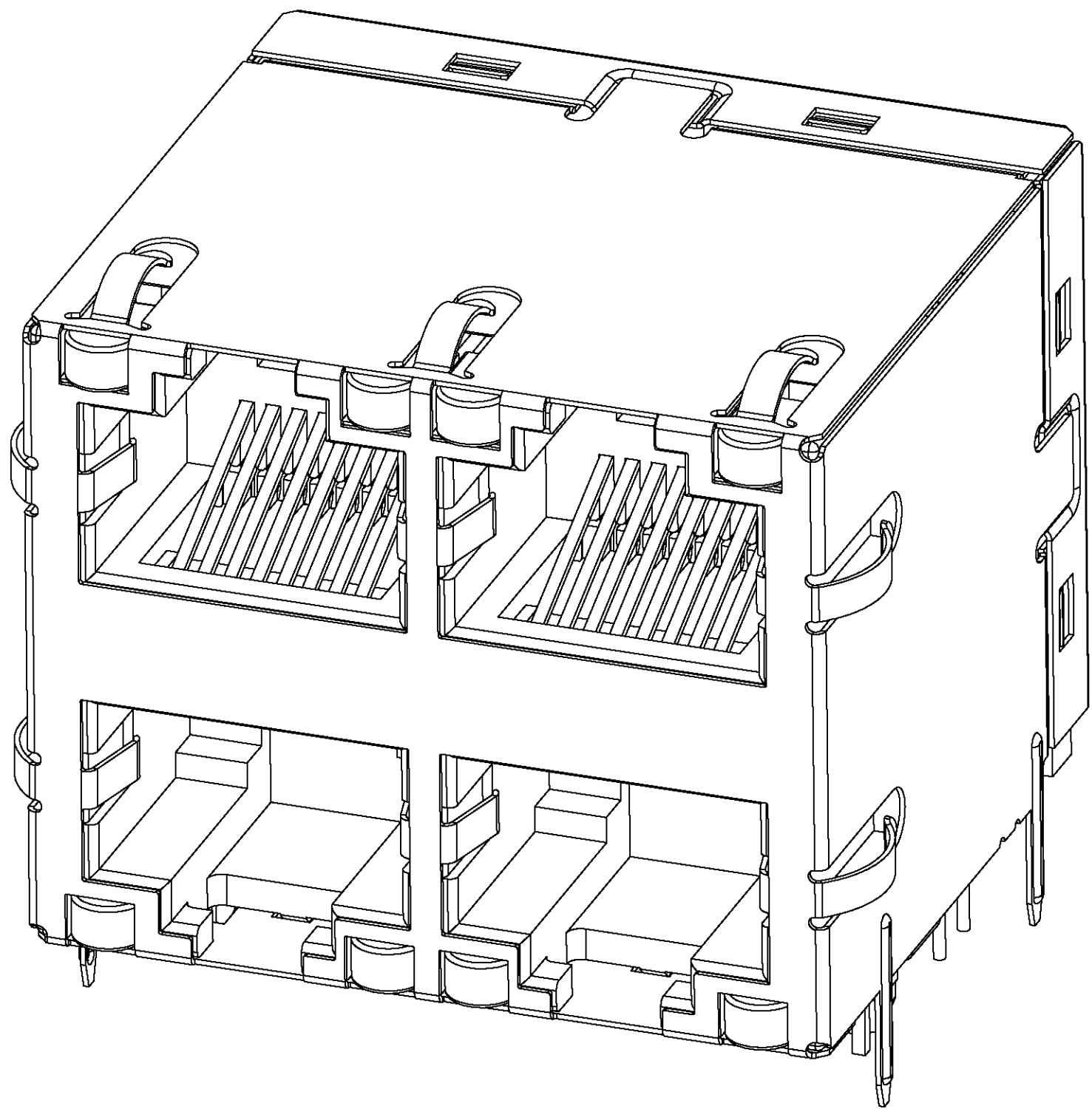
