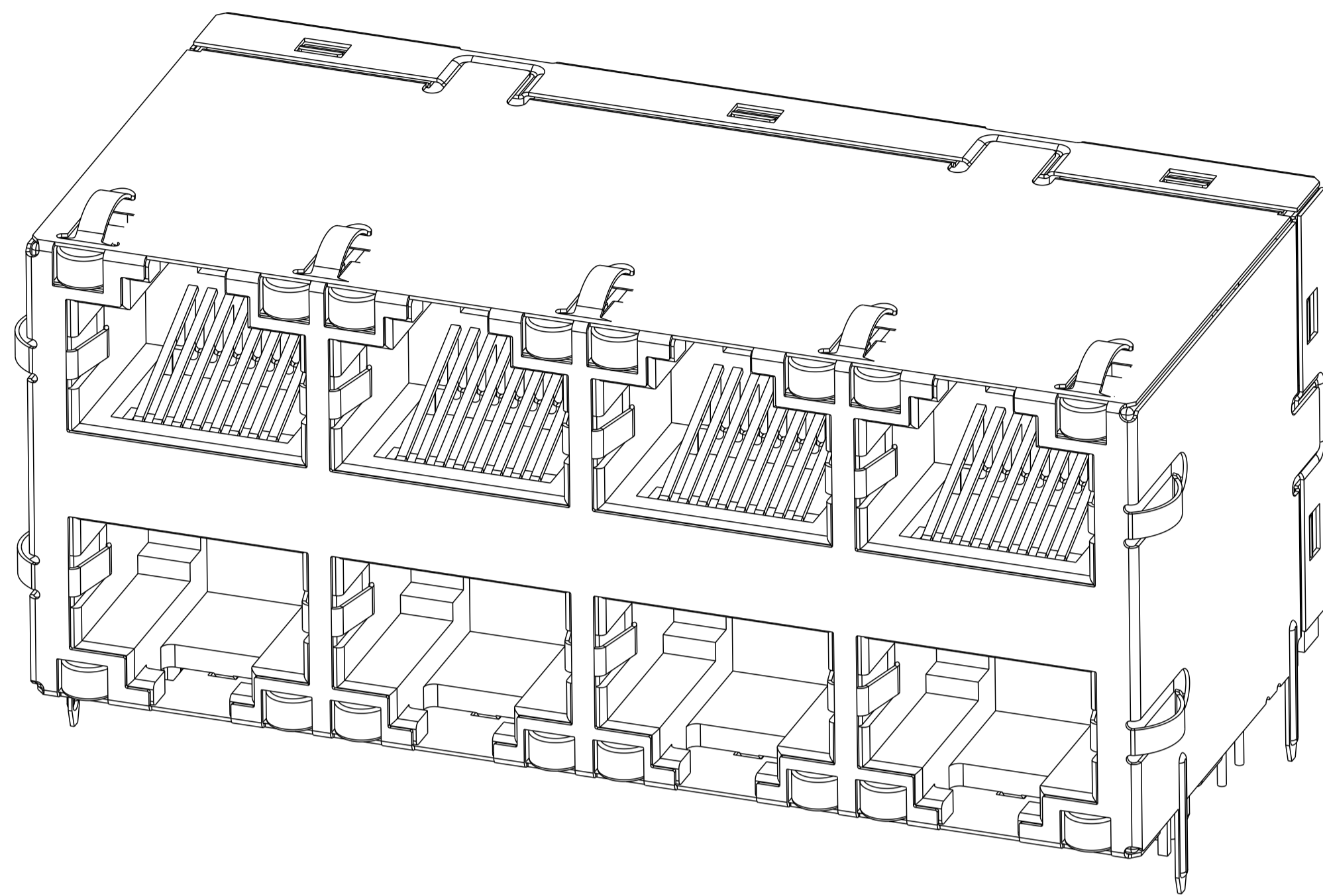


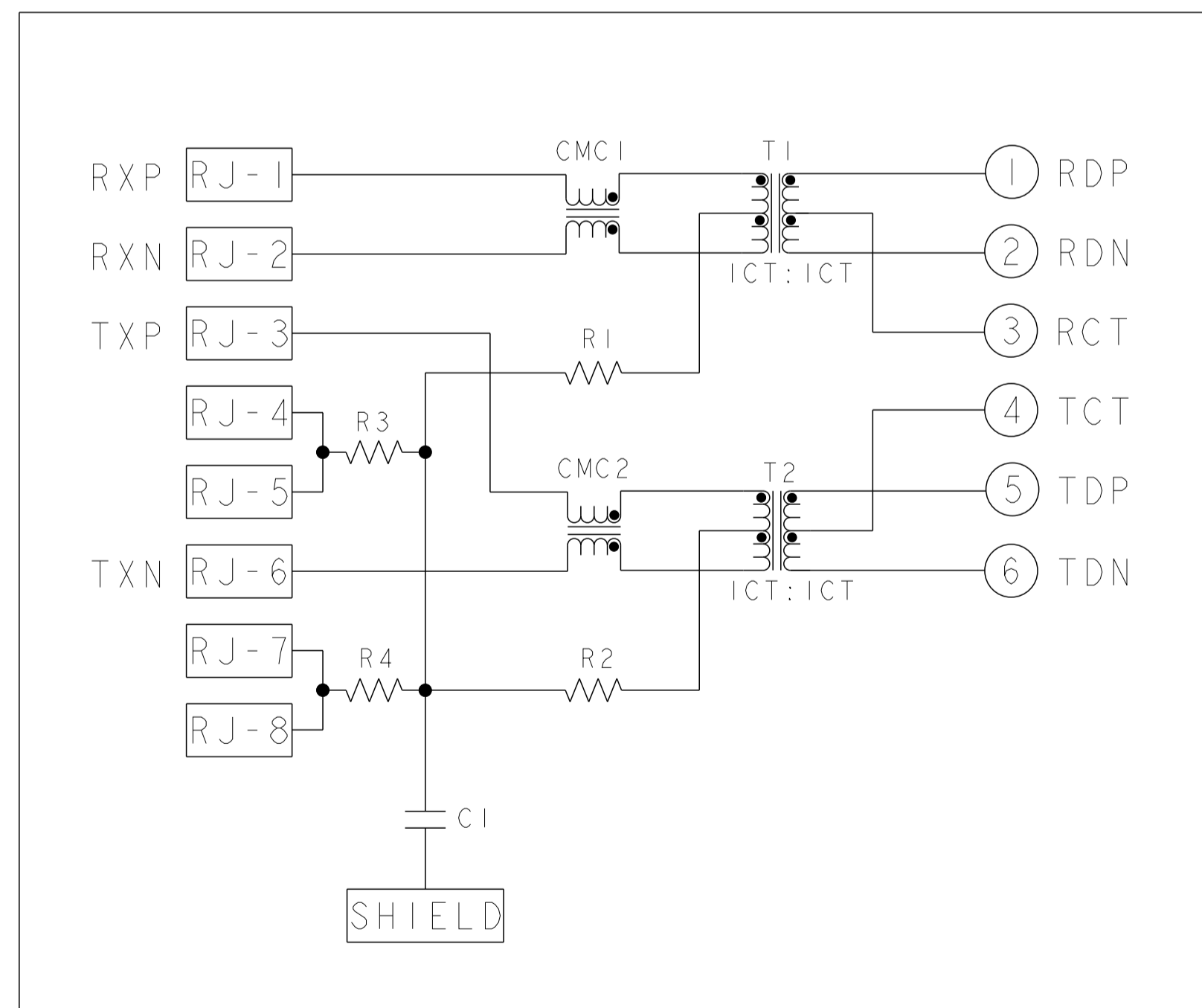
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
 5736910 5939955 6425781 6428361 6554638 6840817 7123117
 7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS					
P	LTN	DESCRIPTION	DATE	DMN	APVD
D		EC-1411035 COMPANY LOGO CHANGE	30JAN2015	CZ	TY



S866P9 10/100 BASE-T CIRCUIT 
 TOP AND BOTTOM PORTS



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

- 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 OR PURE TIN SOLDER ON SOLDER TAILS,
 CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE,
 WITH SELECT 1.27um MIN GOLD OR WITH 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

- 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 CONNECTOR 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.

