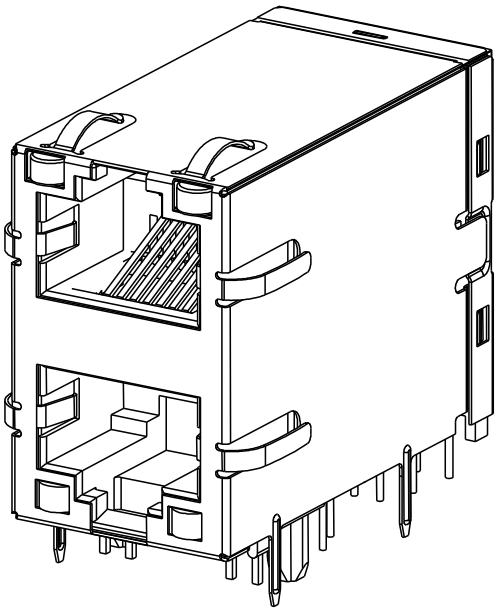


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

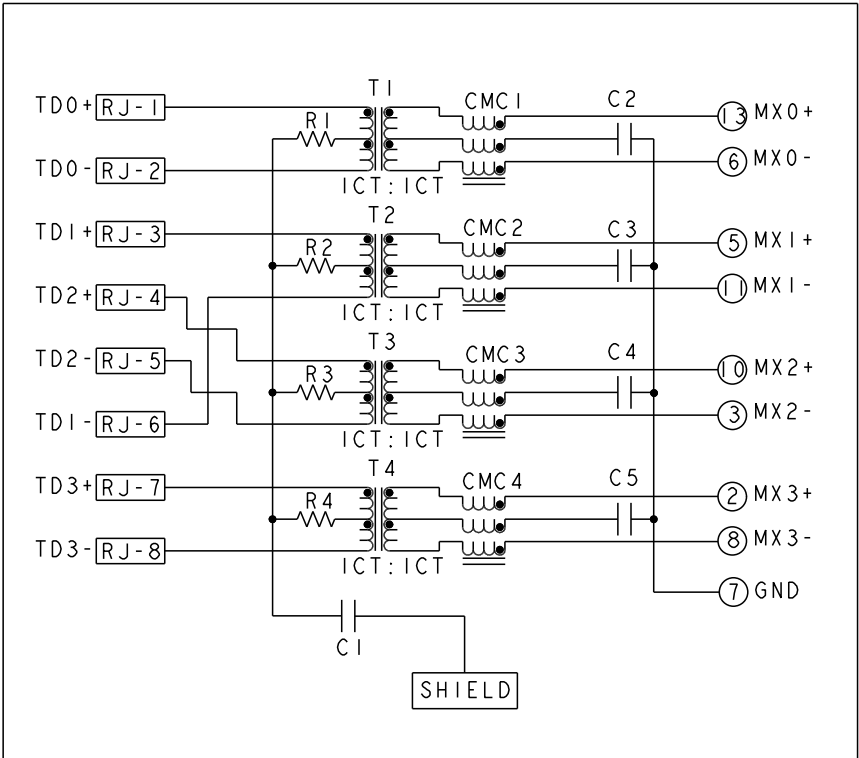
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISONS					
#	LYR	DESCRIPTION	DATE	DWN	APVD
C		EC-1411035 COMPANY LOGO CHANGE	06FEB2015	CZ	TY




