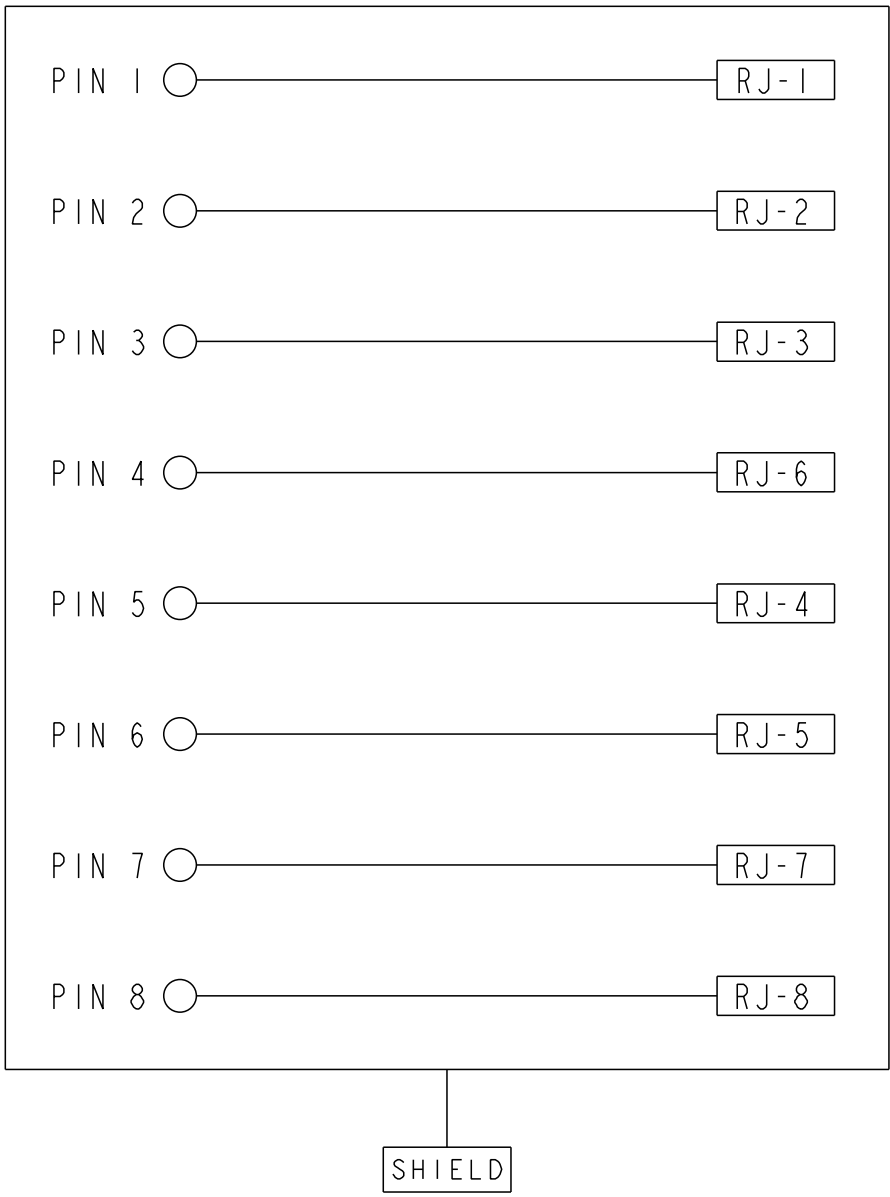


THROUGH CIRCUIT  
(PORT C)