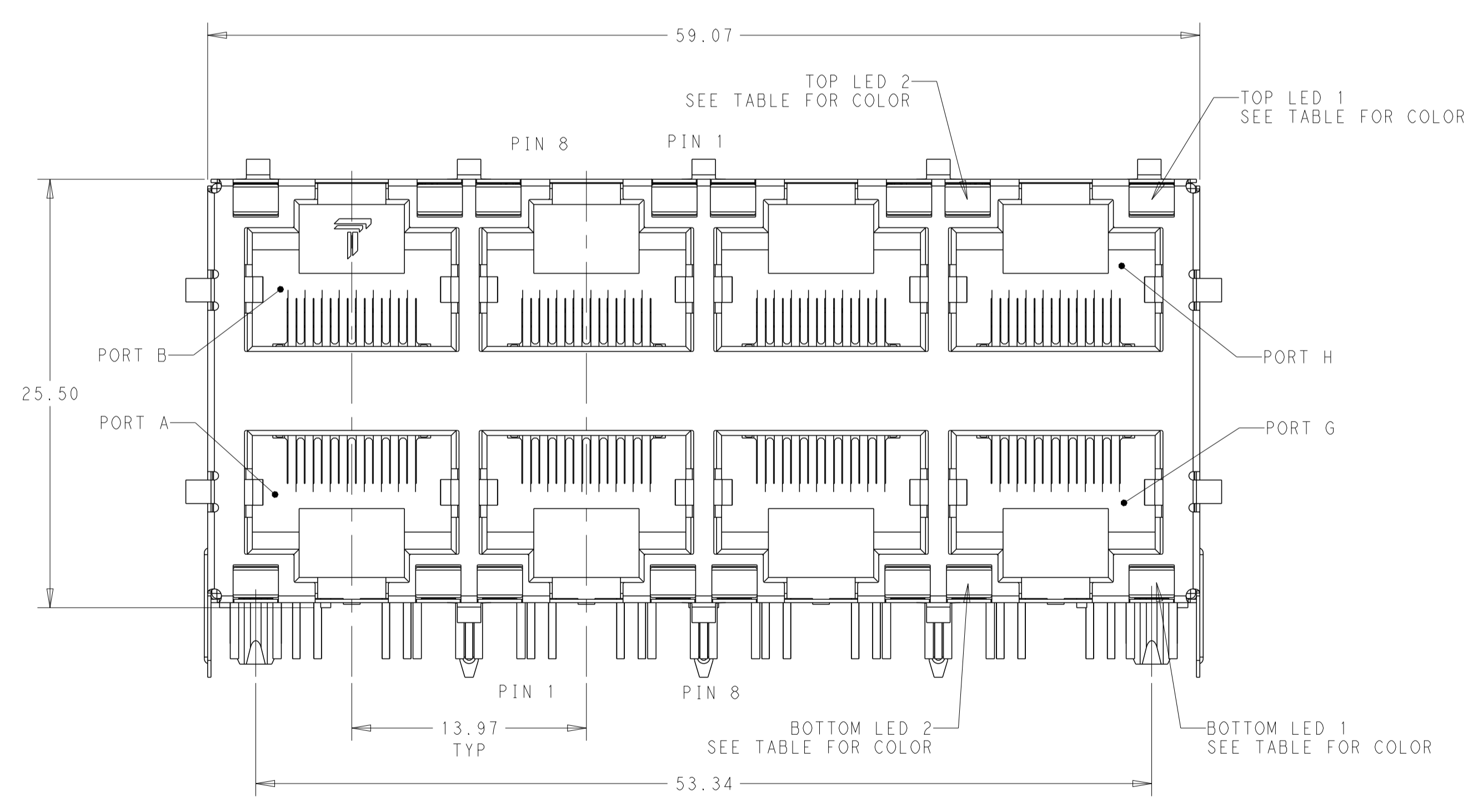
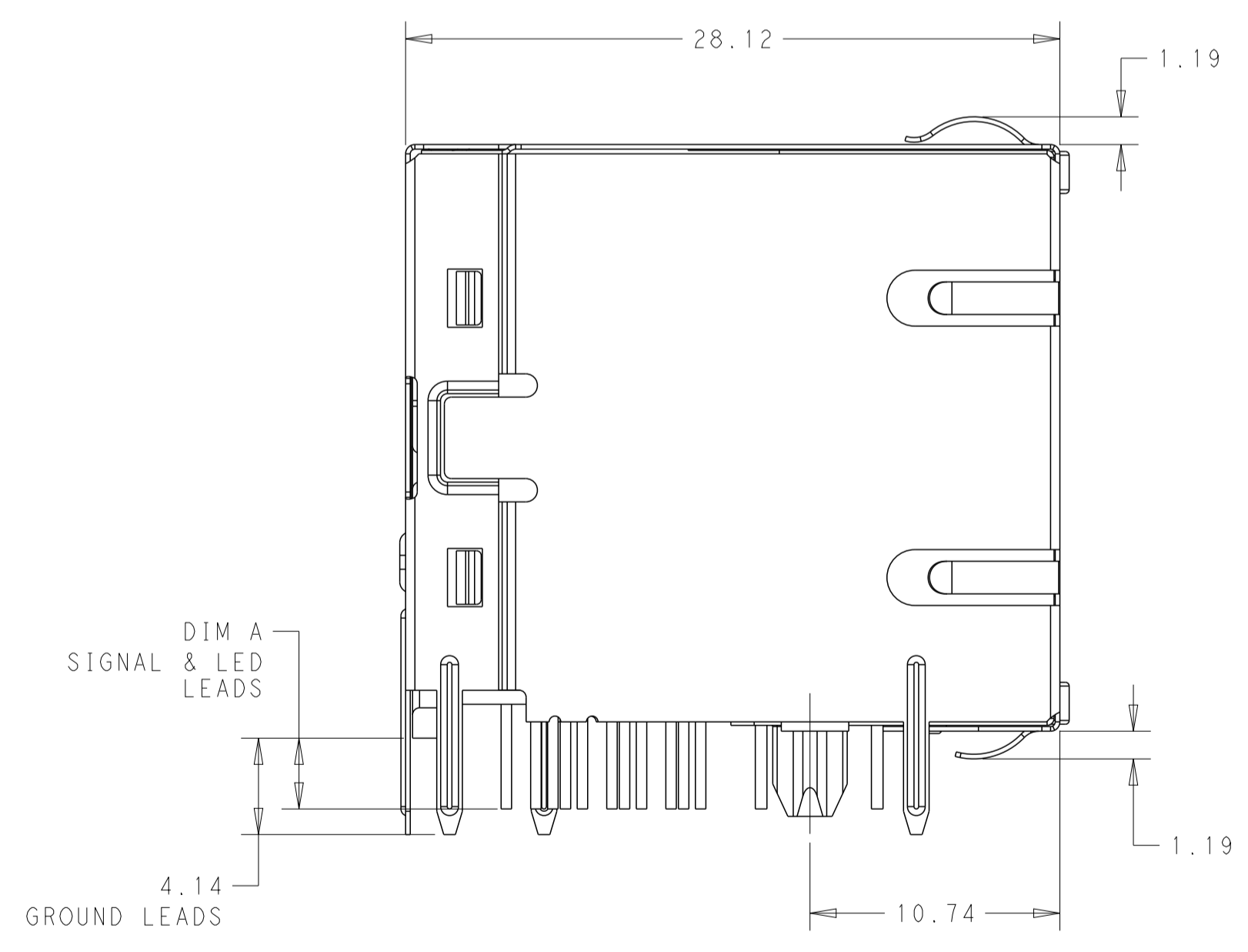