S8G94ET GIGABIT CIRCUIT

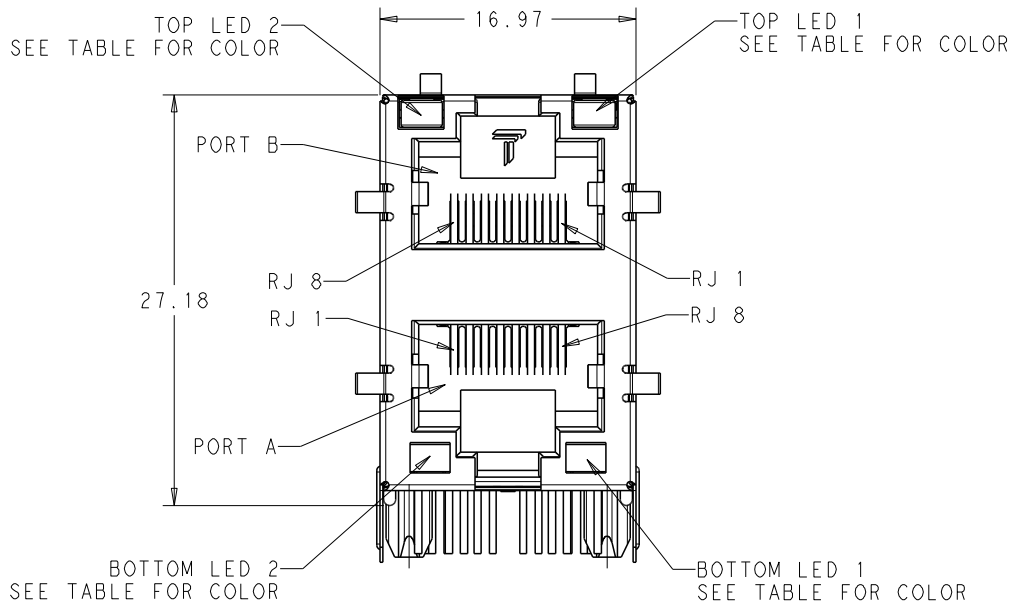
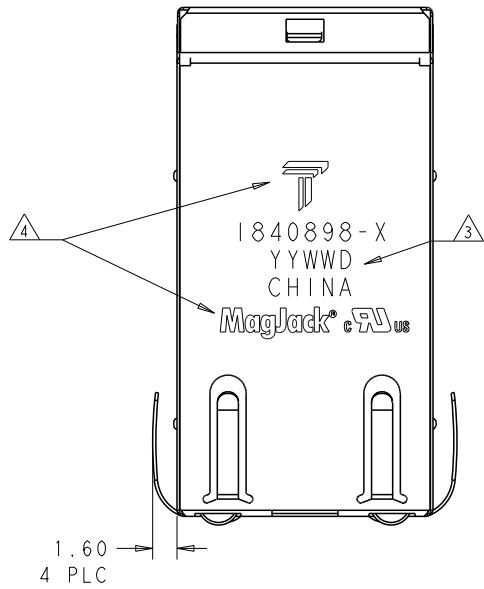
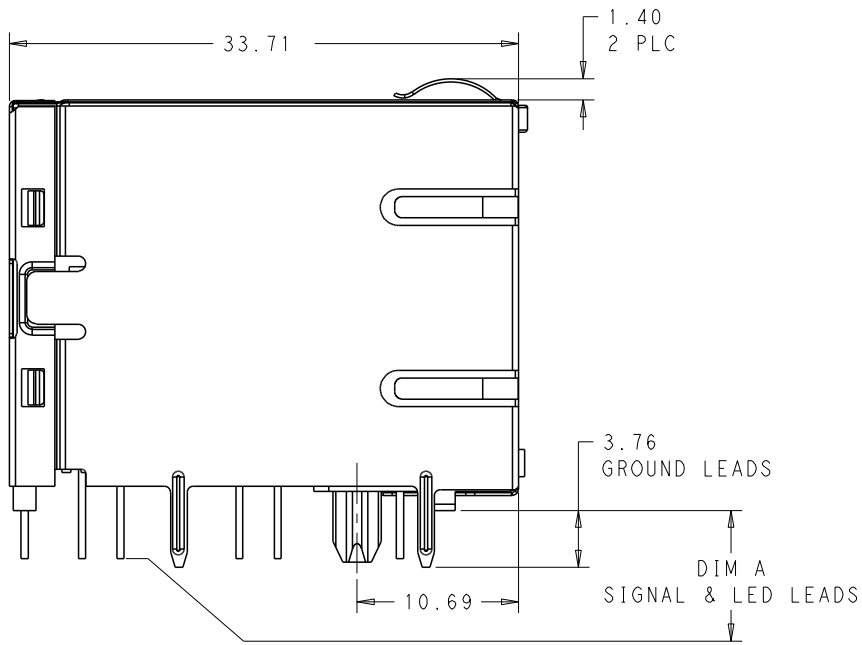
TOP AND BOTTOM PORTS