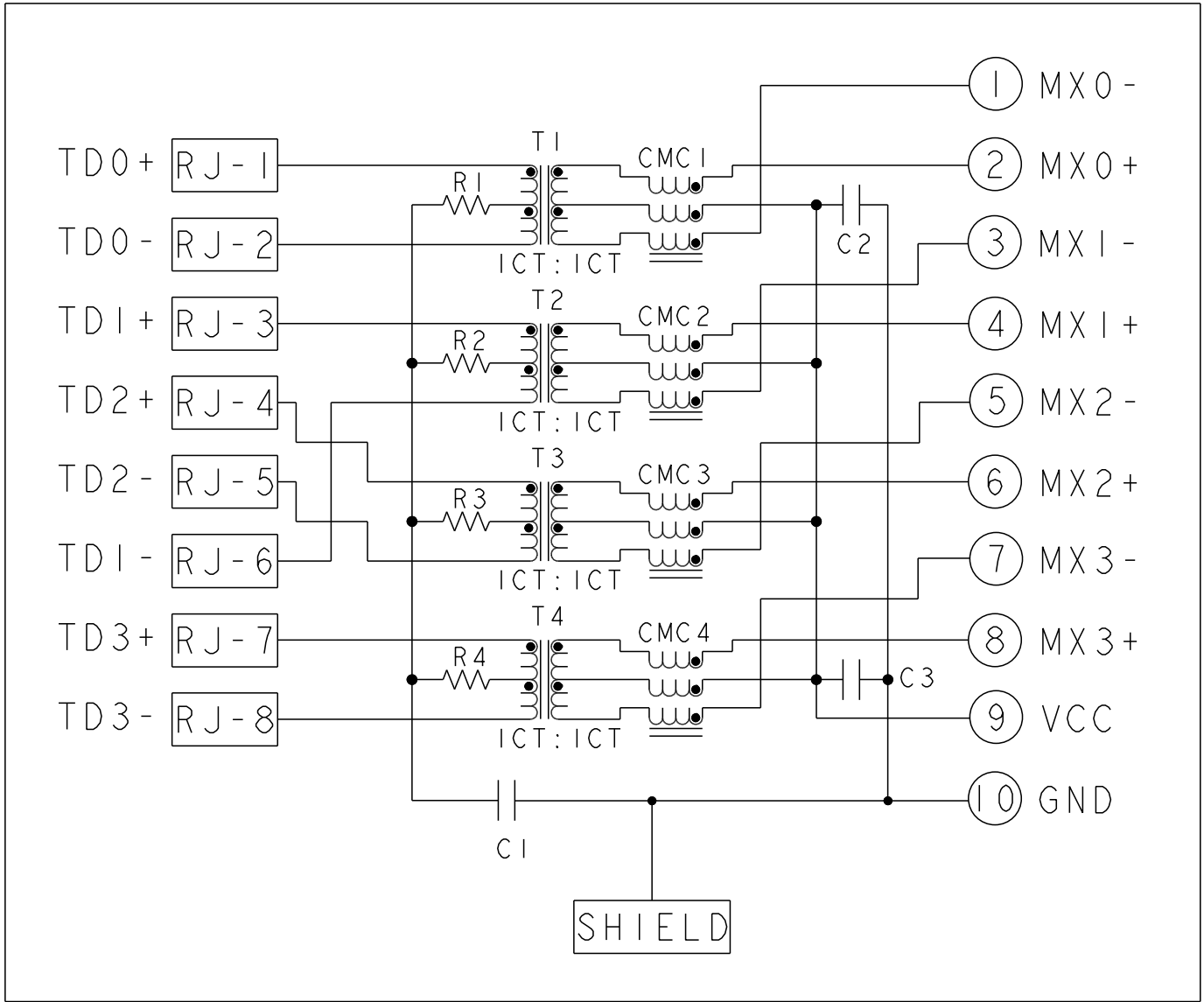
1. MATERIALS:  
PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0  
SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL,  
POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,  
CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL  
UNDERPLATE WITH SELECTED 1.27um MIN GOLD 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  
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.
4. TRP CONNECTOR LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN  
APPROXIMATE AREA SHOWN. DATE CODE: YYWW WHERE "YY" IS YEAR,  
"WW" IS WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1.

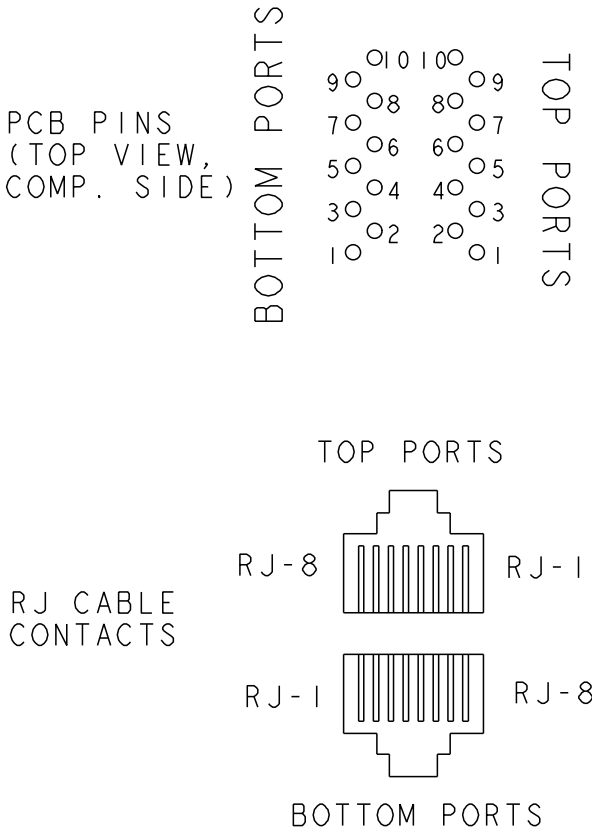
5. OPERATING TEMP: FROM 0°C TO +70°C.
6. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
7. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND  
SUPPORT AUTO-MDI/MDIX.
8. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
9. BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE  
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

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


S8G56 GIGABIT CIRCUIT 2 1  
(PORT A, B, D)



PIN DESIGNATIONS  
(REPEAT FOR EACH VERTICAL PAIR OF PORTS)