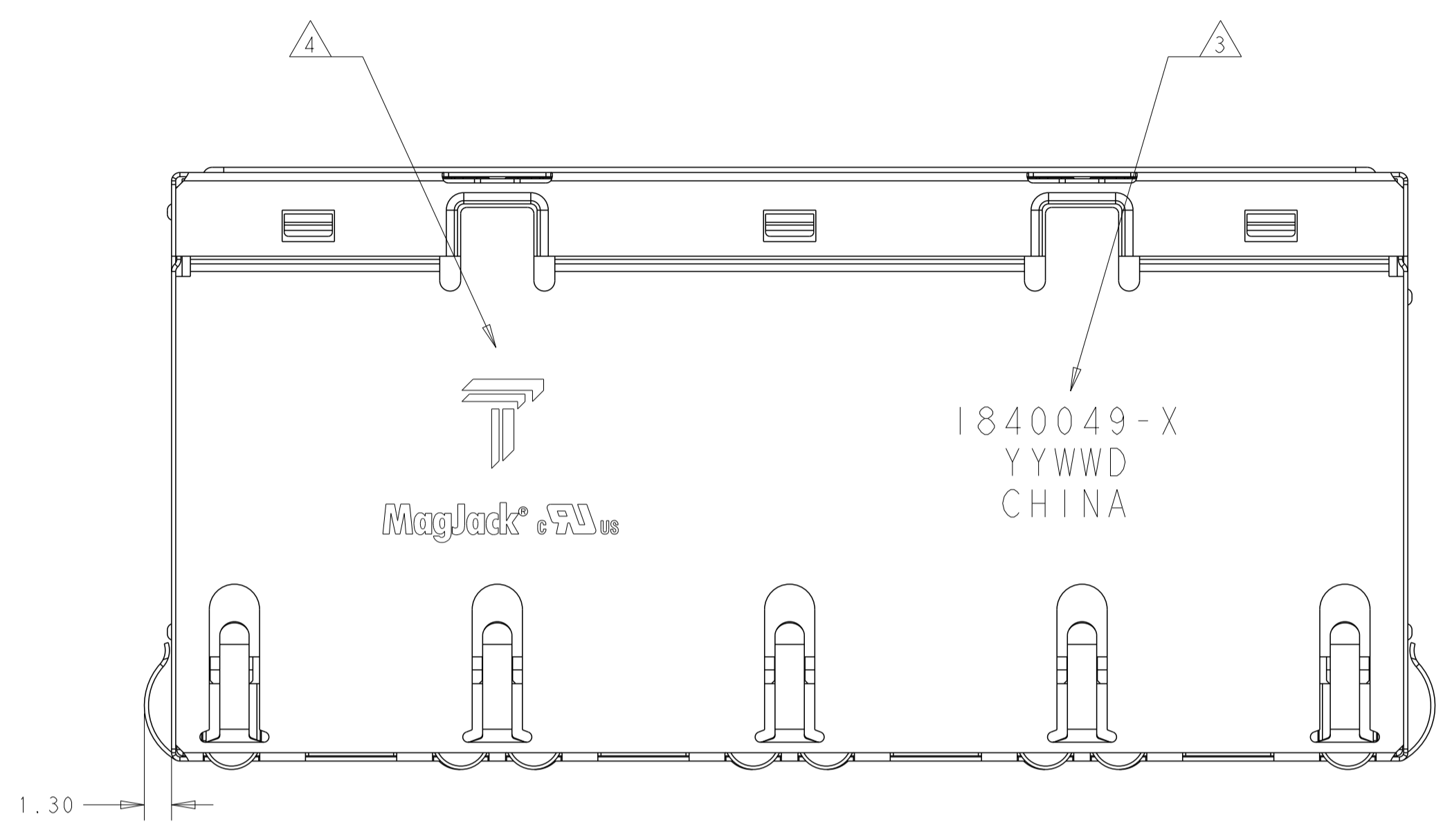
- BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE GREATER THAN 5.08mm.


