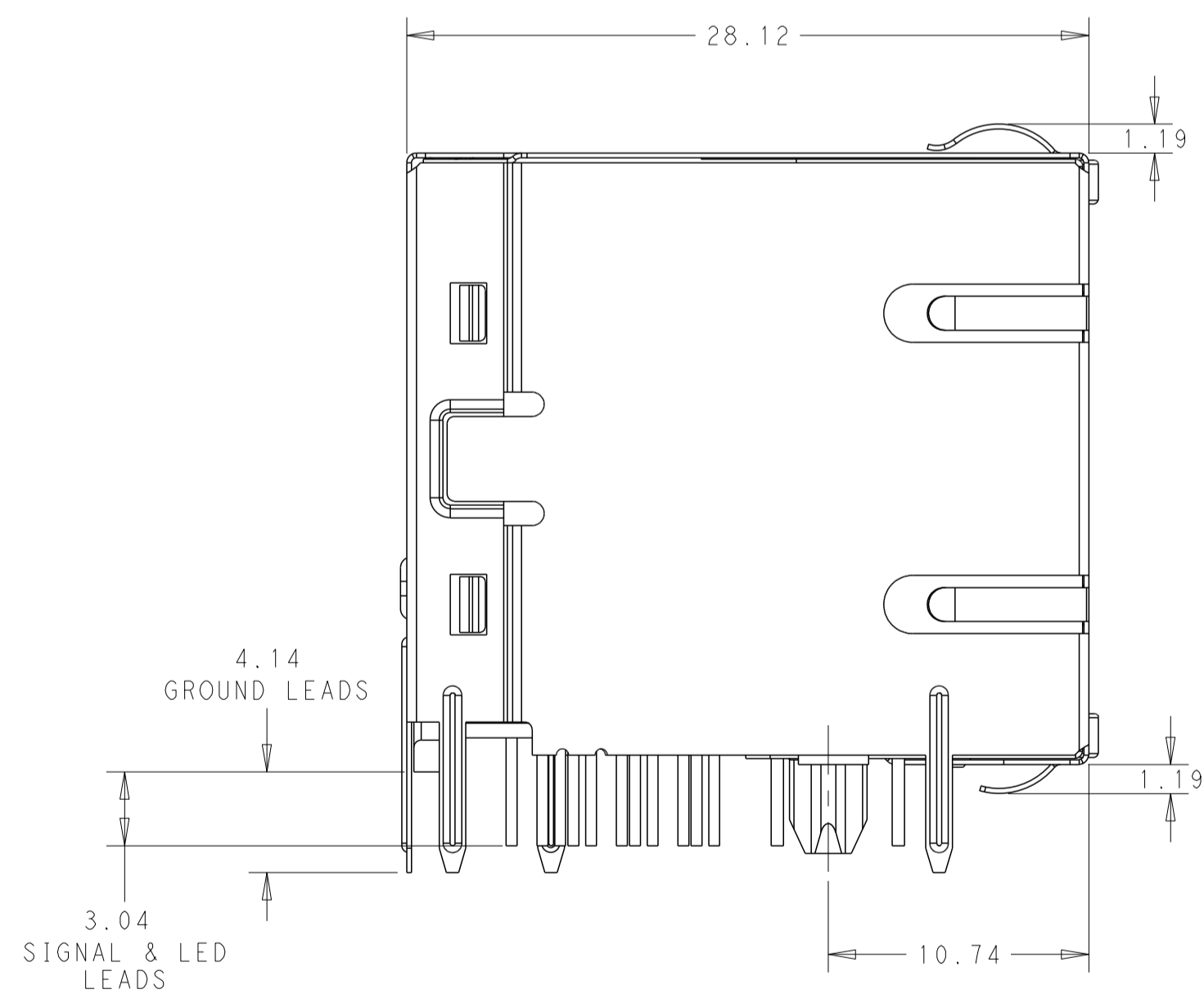
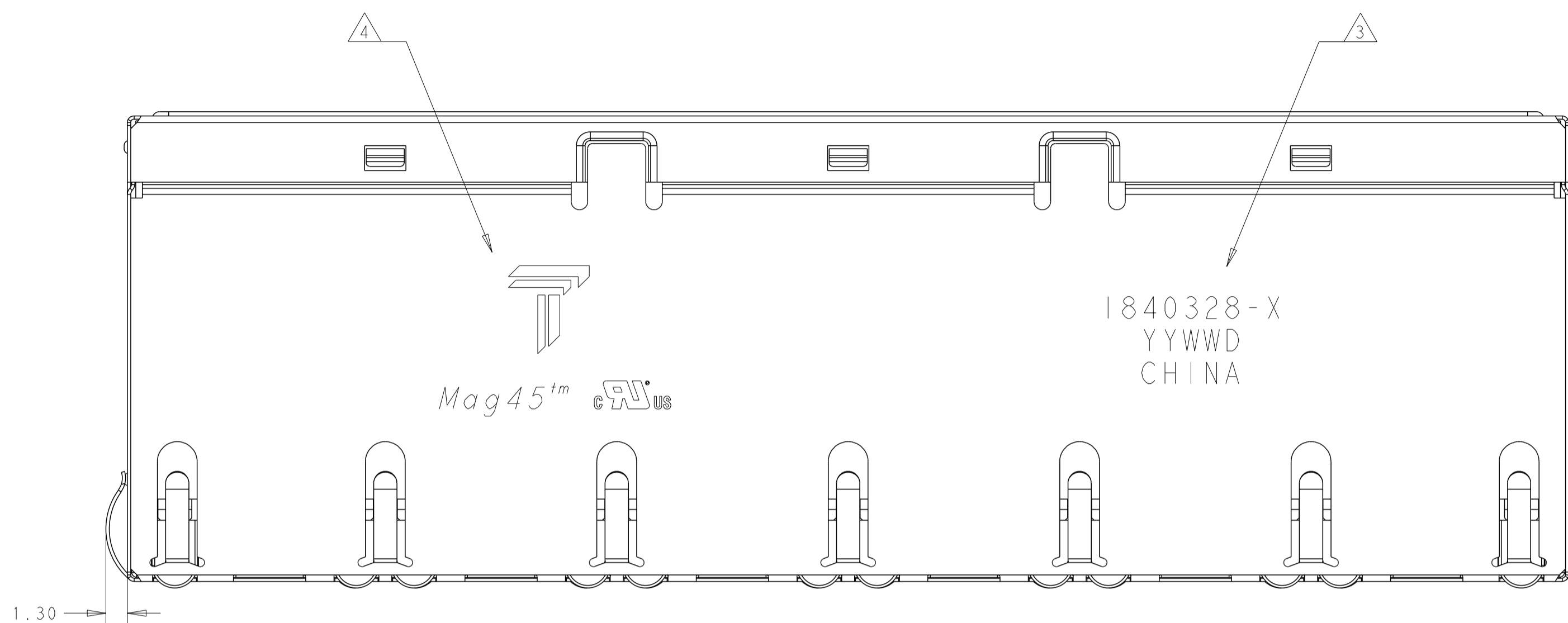
R1 - R4 = 75 Ohms, 1/16W, RESISTORS
 C1 = 1000pF, 2kV CAPACITOR