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

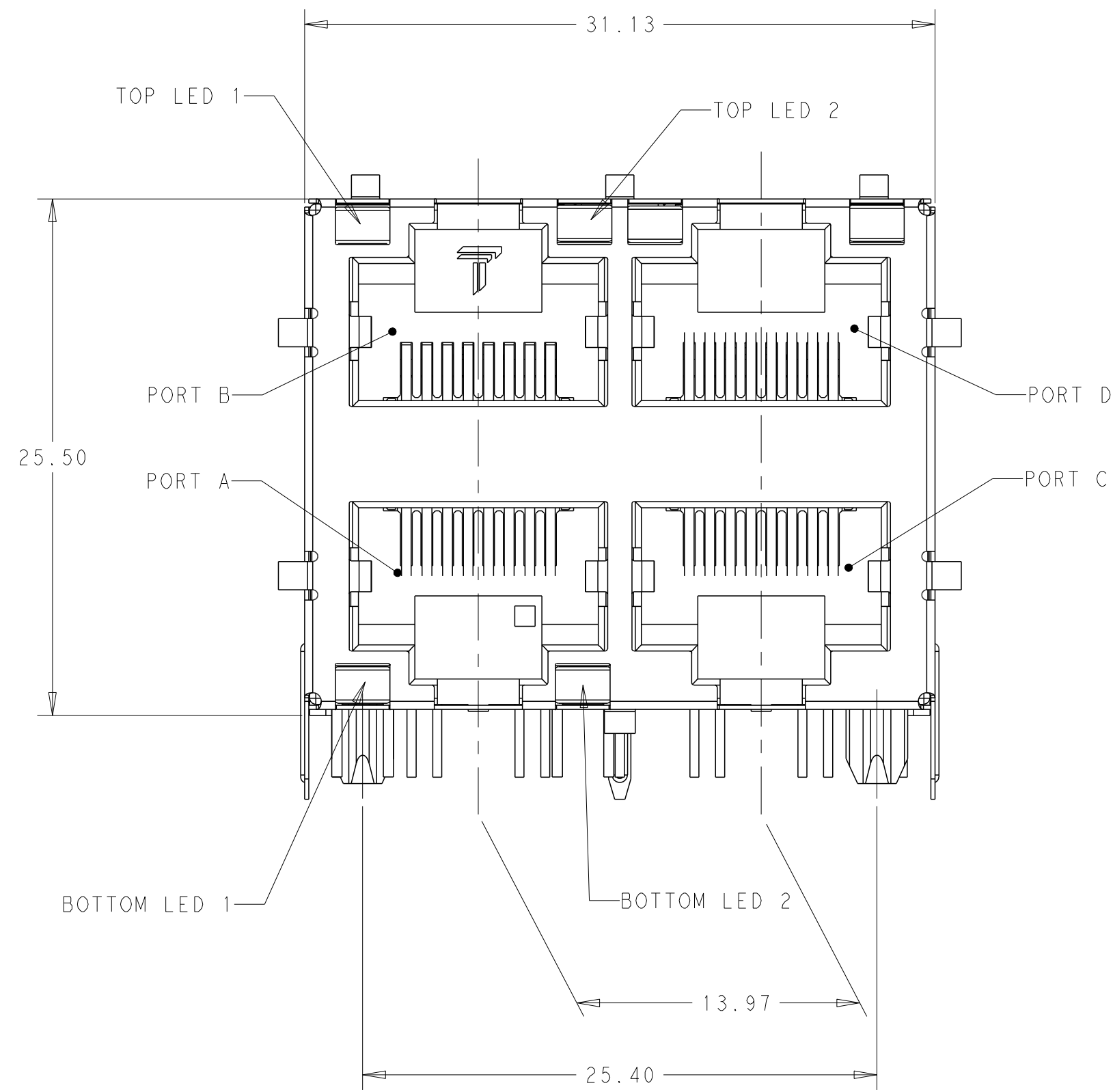
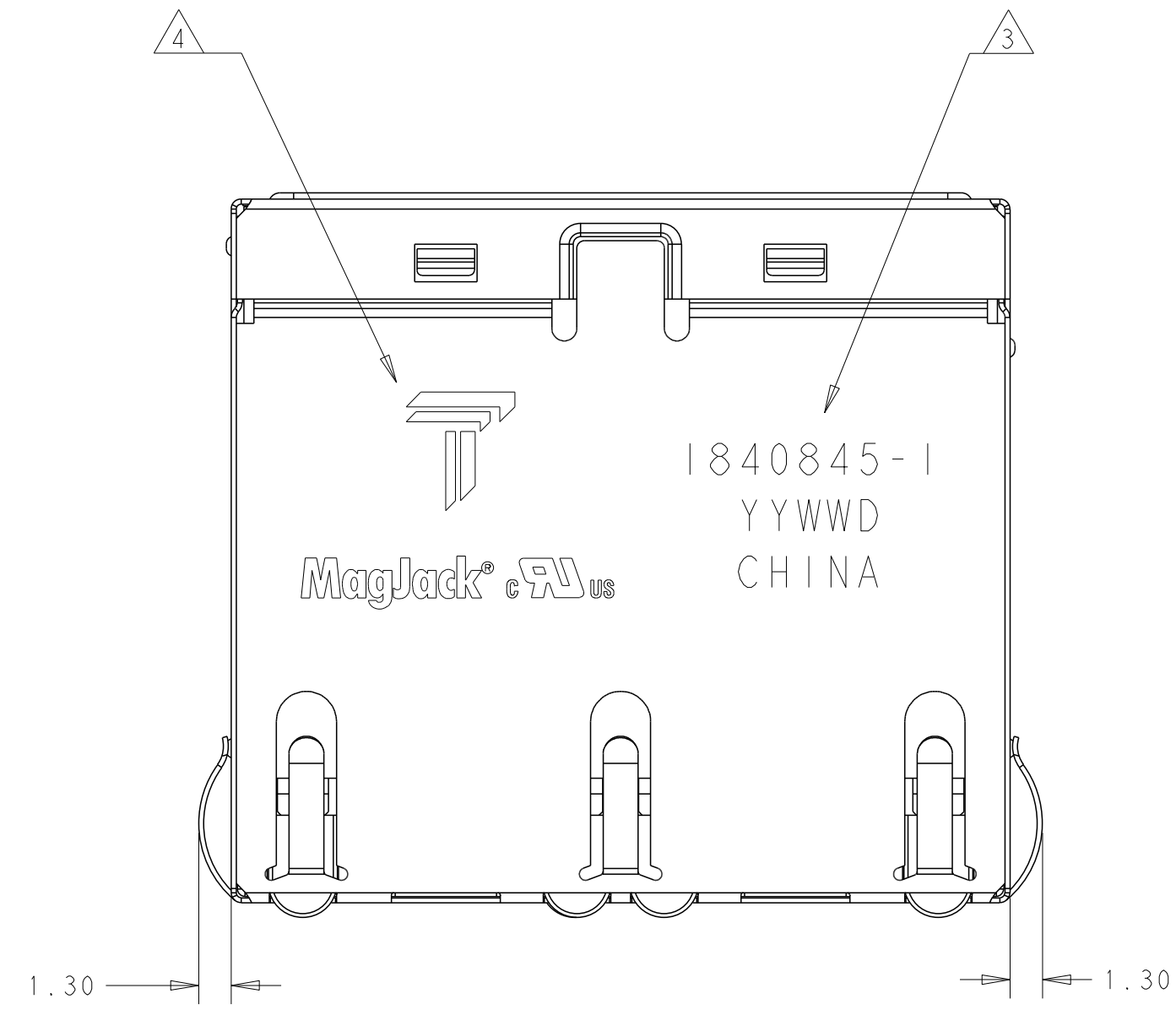
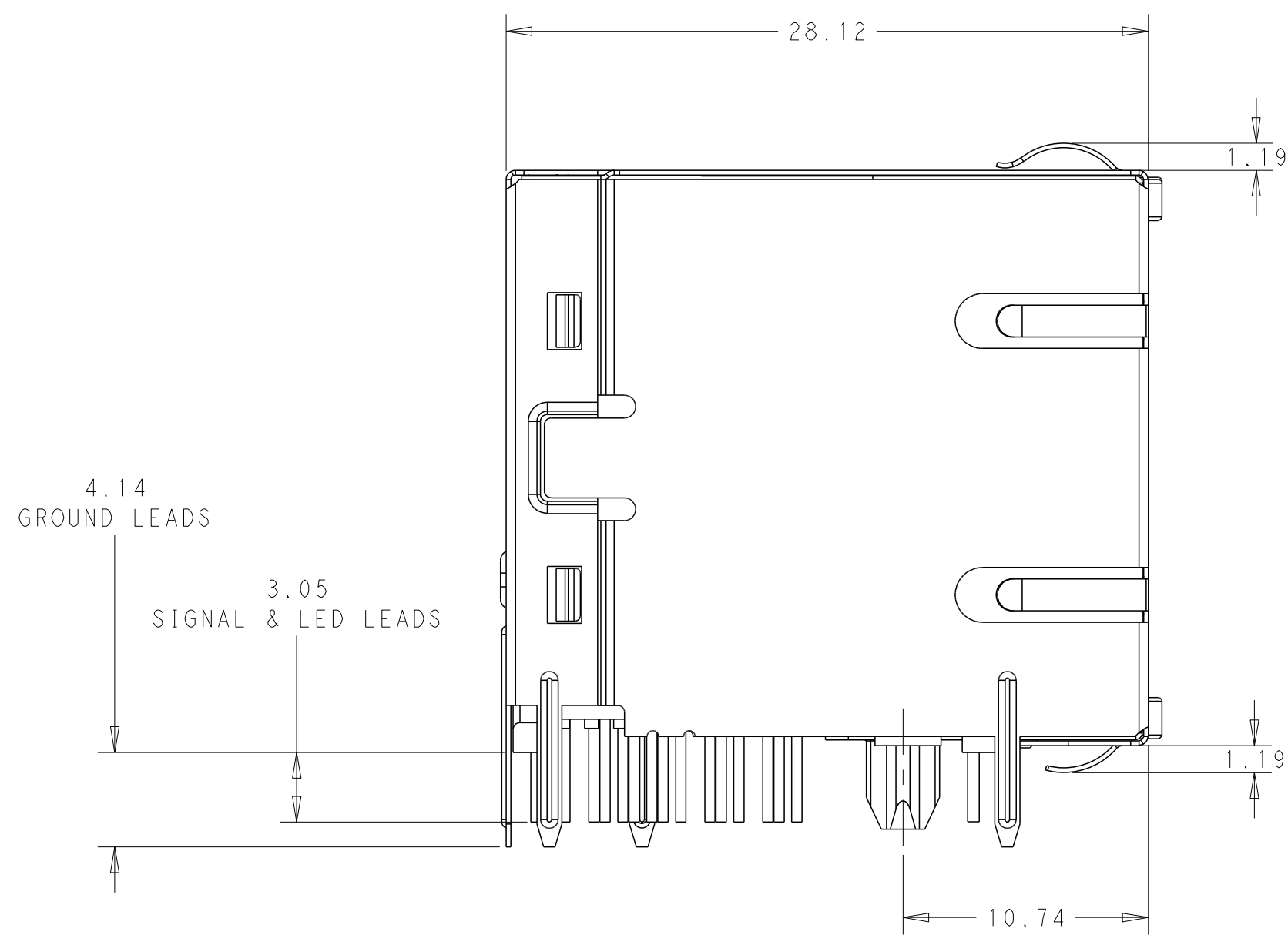
THIS DRAWING IS A CONTROLLED DOCUMENT.					DRN TOM HSU/KQ LL 14OCT2010	 <b>trp</b> CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm					CHK TONY YUAN 14OCT2010				
TOLERANCES UNLESS OTHERWISE SPECIFIED:					APVD KEITH ZHU 14OCT2010				
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES APPLICATION SPEC ±					MODEL NAME MAGJACK		DESC 2X2 S8G56 GIGABIT W/ LED		RESTRICTED TO -
PRODUCT SPEC 108-104004					STACK Non-PoE		SIZE A 1	CAGE CODE C=1840845	
CUSTOMER DRAWING					SCALE NTS		SHEET 1	OF 4	REV C