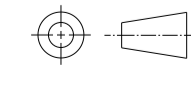
- LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA

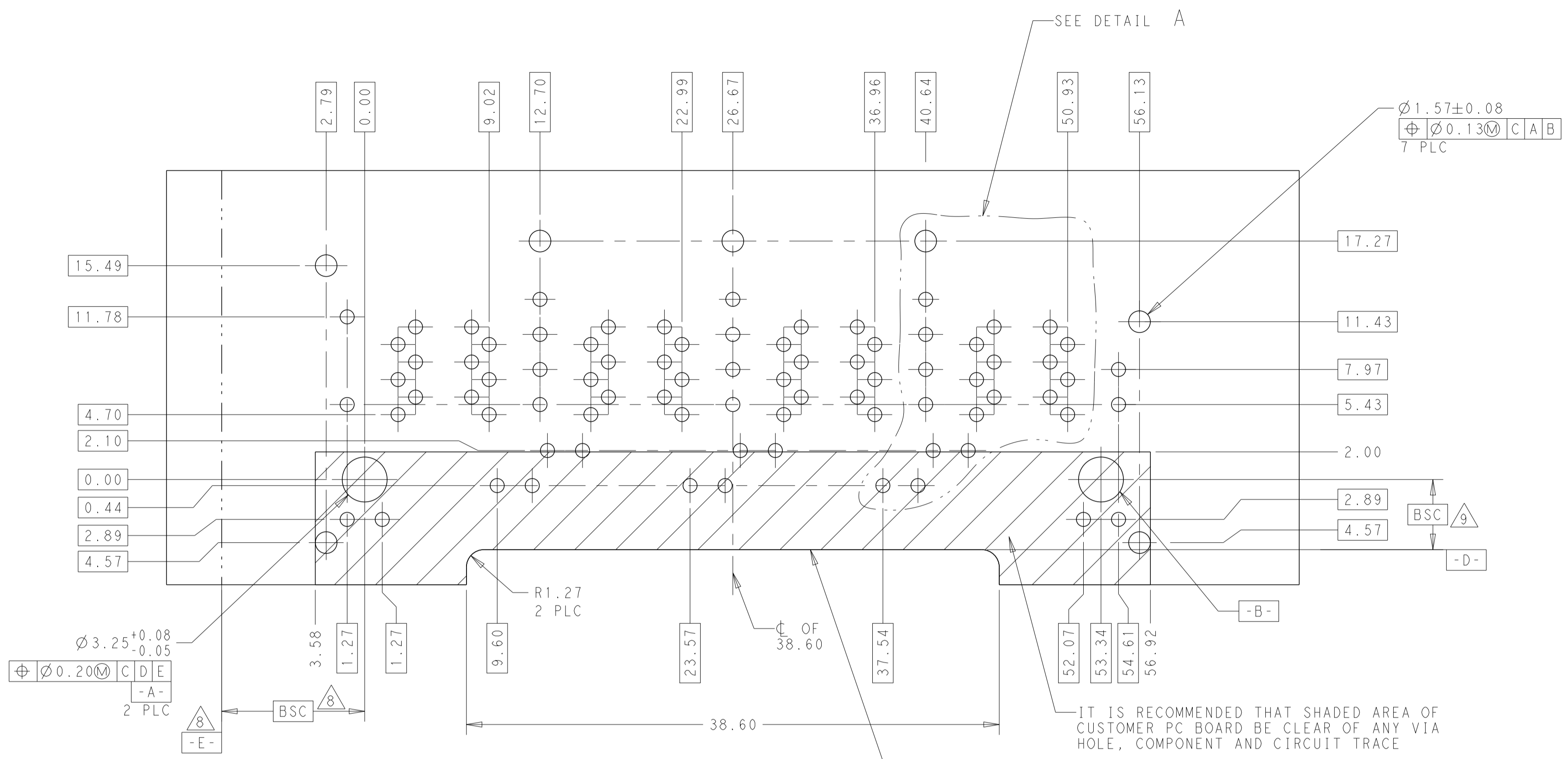
- THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

3.04	GRN/YEL	GREEN	GRN/YEL	GREEN	1840049-5
3.04	GREEN	YELLOW	GREEN	YELLOW	1840049-3
DIM A	BOTTOM LED 2	BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER

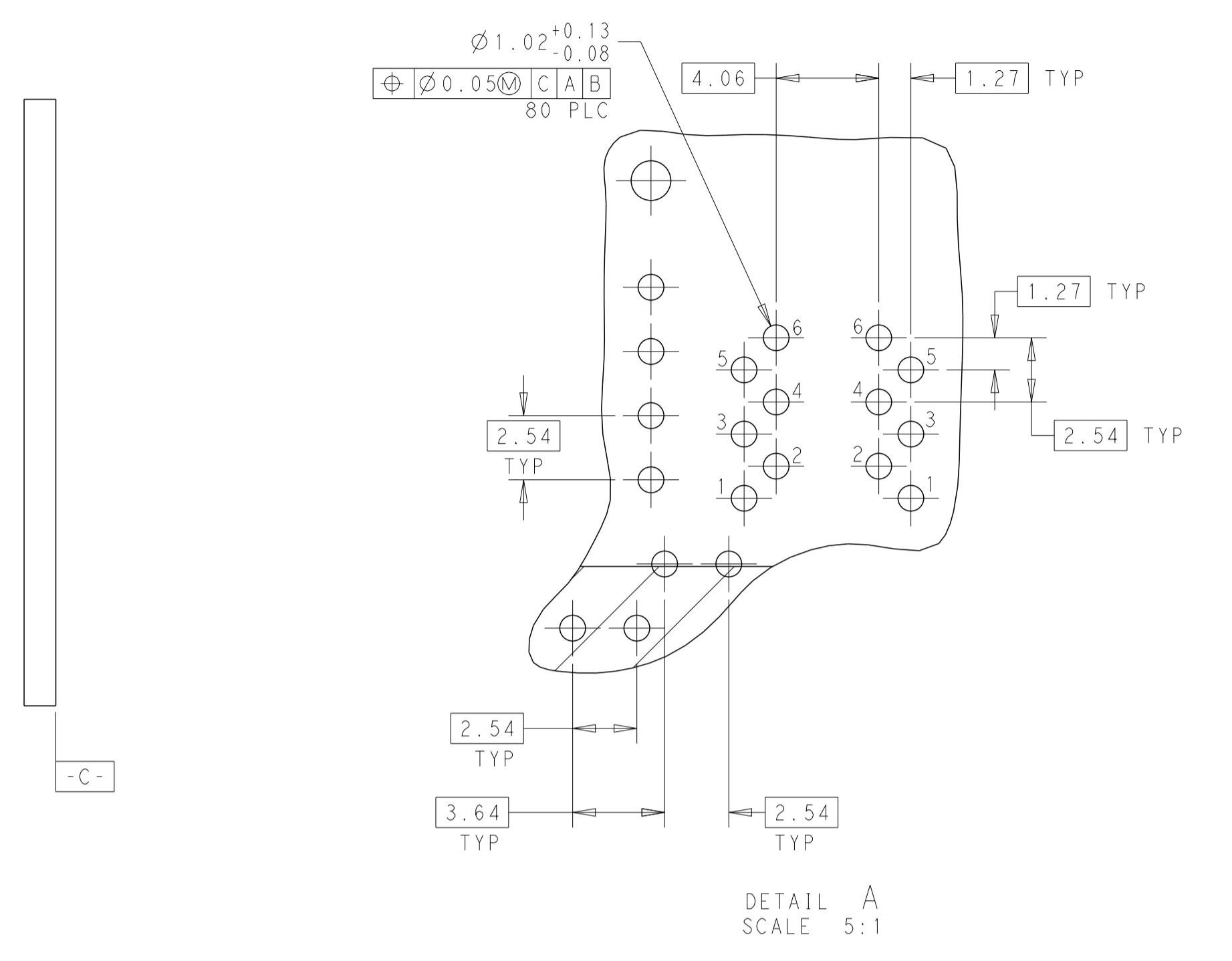
THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN RICK LI / LIGHT CHEN 03JUL2012	 DONGGUAN CHINA
DIMENSIONS: mm		CHK TOMMY REN 03JUL2012	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD HEITH ZHU 03JUL2012	DESC 2X4 S866P9 10/100 W/ LED
0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC ±		MODEL NAME MAGJACK	SIZE A1
PRODUCT SPEC 108-104004		STACK NON-POE	RESTRICTED TO C=1840049
		CUSTOMER DRAWING	SCALE NTS SHEET 1 OF 4 REV D