PIN DESIGNATIONS
 (REPEAT FOR EACH VERTICAL PAIR OF PORTS.)

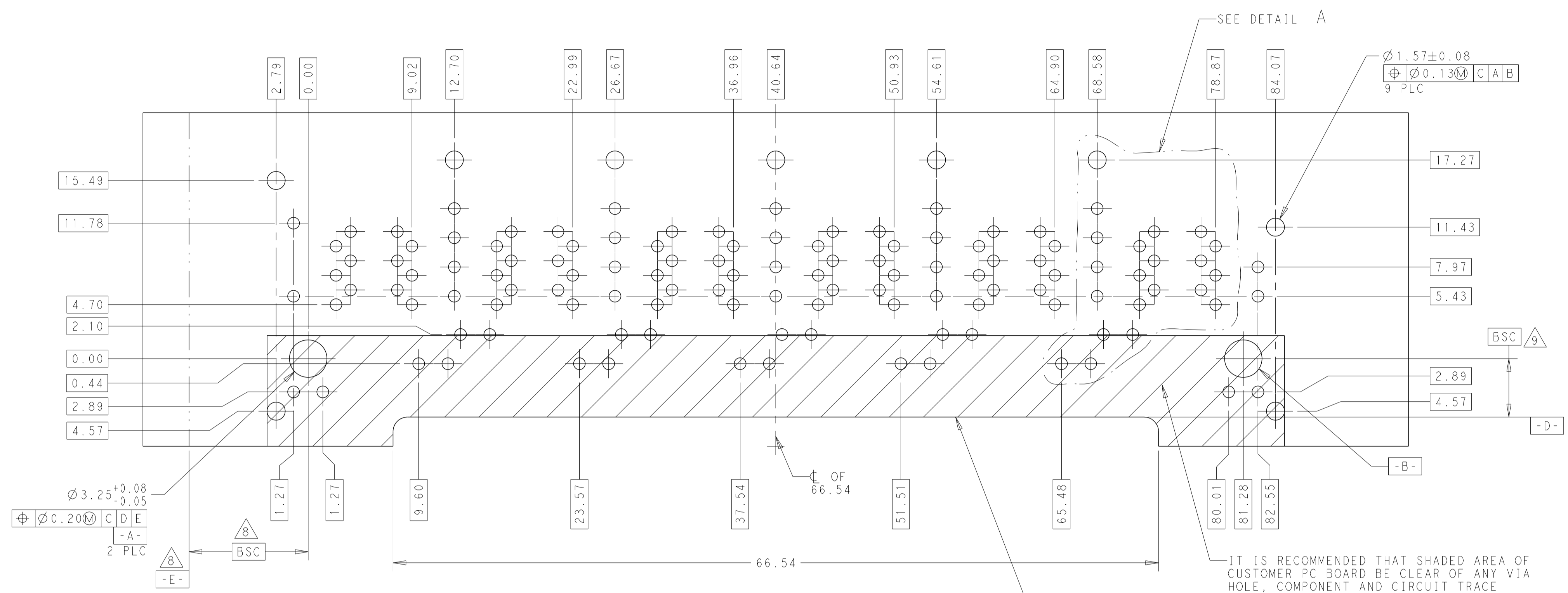


- MATERIALS:
 PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
 SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL,
 POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,
 CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE,
 WITH SELECT 0.05um MIN GOLD OVER 0.76um 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
 ALL PC BOARDS: HIGH TEMPERATURE PCB, TG>170°C
- MAGNETICS
 APPLICATION: 10/100 BASE-T
 IMPEDANCE: 100 OHMS
 TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
 OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
 8mADC BIAS FROM 0°C TO 70°C, TX AND RX
 PERFORMANCE @ 25°C:
 INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
 RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
 18-20LOG(f/30)dB MIN FROM 30.1MHz TO 60MHz
 12dB MIN FROM 60.1MHz TO 80MHz
 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.
- PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE
 LOCATED IN APPROXIMATE AREA SHOWN.
- TRP LOGO AND AGENCY APPROVAL LOGO ARE
 LOCATED IN APPROXIMATE AREA SHOWN.
- OPERATING TEMP: FROM 0°C TO +70°C.
- RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
- INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND
 SUPPORT AUTO-MDI/MDIX.
- DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
- BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE
 GREATER THAN 5.08mm.
- 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
- THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,
 PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

GREEN	GREEN	GREEN	GREEN	1840328-1
BOTTOM LED 2	BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT. DWN: TOMMY REN 03FEB2010 CHN: TONY YUAN 03FEB2010 APVD: KEITH ZHU 03FEB2010				
DIMENSIONS: mm 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± FINISH ±		TOLERANCES UNLESS OTHERWISE SPECIFIED: PRODUCT SPEC: 108-104004 APPLICATION SPEC:		
MATERIAL: -		NAME: 2X6 MAG45(TM), 10/100 S843P1 CIRCUIT WAVE PANEL, GROUND SHIELD, W/ LEADS SIZE: A1 CAGE CODE: - DRAWING NO: 1840328 RESTRICTED TO: -		
CUSTOMER DRAWING		SCALE: 1:1 SHEET 1 OF 4 REV B		