D

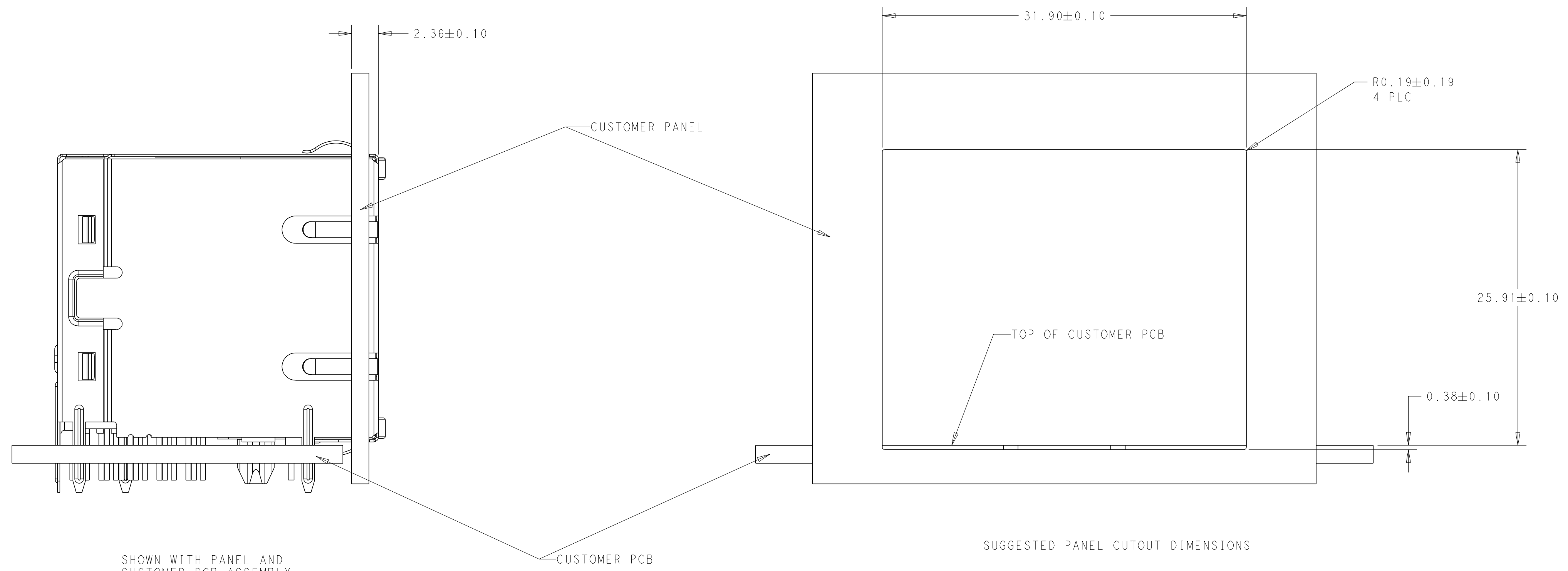