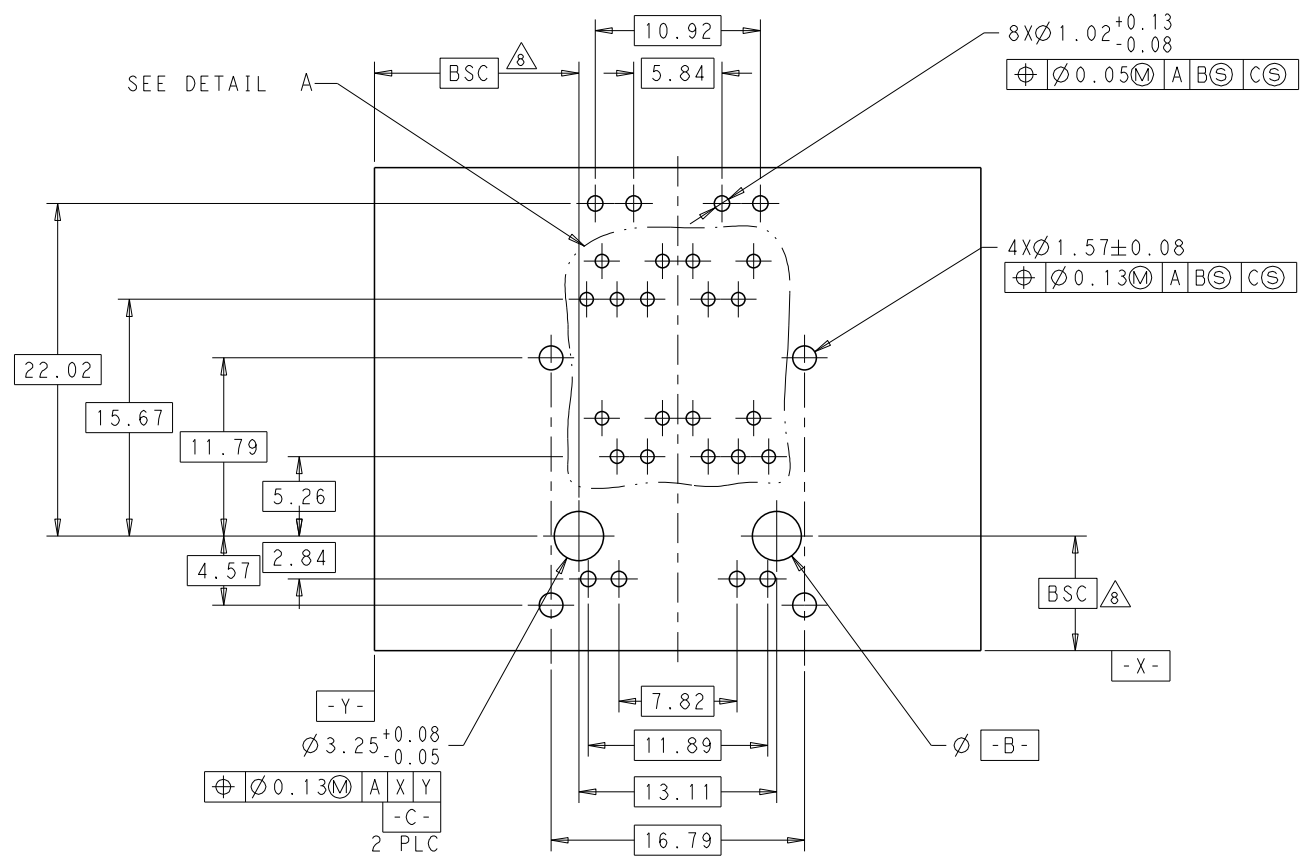
C1 = 1000pF, 2KV CAPACITOR
C2-C5 = 10nF, 50V CAPACITORS
R1-R4 = 75 Ohms, 1/16W, RESISTORS

- 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 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.
- MAGNETICS
APPLICATION: 10/100/1000 BASE-T, EXTENDED TEMPERATURE
IMPEDANCE: 100 OHMS
TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
8mADC BIAS FROM -40°C TO +85°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.
- PART NUMBER,DATE CODE,COUNTRY OF ORIGIN IN APPROPRIATE
LOCATION SHOWN.DATE CODE: "YY" IS YEAR, "WW" IS
WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1
- TRP LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN
APPROXIMATE AREA SHOWN.
- OPERATING TEMPERATURE: FROM -40°C TO +85°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.
- LED COLOR:
DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ I_F=20mA
FORWARD VOLTAGE (V_F): GREEN 2.2V TYP. @ I_F=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ I_F=20mA
FORWARD VOLTAGE (V_F): YELLOW 2.1V TYP. @ I_F=20mA
- THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,
PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