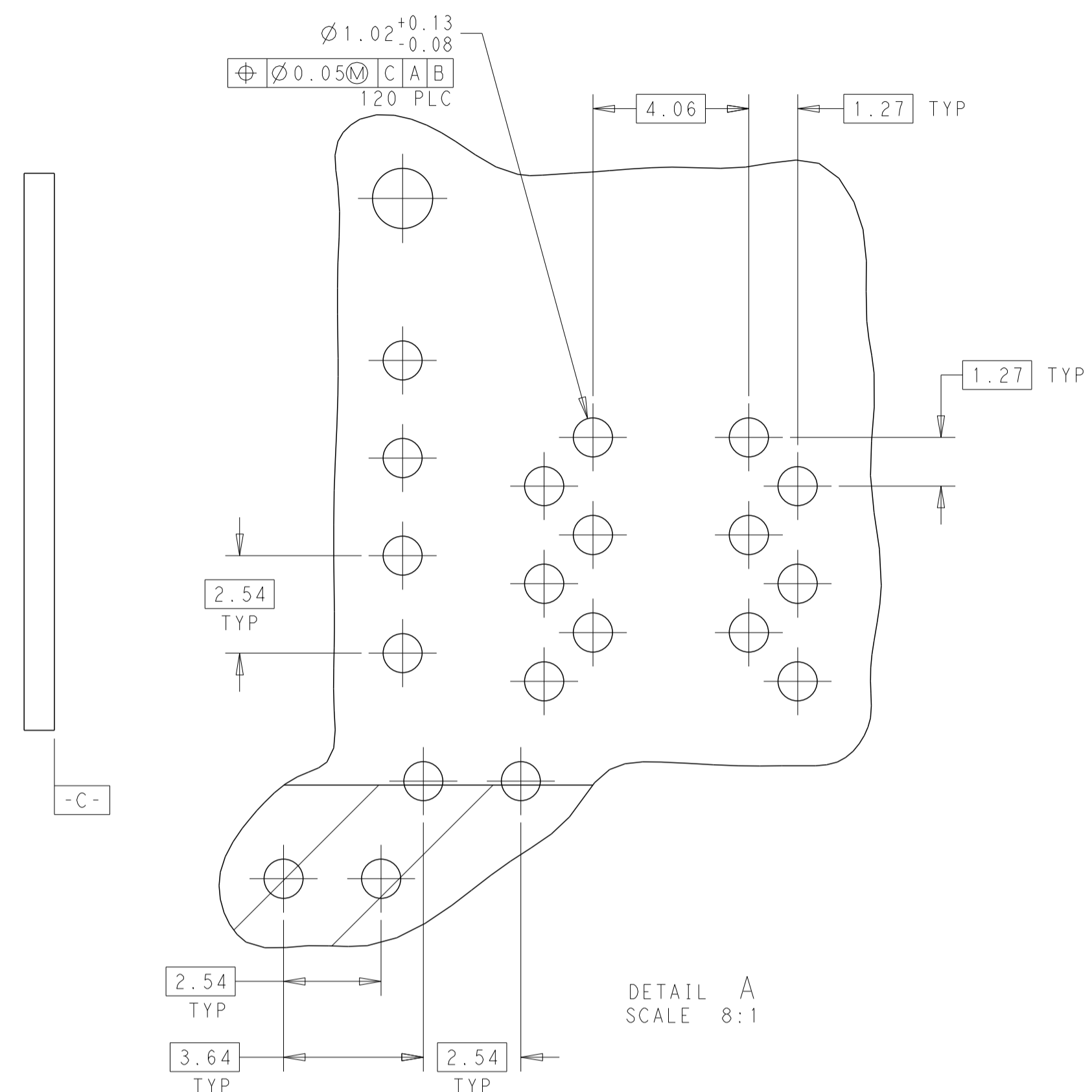
THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE	03FEB2010	 TRP connector Dongguan China
DRAWN BY		TOMMY REN	03FEB2010	
CHECKED BY		TONY YUAN	03FEB2010	
APPROVED BY		KEITH ZHU	03FEB2010	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME
mm		mm		2X6 MAG45(TM), 10/100 S843P1 CIRCUIT
0 PLC	±	0 PLC	±	WAVE PANEL, GROUND SHIELD, W/ LEDS
1 PLC	±	1 PLC	±0.25	SIZE
2 PLC	±	2 PLC	±	A1
3 PLC	±	3 PLC	±	CAGE CODE
4 PLC	±	4 PLC	±	DRAWING NO.
ANGLES	±	FINISH	±	1840328
MATERIAL	-	WEIGHT	-	RESTRICTED TO
		CUSTOMER DRAWING		
		SCALE	1:1	SHEET
				2
				4
				REV
				B