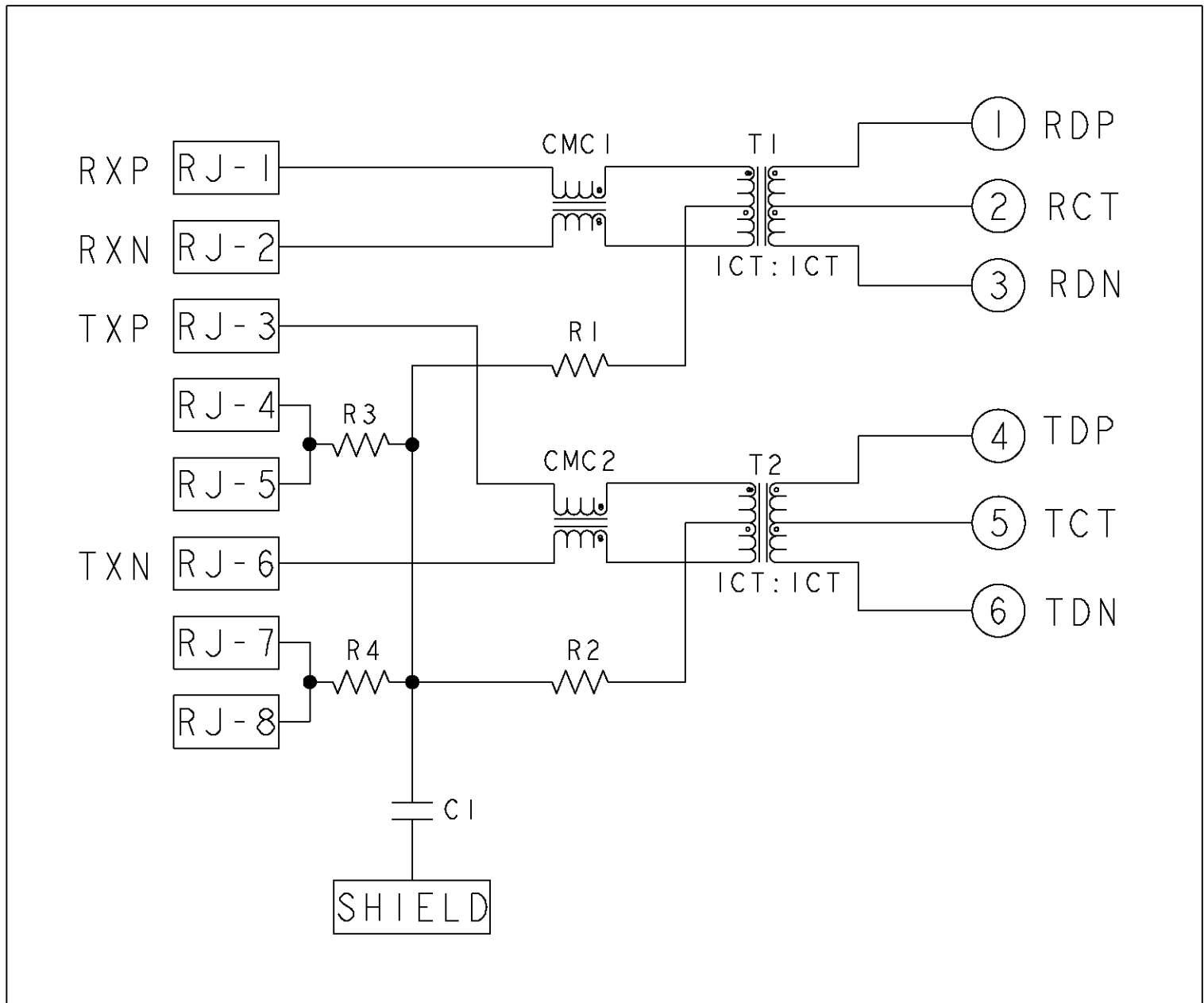


LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
AA	00	1		INITIAL RELEASE	09JAN2012	TR	KZ
		A		ECO-12-003717	07FEB2012	GZ	KZ



S866P1 10/100 CIRCUIT
TOP AND BOTTOM PORTS



C1 = 1000pF, 2kV, X7R DECOUPLING CAP
R1-R4 = 75 Ohms, 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 SELECTED 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 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.

3. PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE
LOCATED IN APPROXIMATE AREA SHOWN. DATE CODE: YYWW WHERE "YY" IS YEAR,
"WW" IS WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1.

4. TE 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.

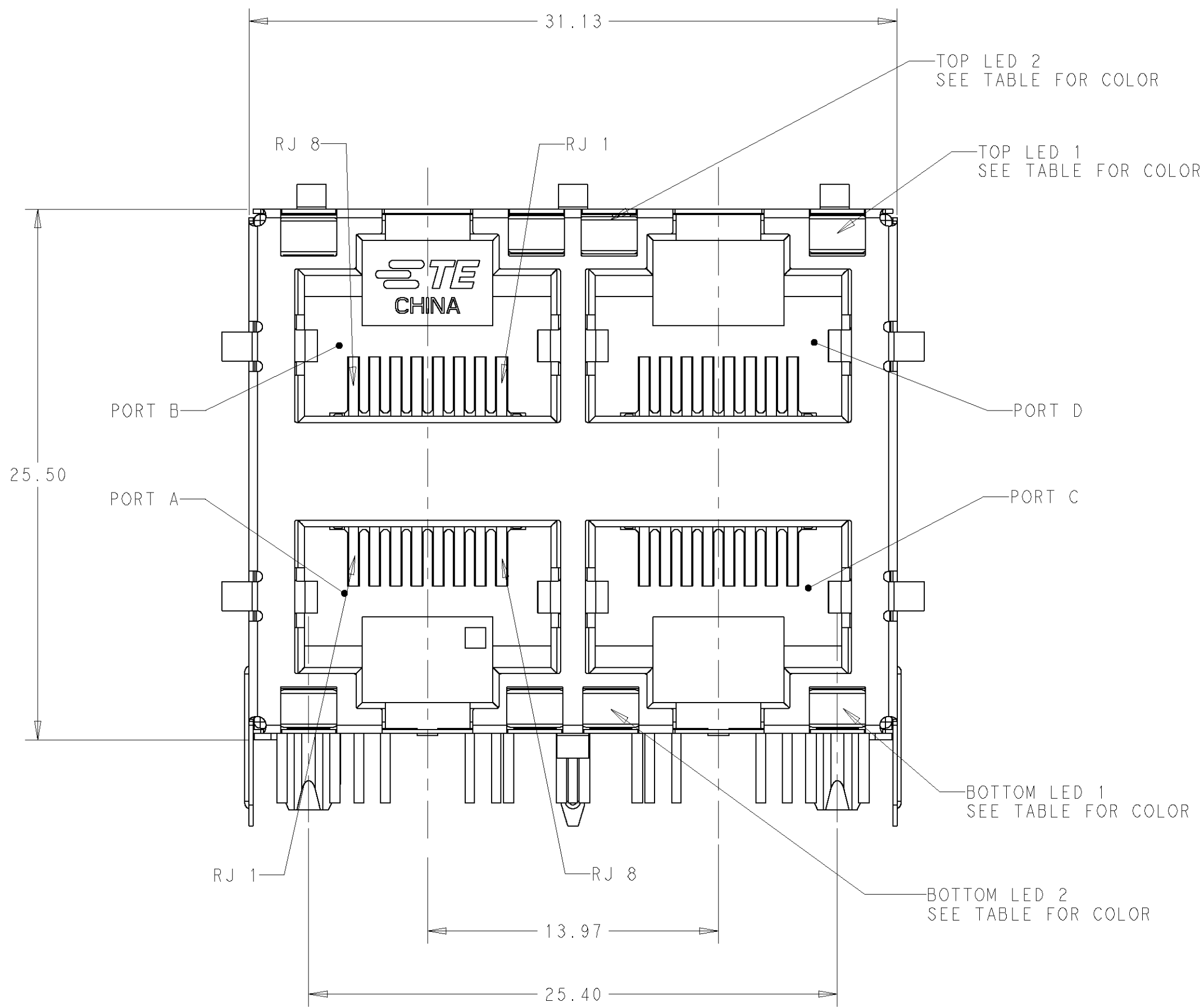
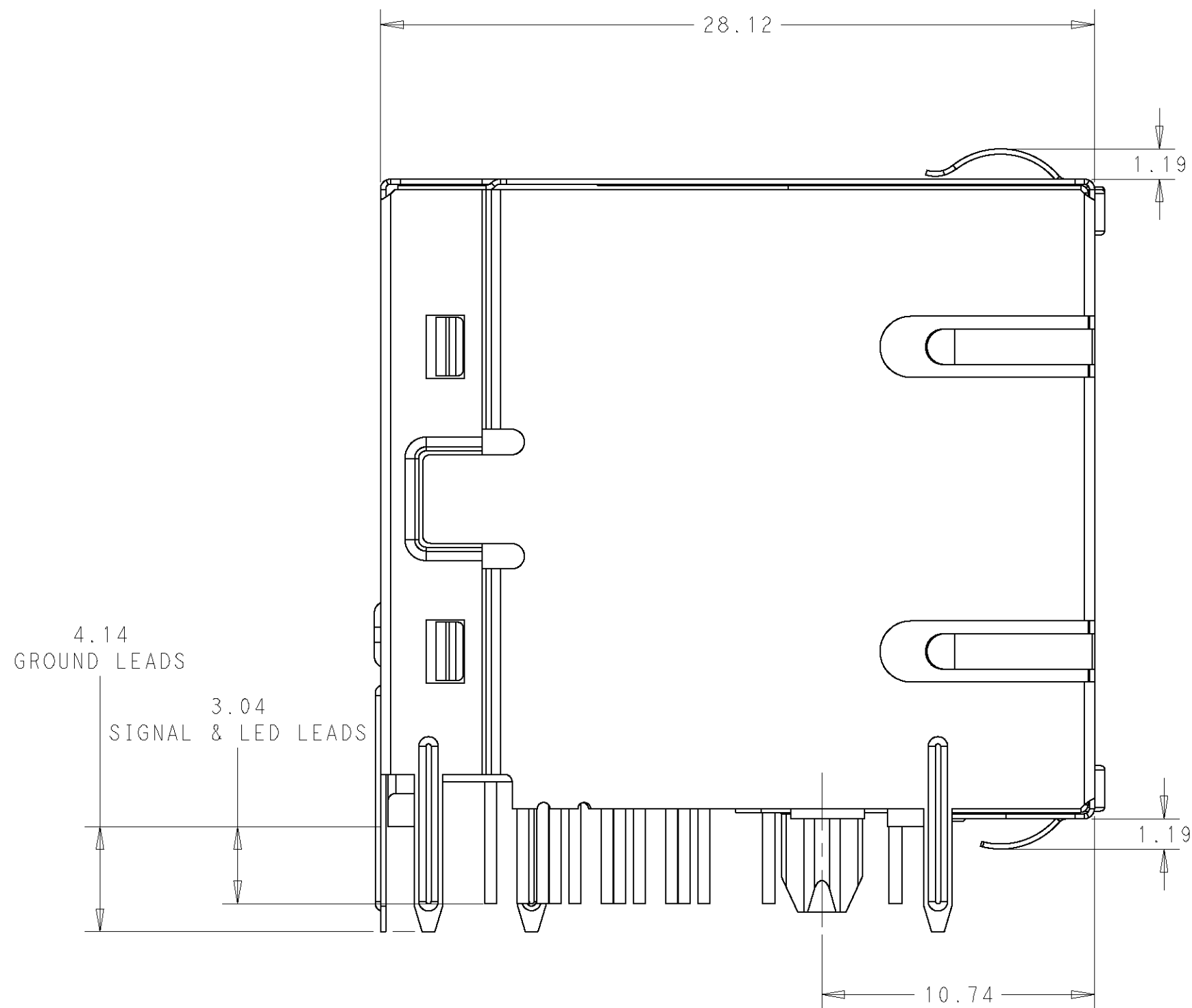
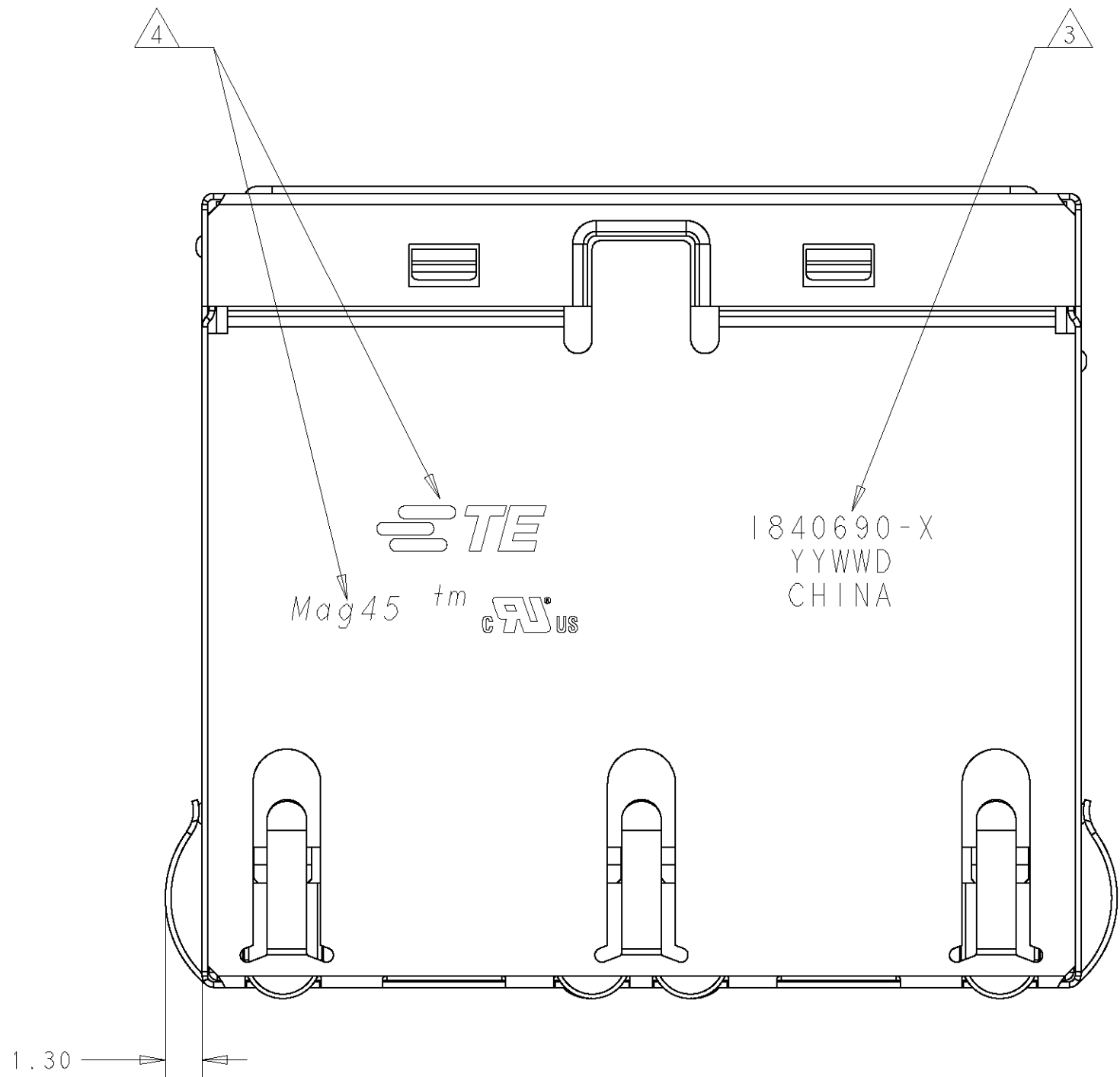
10. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA