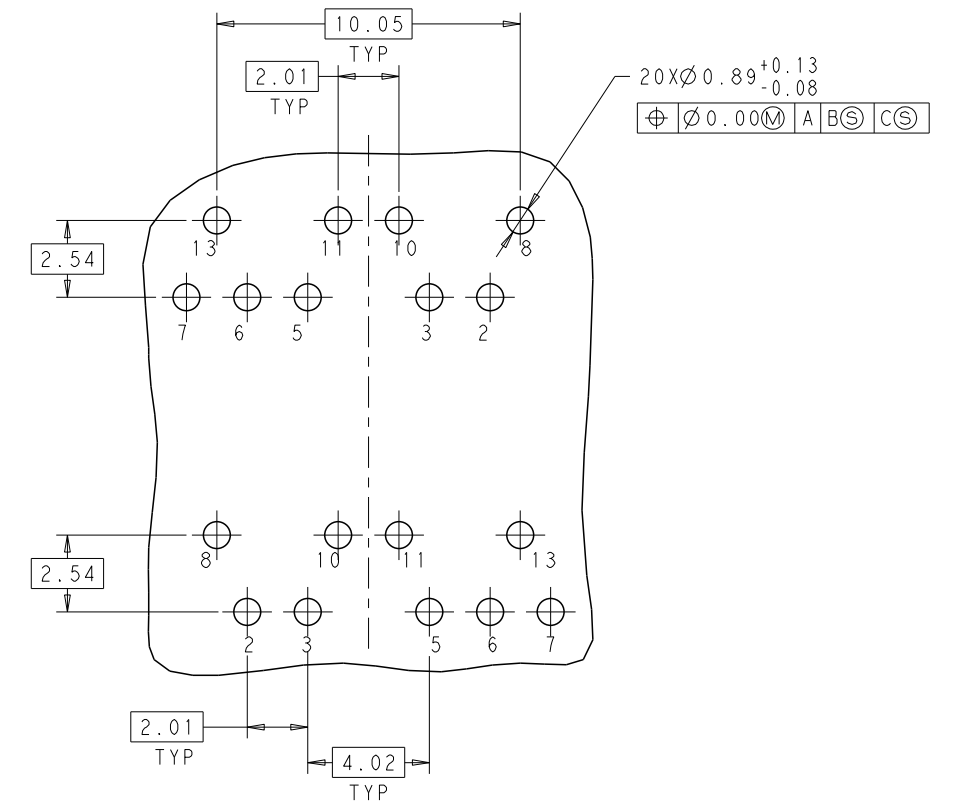
3.18	GRN/YEL	GREEN	GRN/YEL	GREEN	3-1840898-5
3.18	GREEN	GREEN	GREEN	GREEN	1840898-1
DIM A	BOTTOM LED2 COLOR	BOTTOM LED1 COLOR	TOP LED2 COLOR	TOP LED1 COLOR	PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GABRIEL Z.TERRY 1 12MAY2011	 trp CONNECTOR a bel group DONGGUAN CHINA		
DIMENSIONS: mm		CHK TONY YUAN 1 12MAY2011			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD KEITH ZHU 1 12MAY2011			
DIMENSIONS: mm		MODEL NAME MAGJACK			
PRODUCT SPEC 108-104004		DESC STACK Non-PoE	2X1 S8G94ET GIGABIT W/ LED		
APPLICATION SPEC -		SIZE A1	CAGE CODE C=1840898	DRAWING NO -	RESTRICTED TO -
CUSTOMER DRAWING			SCALE NTS	SHEET 1 OF 4	REV C