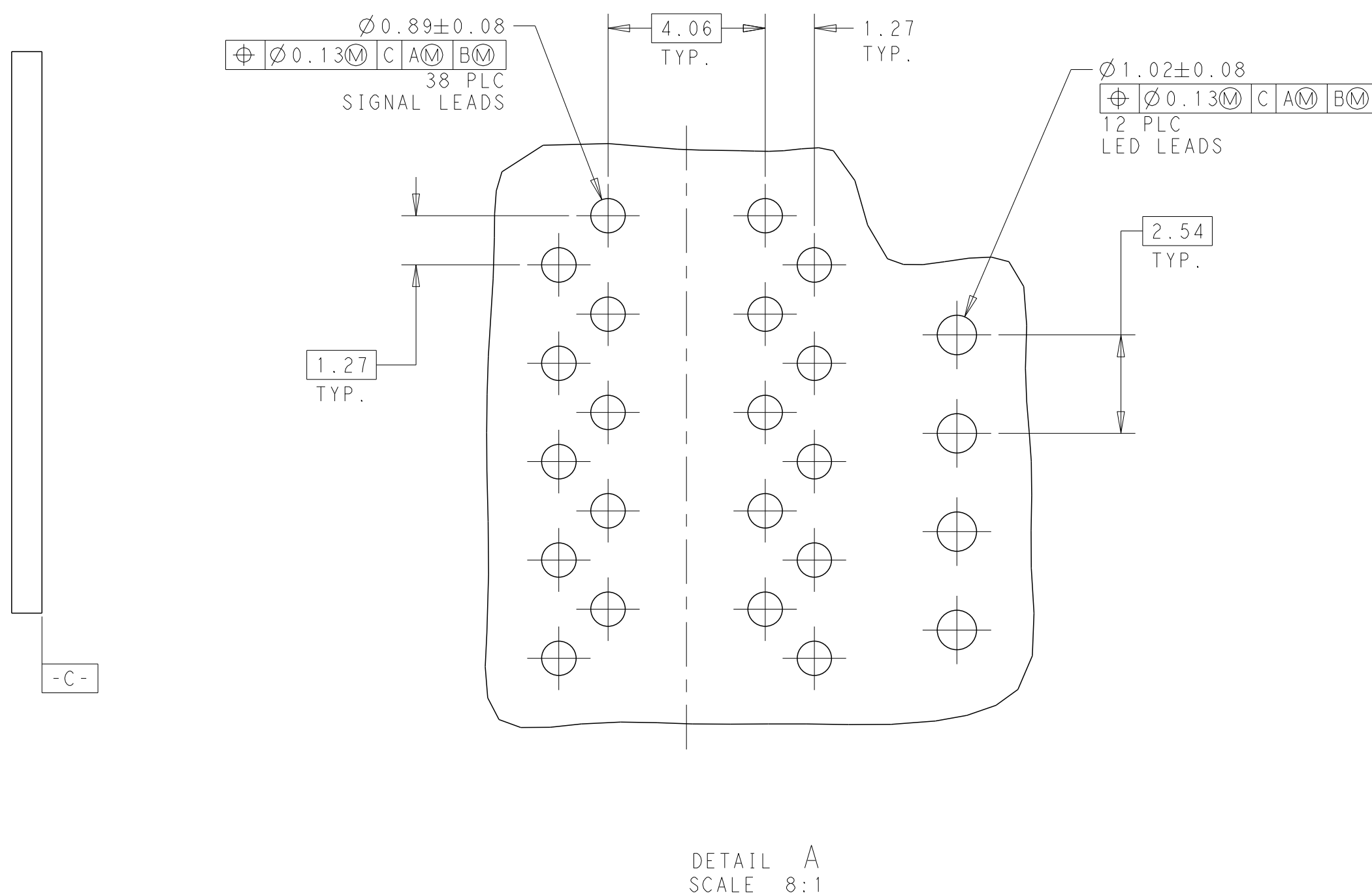
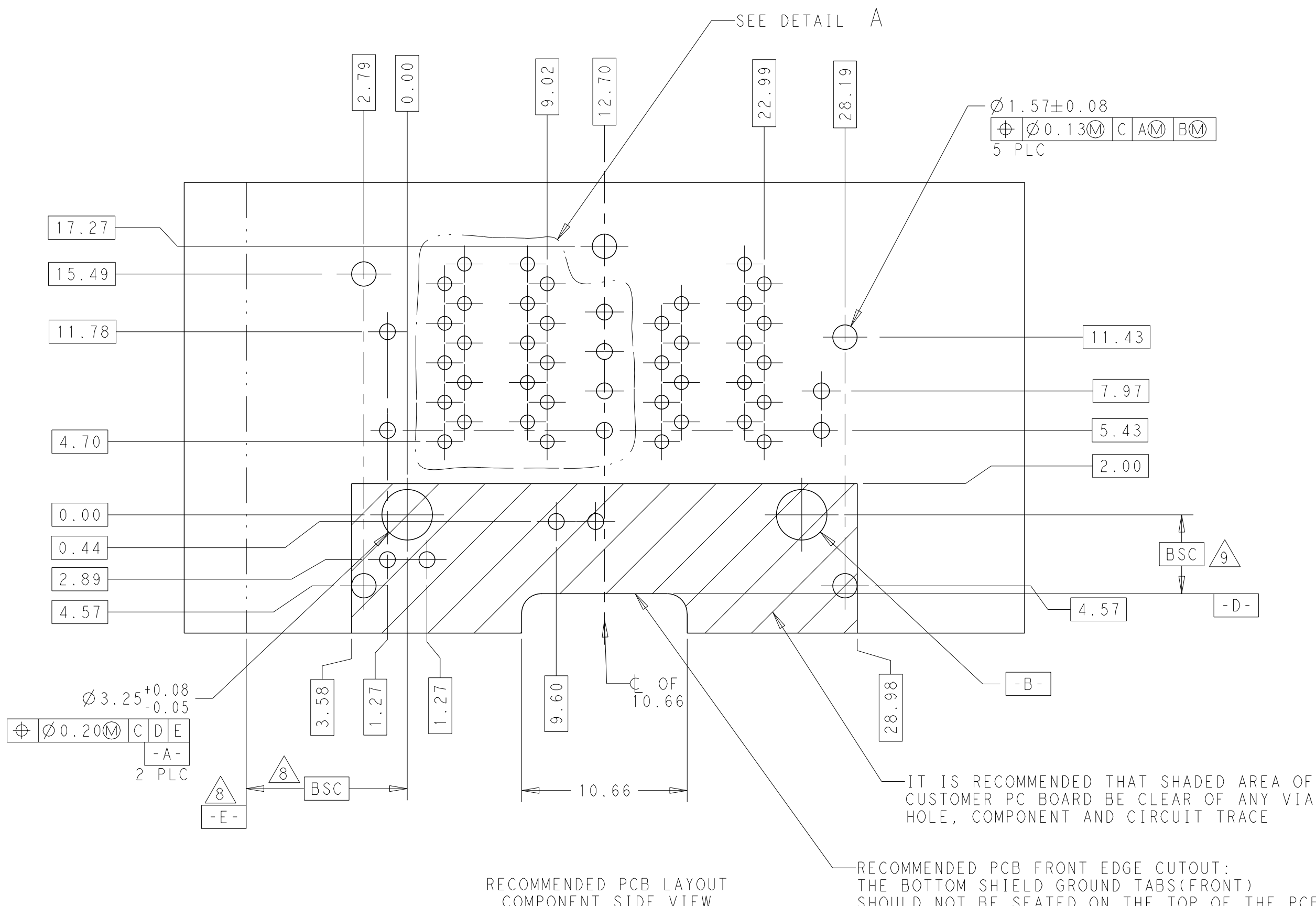
C