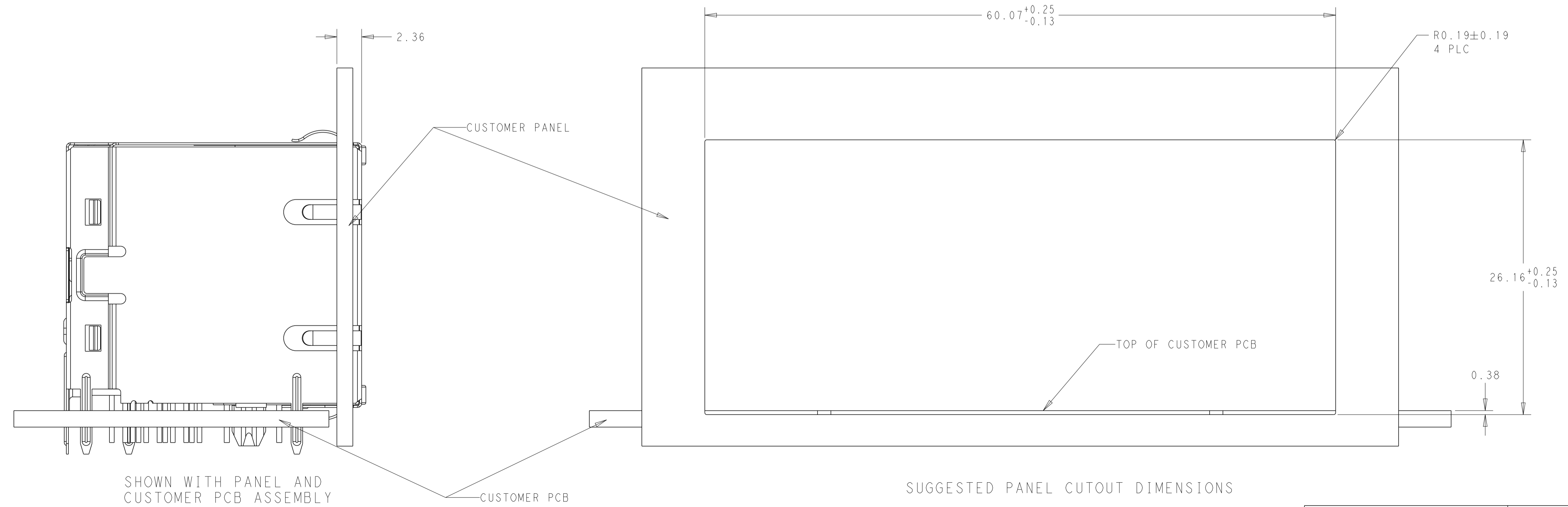
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN RICK LI / LIGHT CHEN 03 JUL 2012	 trp CONNECTOR a bel group	DONGGUAN CHINA
DIMENSIONS: mm		CHK TOMMY REN 03 JUL 2012		DESC MAGJACK STACK NON-POE
		APVD HELIH ZHU 03 JUL 2012	MODEL NAME MAGJACK	SIZE A1
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC ±		PRODUCT SPEC 108-104004	DESC 2X4 S866P9 10/100 W/ LED	SCALE NTS
			SIZE C=1840049	SHEET 2 OF 4
			CUSTOMER DRAWING	REV D