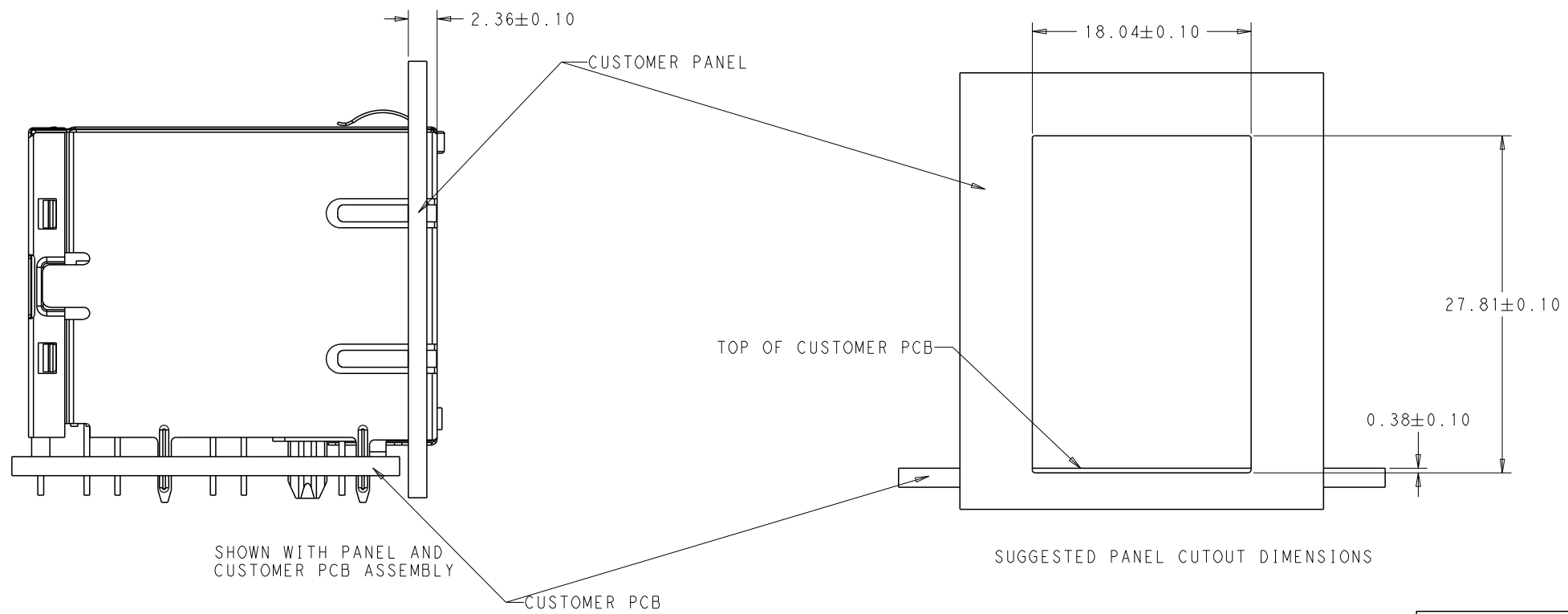
THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN GABRIEL Z. TERRY 12MAY2011		 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS:				CHK TONY YUAN 12MAY2011					
mm				APVD KEITH ZHU 12MAY2011					
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME		DESC		2X1 S8G94ET GIGABIT W/ LED	
		0 PLC ±							
		1 PLC ±							
		2 PLC ±0.25							
		3 PLC ±							
PRODUCT SPEC		APPLICATION SPEC		MAGJACK		SIZE		CAGE CODE	
108-104004		-		STACK Non-PoE		DRAWING NO		RESTRICTED TO	
				CUSTOMER DRAWING		A1		C=1840898	
						SCALE		SHEET 2 OF 4	
						NTS		REV C	