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

GREEN	YELLOW	GREEN	YELLOW	1840690-3
BOTTOM LED 2	BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER

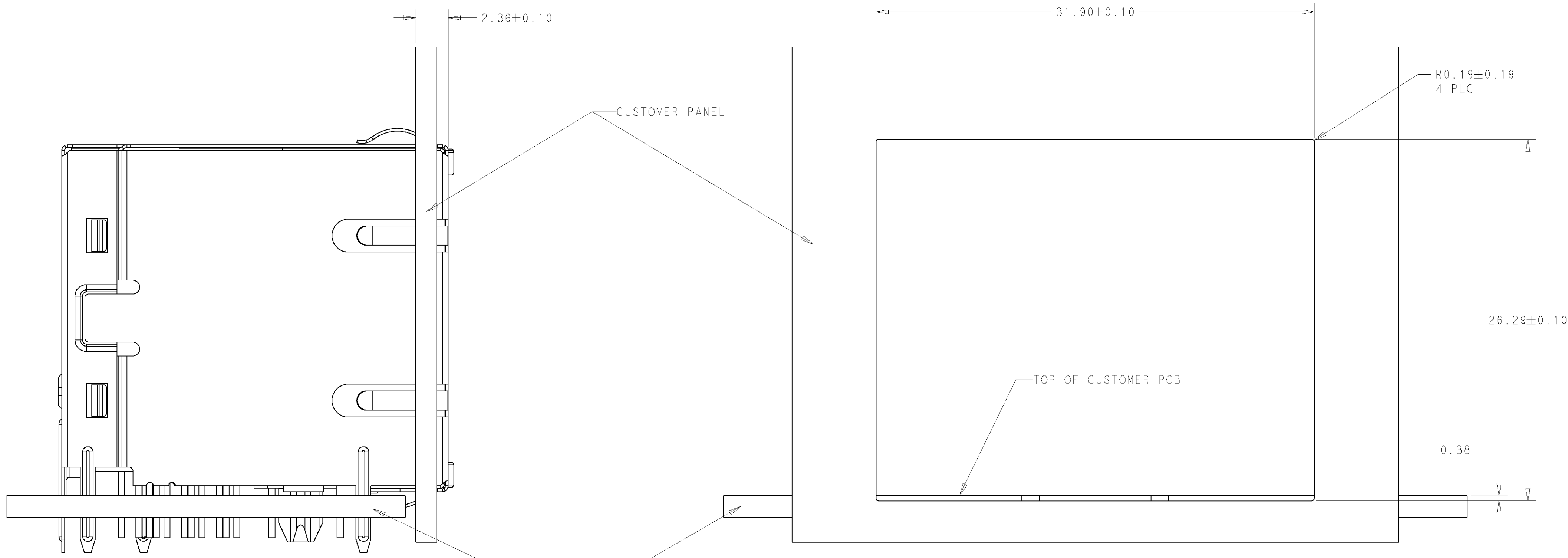
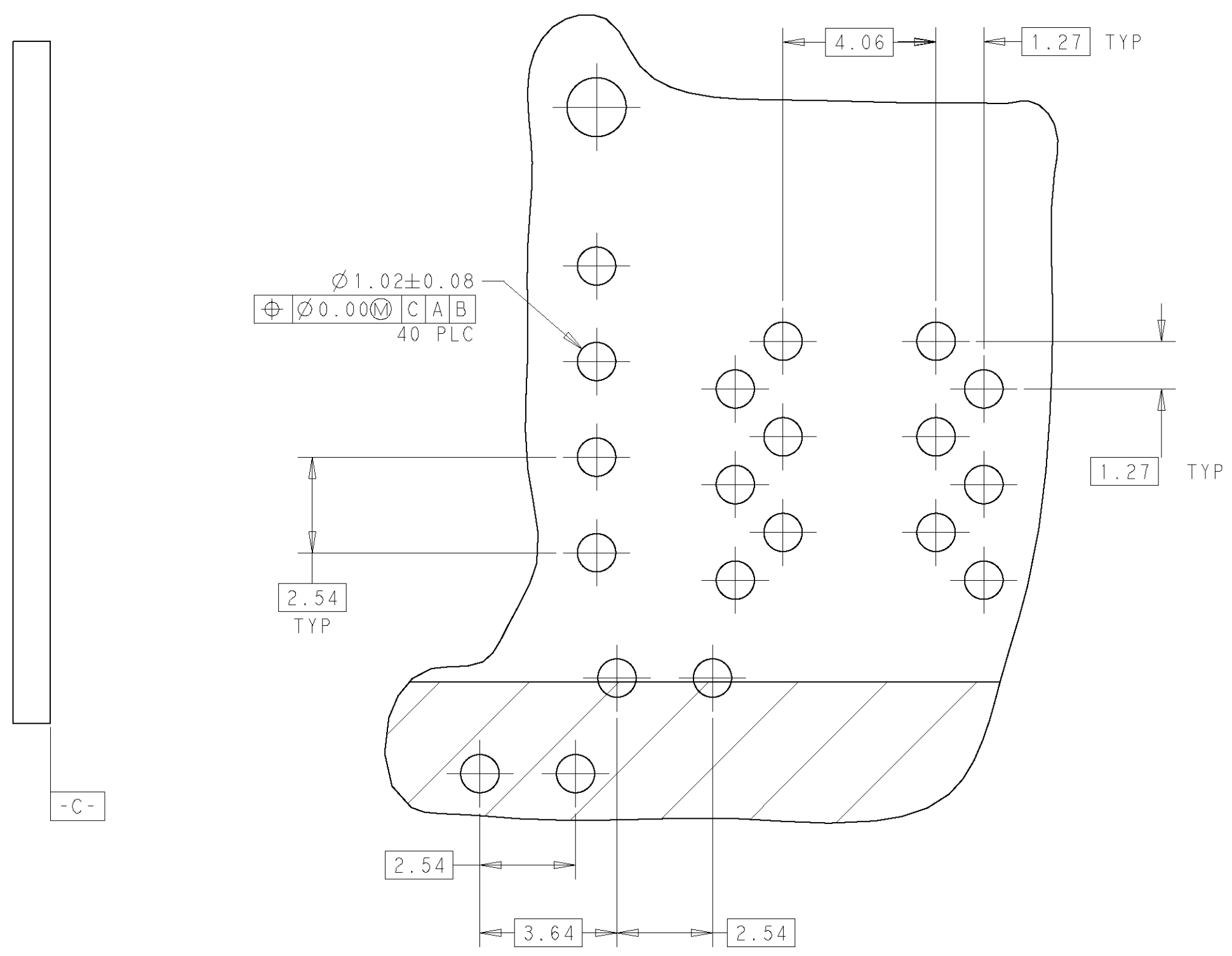
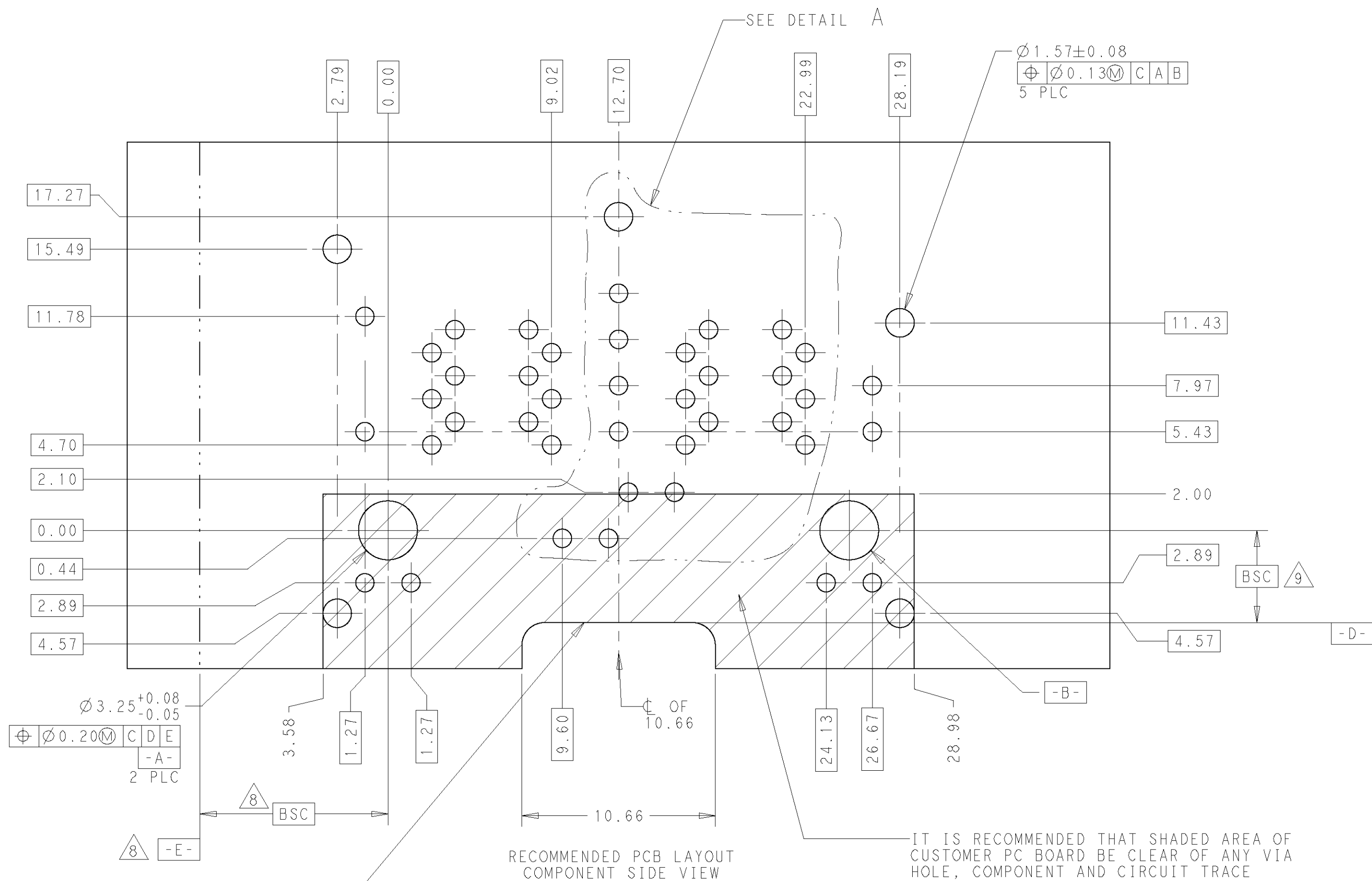
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN, TERRY LIN 09JAN2012	 TE Connectivity						
		CHK TONY YUAN 09JAN2012							
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME 2X2 MAG45(TM), 10/100 S866P1 CIRCUIT WAVE PANEL, GROUND SHIELD, W/ LED - -					
		0 PLC ±							
		1 PLC ±	±0.25						
		2 PLC ±							
3 PLC ±									
4 PLC ±									
ANGLES		±							
FINISH		-							
MATERIAL		-	WEIGHT	-	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO	
-	-	-	-	A1	100779	C=1840690			
CUSTOMER DRAWING				SCALE	5:1	SHEET	1 OF 4	REV	A

