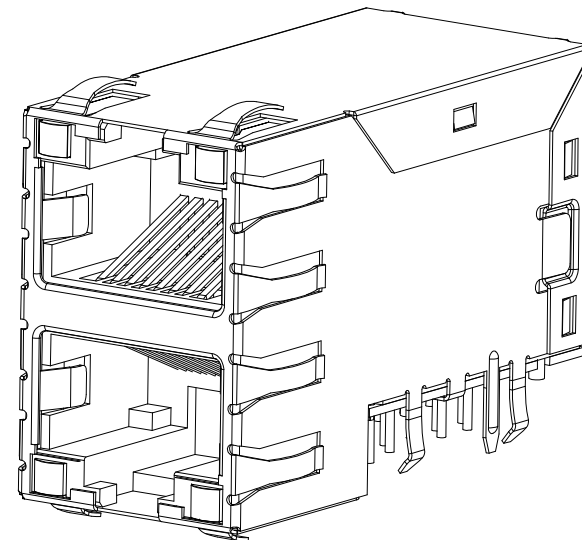


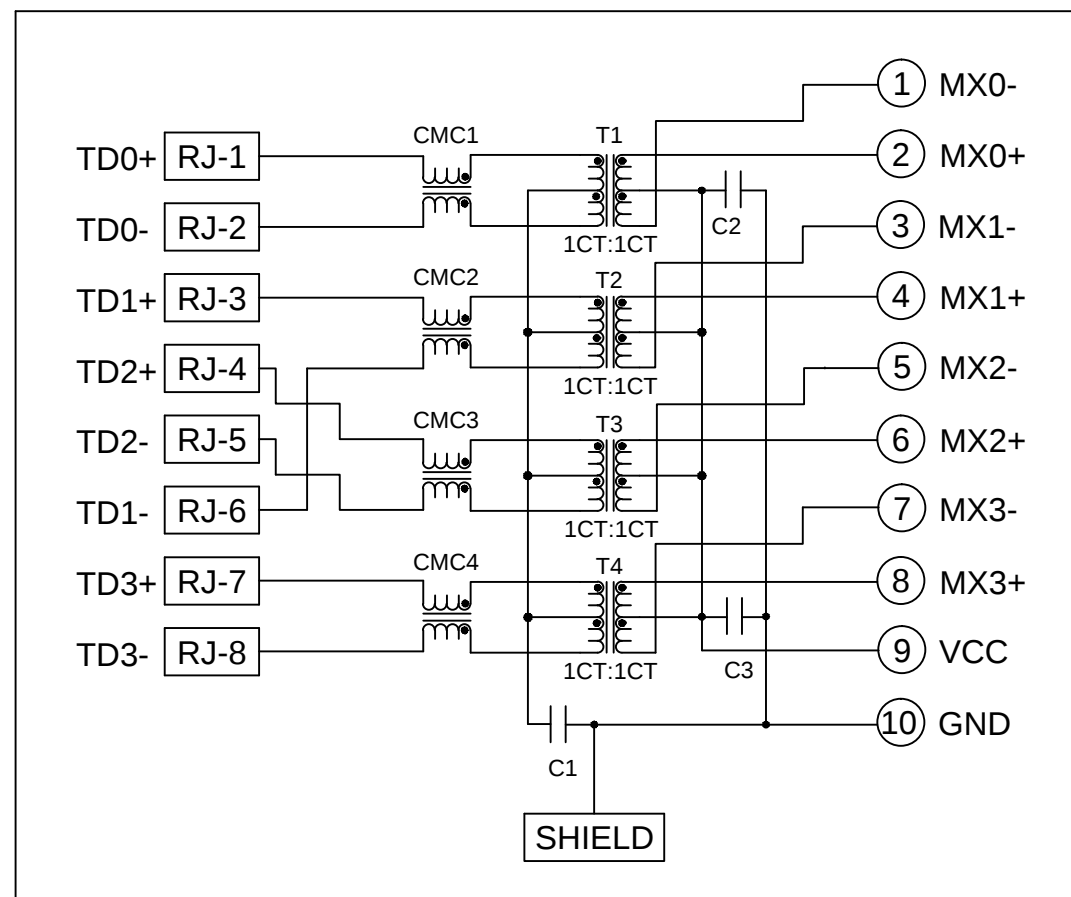
REVISIONS					
#	REV	DESCRIPTION	DATE	BY	APPD
F		LOGO CHANGE	07APR2013	GZ	KZ



SCALE 5:1

S8G17 GIGABIT CIRCUIT

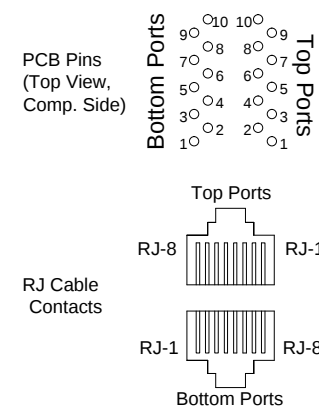
Top and Bottom Ports



1. C1 = 1000pF, 2KV, 10%, X7R
2. C2, C3 = 470pF, 10%, 50V

Pin Designations

(Repeat for each vertical pair of ports.)



- 1 MATERIALS:
- HOUSING: THERMOPLASTIC, BLACK, 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, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE, SELECTIVE 1.27um MIN GOLD AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
 - LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME LEADS, PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL OVER 1.02um MIN COPPER UNDERPLATE, POST PLATED WITH 2.54um MIN MATTE TIN AND/OR 2.54um MIN SAC SOLDER DIP OR PURE TIN SOLDER DIP.

- 2 MAGNETICS:
- APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100ohm
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100KHz, 0.1VRMS, 8mA DC 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 THE APPROXIMATE AREA SHOWN. DATE CODE "YY" IS THE YEAR, "WW" IS THE WEEK, "D" IS THE DAY OF WEEK, WITH SUNDAY="1".

- 4 TRP LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN THE APPROXIMATE AREA SHOWN.

- 5 RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATIONS PART 68 SUBPART F.

- 6 LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA

LED COLOR: DOMINANT WAVELENGTH (λ_D):

GREEN 568 nm TYP at IF=20mA

YELLOW 588 nm TYP at IF=20mA

FORWARD VOLTAGE (VF):