B

A

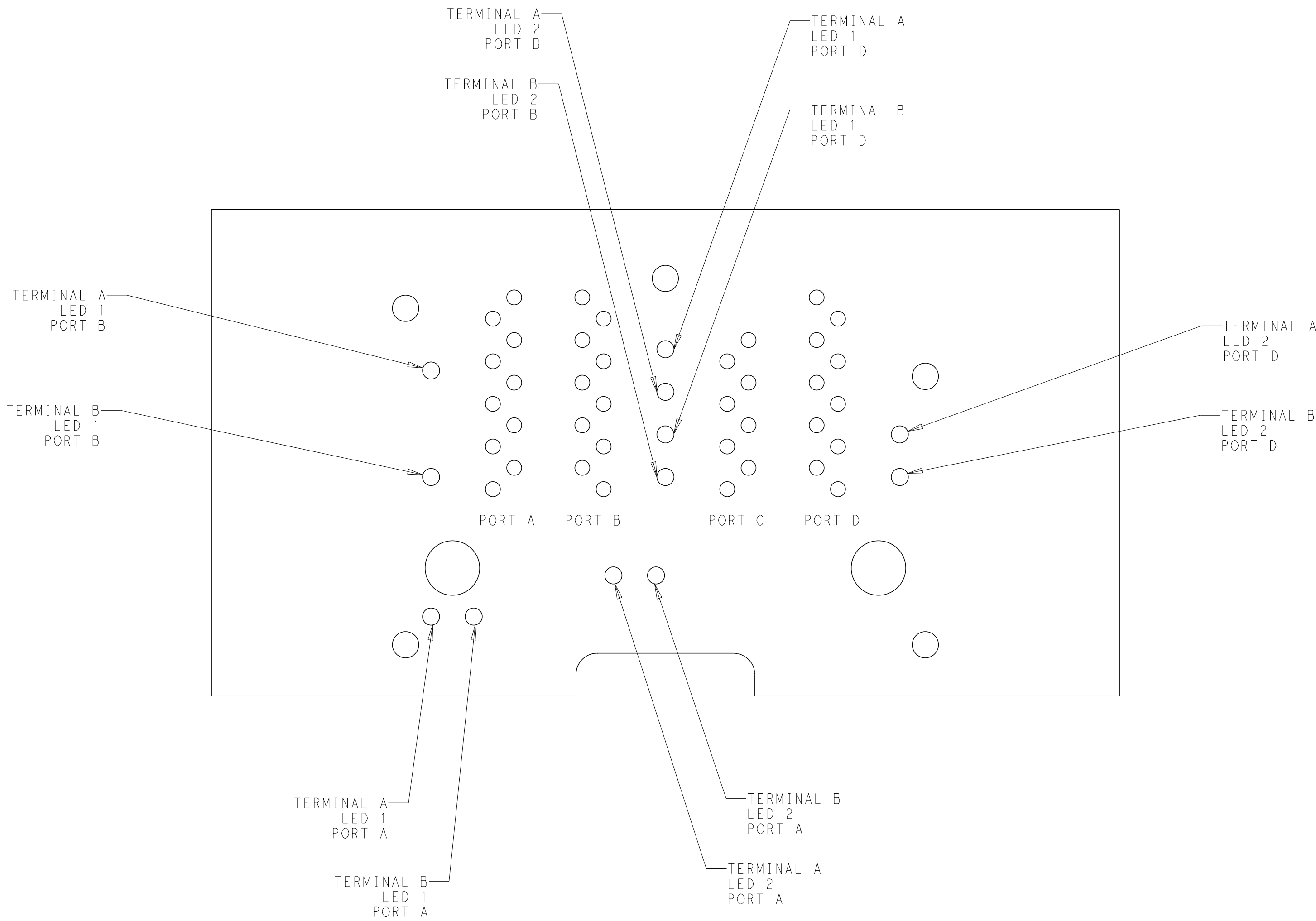


THIS DRAWING IS A CONTROLLED DOCUMENT.		DRW TOM HSU/KQ LL	140CT2010	 <b>trp</b> CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK TONY YUAN	140CT2010				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPD KEITH ZHU	140CT2010	MODEL NAME		DESC 2X2 S8G56 GIGABIT W/ LED	
PRODUCT SPEC 108-104004		MAGJACK STACK Non-PoE		SIZE A 1	CAGE CODE	DRAWING NO C=1840845	RESTRICTED TO -
APPLICATION SPEC		CUSTOMER DRAWING		SCALE NTS	SHEET 2	OF 4	REV C



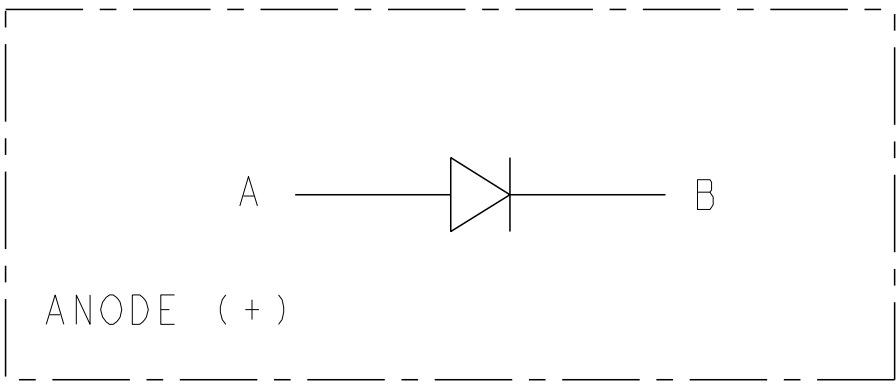
SUGGESTED PANEL CUTOUT DIMENSIONS


THIS DRAWING IS A CONTROLLED DOCUMENT.		DRW TOM HSU/KQ LL 14OCT2010	 a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK TONY YUAN 14OCT2010				
		APVD KEITH ZHU 14OCT2010	MODEL NAME MAGJACK STACK Non-PoE		DESC 2X2 S8G56 GIGABIT W/ LED	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		SIZE A 1		CAGE CODE C=1840845		RESTRICTED TO -
PRODUCT SPEC 108-104004		APPLICATION SPEC -		CUSTOMER DRAWING		SCALE NTS
				SHEET 3 OF 4		REV C



LED HOLE DESIGNATIONS  
COMPONENT SIDE VIEW  
SCALE 5:1

SINGLE COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DRW TOM HSU/KQ LL	14OCT2010	 <b>trp</b> CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK TONY YUAN	14OCT2010				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD KEITH ZHU	14OCT2010	MODEL NAME		DESC	
0 PLC ±0.25		MAGJACK		2X2 S8G56 GIGABIT W/ LED		RESTRICTED TO	
1 PLC ±0.25		STACK Non-PoE		SIZE		CAGE CODE	
2 PLC ±0.25		CUSTOMER DRAWING		DRAWING NO		REV	
3 PLC ±		SCALE		NTS		SHEET	
4 PLC ±		4		OF		4	
ANGLES		REV		C			
APPLICATION SPEC							
108-104004							