LOC		DIST		REVISIONS					
AA		00		P	LTR	DESCRIPTION	DATE	DWN	APVD
				-		SEE SHEET 1	-	-	-

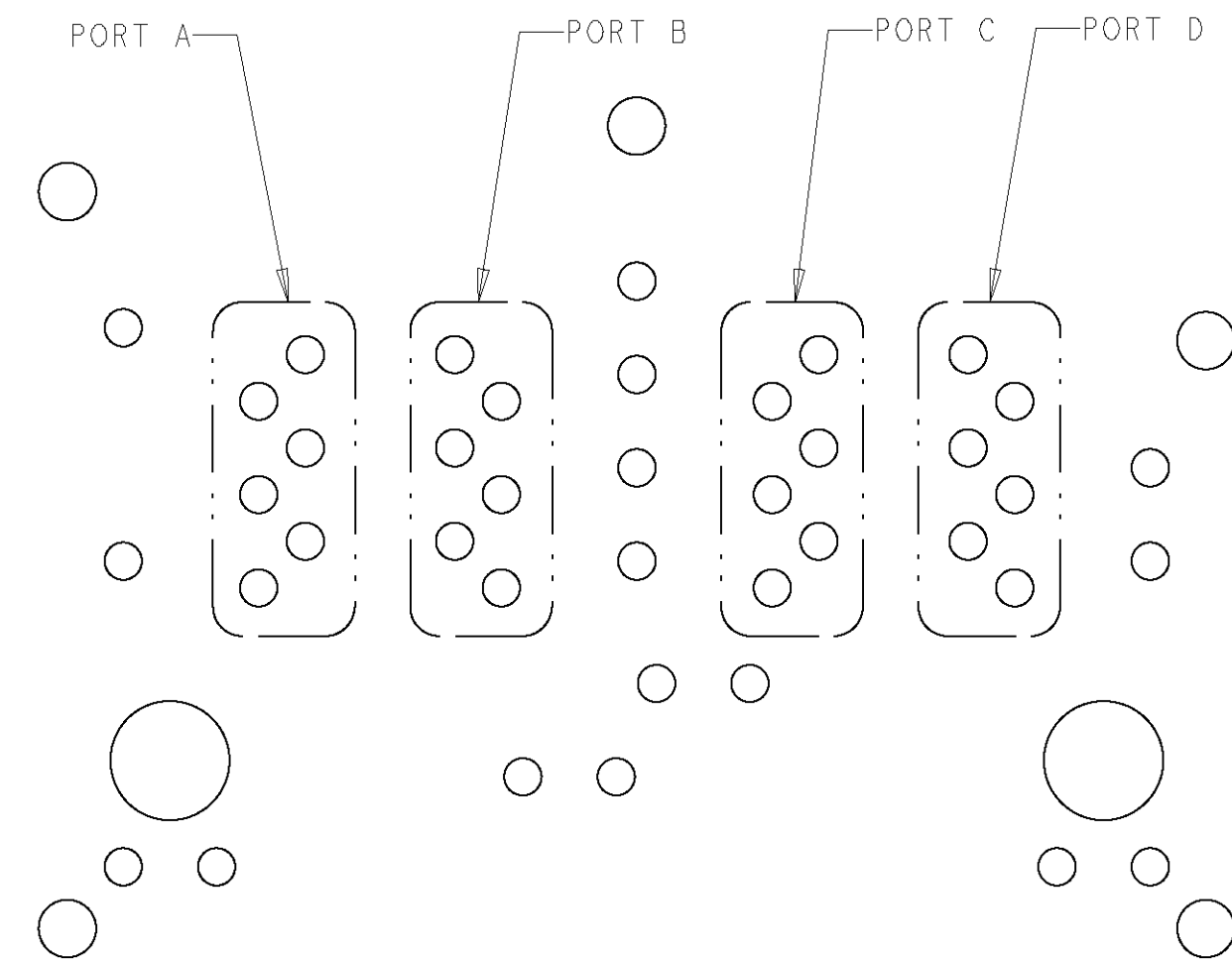


THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN	09JAN2012	STE TE Connectivity		
				CHK	09JAN2012			
				APVD	09JAN2012	NAME		
				PRODUCT SPEC	108-104004	2X2 MAG45(TM), 10/100 S866P1 CIRCUIT		
				APPLICATION SPEC	-	WAVE PANEL, GROUND SHIELD, W/ LED		
				WEIGHT	-	SIZE		
				CUSTOMER DRAWING	SCALE	5:1		
						SHEET		
						2		
						OF		
						4		
						REV		
						A		

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN APVD
AA	00	-	-	SEE SHEET 1	-	-



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 09JAN2012 TOMMY REN, TERRY LIN	STE TE Connectivity	
DIMENSIONS:		CHW 09JAN2012 TONY YUAN		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD 09JAN2012 KEITH ZHU	NAME 2X2 MAG45(TM), 10/100 S866P1 CIRCUIT WAVE PANEL, GROUND SHIELD, W/ LED	
	0 PLC ±	PRODUCT SPEC	SIZE CAGE CODE DRAWING NO	
	1 PLC ±	108-104004	A 100779 C 1840690	
	2 PLC ±	APPLICATION SPEC	RESTRICTED TO	
	3 PLC ±		SCALE 5:1 SHEET 3 OF 4 REV A	
	4 PLC ±		CUSTOMER DRAWING	
	ANGLES			
MATERIAL	FINISH	WEIGHT		
-	-	-		



PORT DESIGNATIONS
VIEWED FROM COMPONENT SIDE