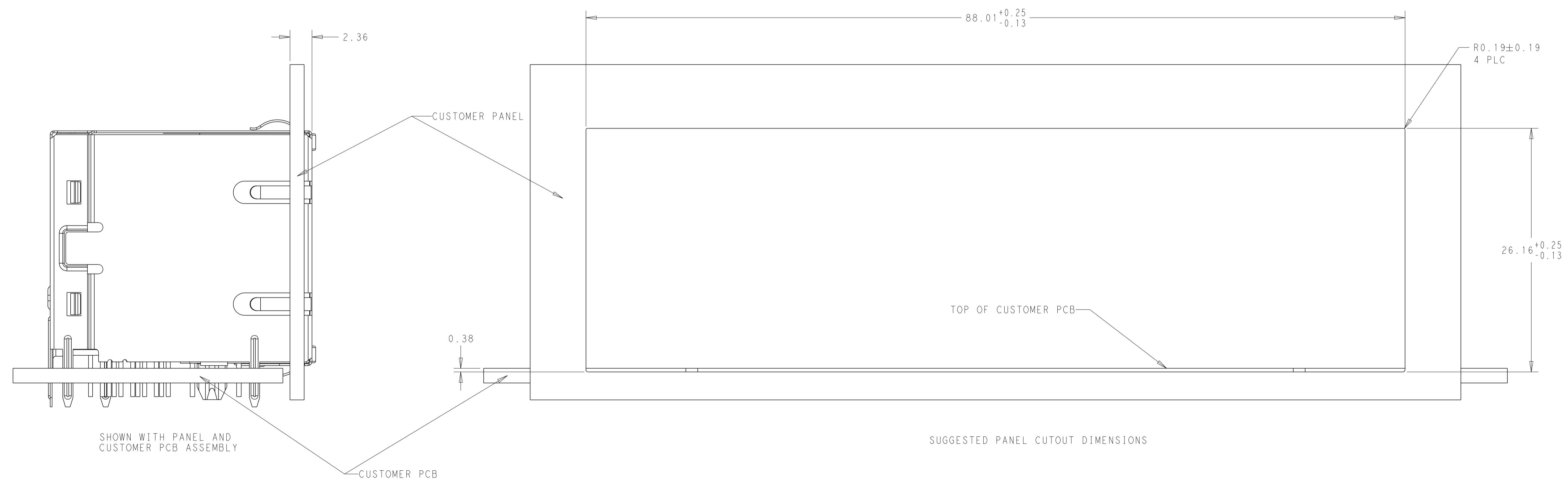
RECOMMENDED PCB LAYOUT COMPONENT SIDE VIEW