GREEN 2.2V TYP at IF=20mA

YELLOW 2.1V TYP at IF=20mA

ONLY FOR 9-1840130-5

ULTRA LOW WAVELENGTH GREEN (ULWG) 525 nm TYP at IF=20mA

ULTRA LOW WAVELENGTH GREEN (ULWG) 2.8V TYP at IF=20mA

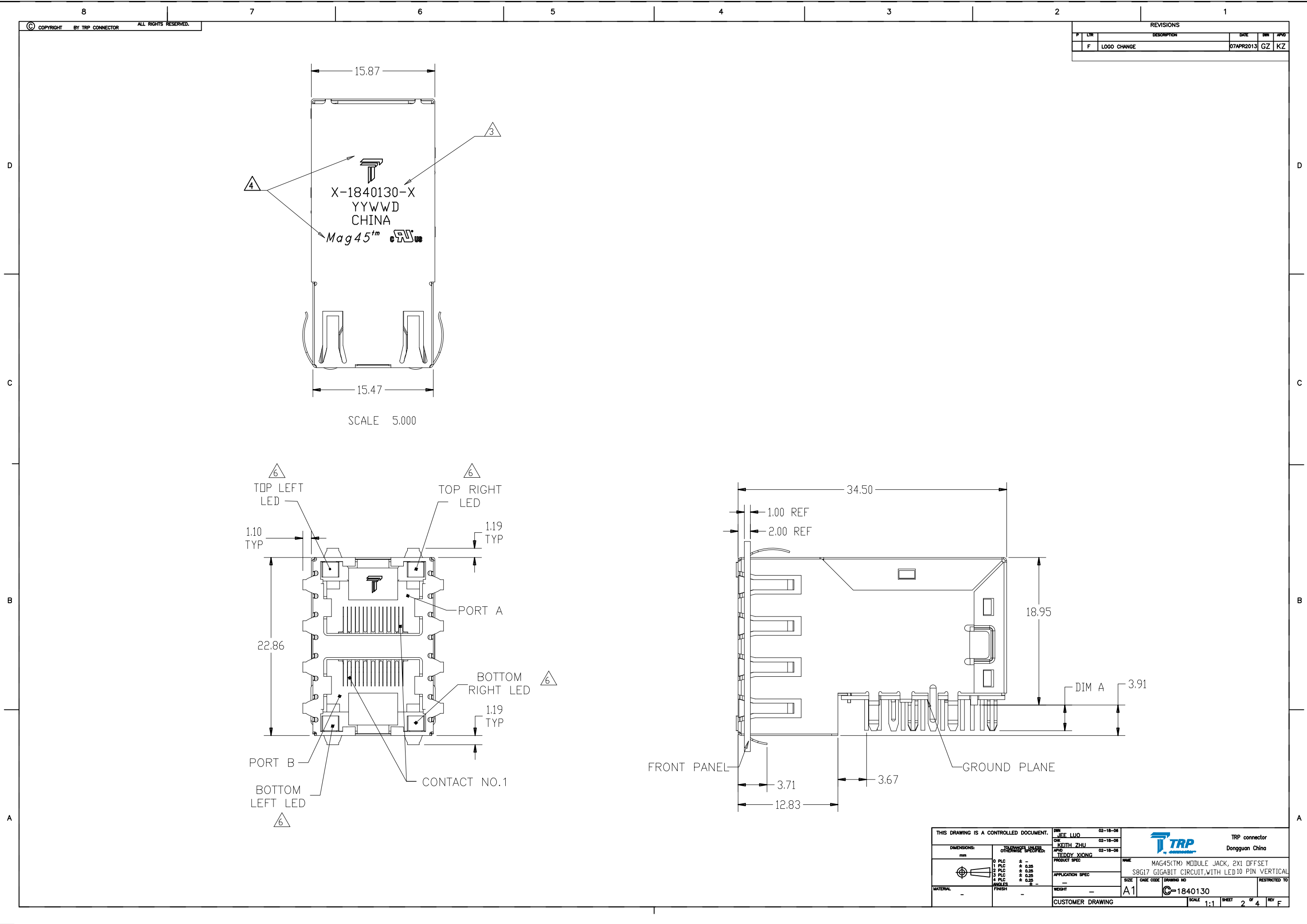
- 7 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

- 8 OPERATING TEMPERATURE: FROM 0°C TO 70°C.

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

2.80	GREEN	GREEN/YELLOW	GREEN	GREEN/YELLOW	1840130-8
3.30	ULWG	ULWG/YELLOW	ULWG	ULWG/YELLOW	9-1840130-5
3.30	GREEN	YELLOW/GREEN	GREEN	YELLOW/GREEN	4-1840130-5
3.30	GREEN	GREEN/YELLOW	GREEN	GREEN/YELLOW	1840130-3
3.30	GREEN	YELLOW	GREEN	YELLOW	1840130-2
3.30	GREEN	GREEN	GREEN	GREEN	1840130-1
DIM A	TOP LEFT LED	TOP RIGHT LED	BOTTOM LEFT LED	BOTTOM RIGHT LED	PART NUMBER