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



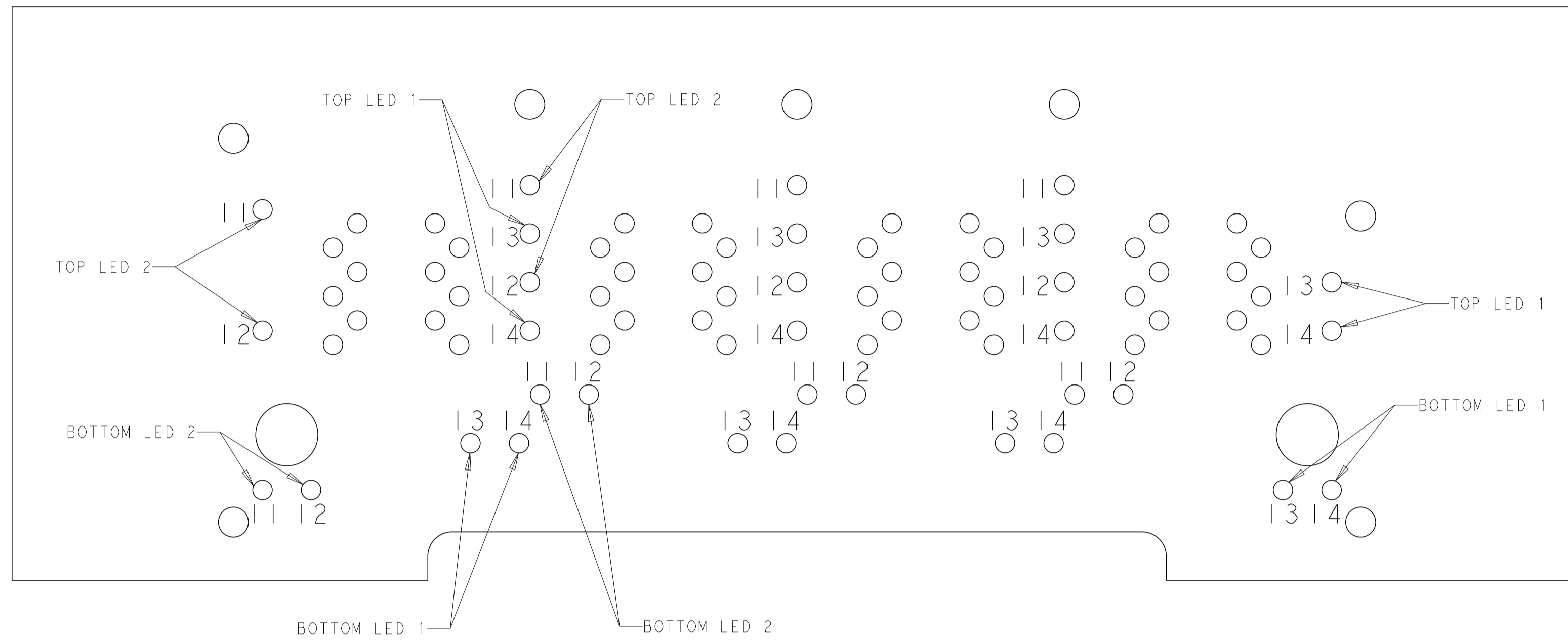
DETAIL A
 SCALE 5:1



SHOWN WITH PANEL AND CUSTOMER PCB ASSEMBLY

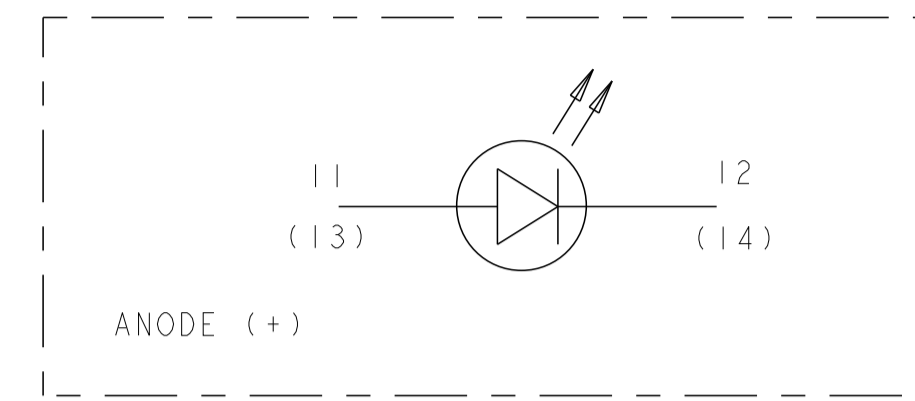
SUGGESTED PANEL CUTOUT DIMENSIONS

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: RICK LI / LIGHT CHEN 03JUL2012	 DONGGUAN CHINA
DIMENSIONS: mm		CHK: TOMMY REN 03JUL2012	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: KEITH ZHU 03JUL2012	DESC: 2X4 S866P9 10/100 W/ LED
0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC ±		MODEL NAME: MAGJACK	SIZE: A1
PRODUCT SPEC: 108-104004		RESTRICTED TO: C=1840049	SCALE: NTS
		CUSTOMER DRAWING	SHEET 3 OF 4 REV D