RECOMMENDED PCB LAYOUT
COMPONENT SIDE VIEW
SCALE 4:1

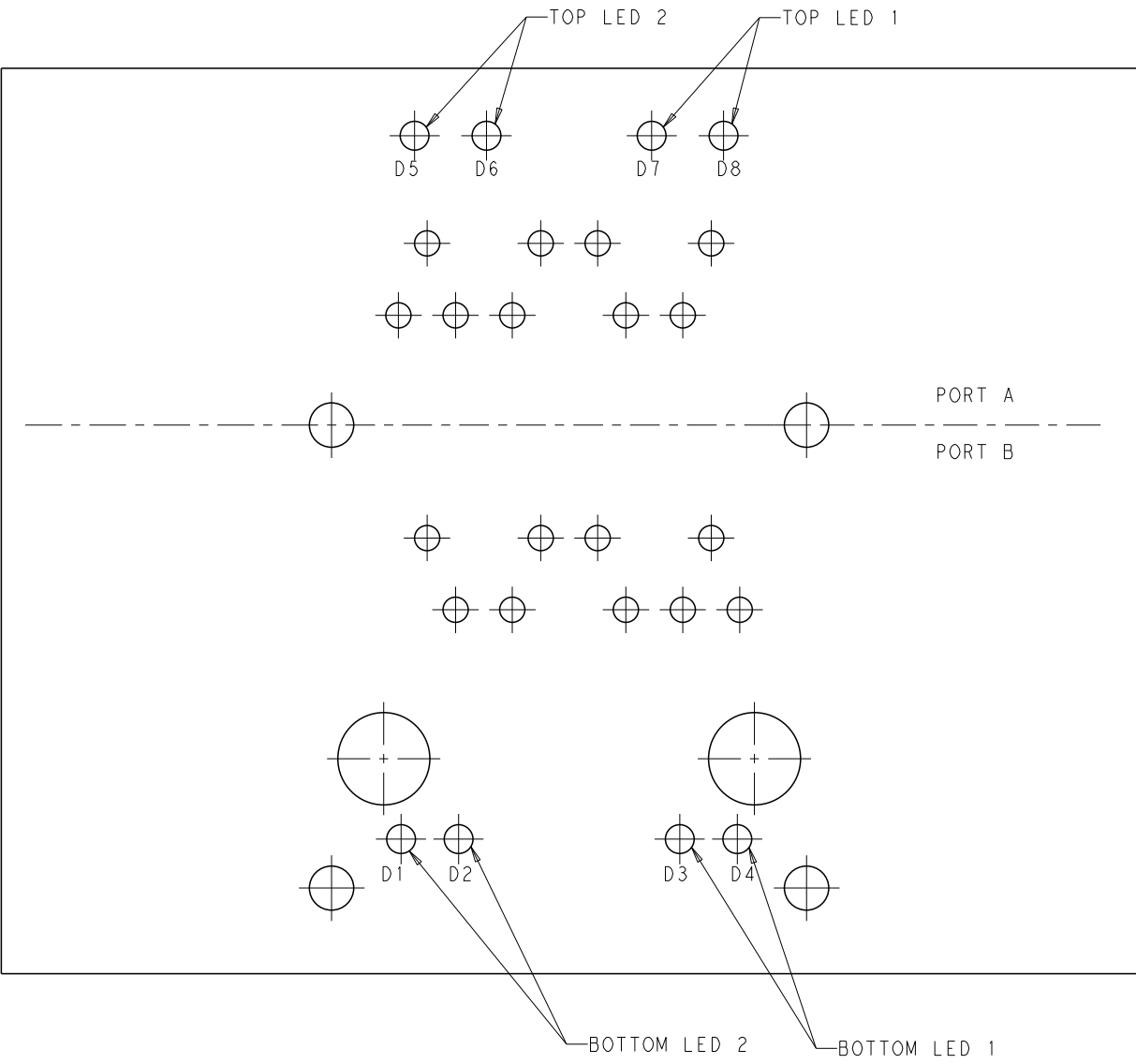


DETAIL A
SCALE 8:1



SUGGESTED PANEL CUTOUT DIMENSIONS

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN GABRIEL Z. TERRY L	12MAY2011
DIMENSIONS:		CHK TONY YUAN	12MAY2011
mm		APPROV KEITH ZHU	12MAY2011
TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME	DESC
0 PLC ±		MAGJACK	2X1 S8G94ET GIGABIT W/ LED
1 PLC ±		STACK Non-PoE	SIZE CAGE CODE DRAWING NO RESTRICTED TO
2 PLC ±0.25		A1	1840898
3 PLC ±		CUSTOMER DRAWING	SCALE NTS SHEET 3 OF 4 REV C
4 PLC ±			
ANGLES			
APPLICATION SPEC			
PRODUCT SPEC			
108-104004			



LED HOLE DESIGNATIONS AND PORT ASSIGNMENT
VIEWED FROM COMPONENT SIDE
SCALE 8:1