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

RECOMMENDED PCB FRONT EDGE CUTOUT: THE BOTTOM SHIELD GROUND TABS(FRONT) SHOULD NOT BE SEATED ON THE TOP OF THE PCB

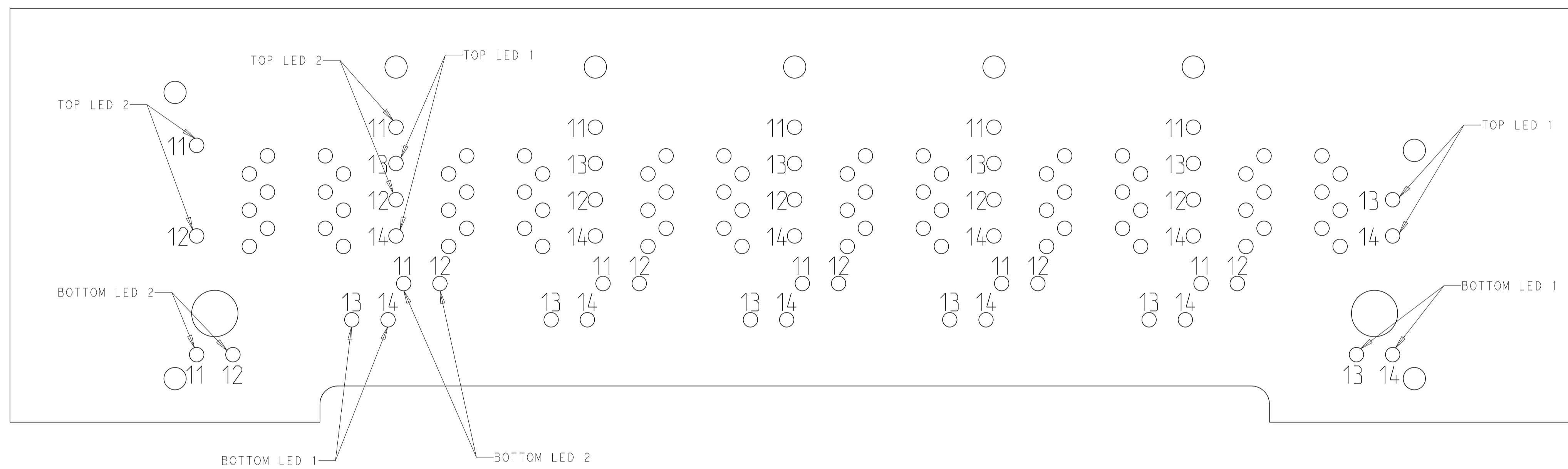


DETAIL A SCALE 8:1



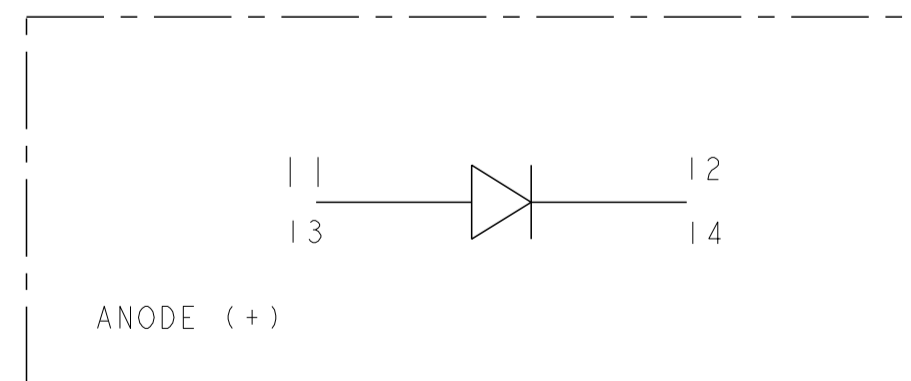
SUGGESTED PANEL CUTOUT DIMENSIONS

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG: TOMMY REN 03FEB2010		TRP connector Dongguan China	
		CHK: TONY YUAN 03FEB2010			
		APVD: KEITH ZHU 03FEB2010		NAME: 2X6 MAG45(TM), 10/100 S843P1 CIRCUIT WAVE PANEL, GROUND SHIELD, W/ LEDS	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC: 108-104004	
				APPLICATION SPEC:	
				SIZE: A1	
				CAGE CODE: 1840328	
				RESTRICTED TO:	
				CUSTOMER DRAWING	
				SCALE: 4:1 SHEET 3 OF 4 REV B	



LED HOLE DESIGNATIONS
VIEWED FROM COMPONENT SIDE

SINGLE COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE	TOMMY REN	03FEB2010	 TRP connector Dongguan China
DIMENSIONS:		CHK	TONY YUAN	03FEB2010	
mm		APVD	KELTH ZHU	03FEB2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	NAME		
0 PLC	±	108-104004	2X6 MAG45(TM), 10/100 S843P1 CIRCUIT		
1 PLC	±	APPLICATION SPEC	WAVE PANEL, GROUND SHIELD, W/ LEDS		
2 PLC	±0.25		SIZE	A1	RESTRICTED TO
3 PLC	±		CAGE CODE		
4 PLC	±		DRAWING NO	C=1840328	
ANGLES	±		SCALE	5:1	
MATERIAL			WEIGHT		
FINISH			CUSTOMER DRAWING		
		SHEET		4	OF 4
		REV		B	