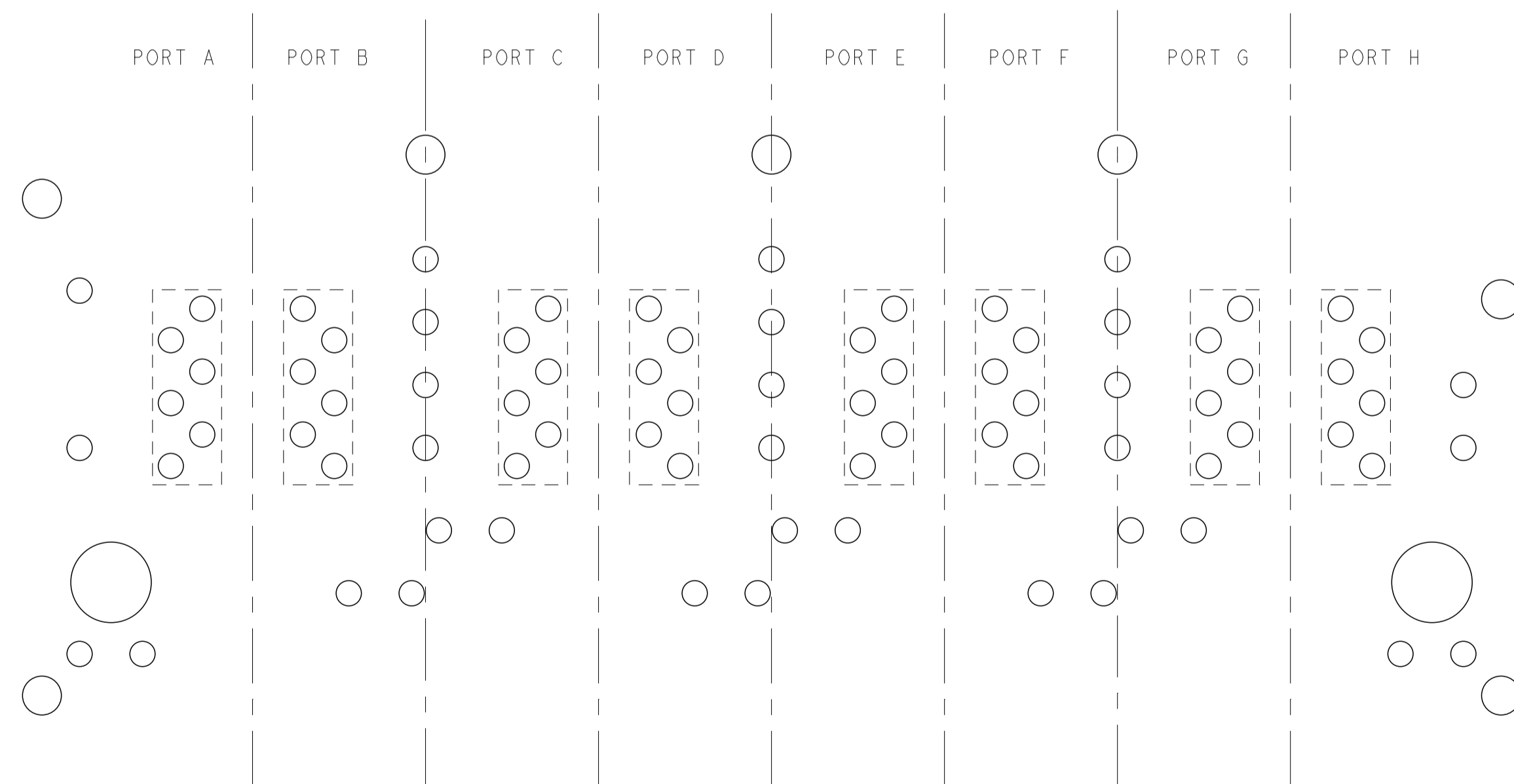
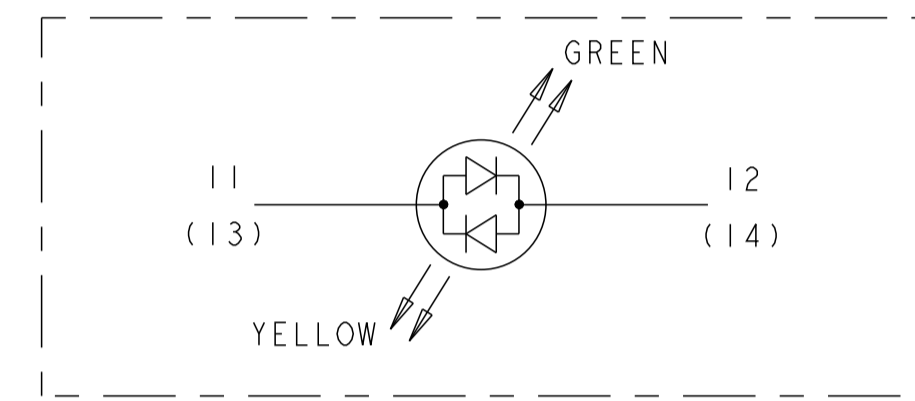


LED HOLE DESIGNATIONS
COMPONENT SIDE VIEW


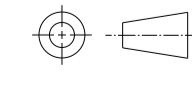
SINGLE COLOR LED



BI-COLOR LED



PORT ASSIGNMENT
COMPONENT SIDE VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN RICK LI / LIGHT CHEN 03 JUL 2012	 DONGGUAN CHINA
DIMENSIONS: mm		CHK TOMMY REN 03 JUL 2012	
		APVD KEITH ZHU 03 JUL 2012	MODEL NAME MAGJACK
PRODUCT SPEC 108-104004		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC ±	DESC 2X4 S866P9 10/100 W/ LED
			SIZE A1
			CAGE CODE 1840049
			RESTRICTED TO CUSTOMER DRAWING
			SCALE NTS
			SHEET 4
			OF 4
			REV D