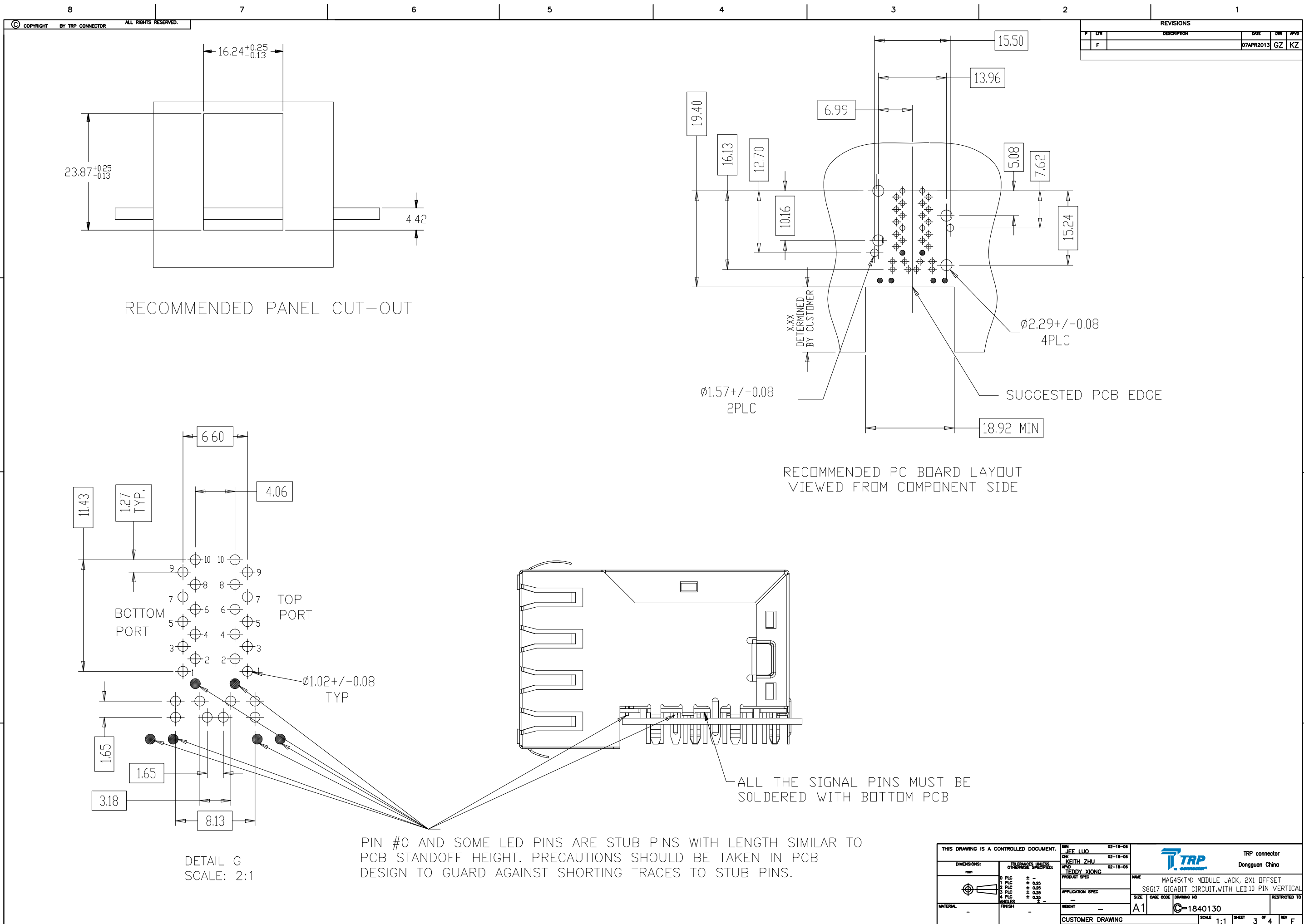
THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 02-18-08	BY: JEFF LUO		TRP connector	
DRAWN BY: KEITH ZHU		DATE: 02-18-08	CHK: TEDDY XIONG		Dongguan China	
APPROVED: TEDDY XIONG		DATE: 02-18-08	PRODUCT SPEC		NAME: MAG45(CTM) MODULE JACK, 2X1 OFFSET	
APPLICATION SPEC		—		SIZE: 1.1		DATE CODE: 1840130
WEIGHT: —		CUSTOMER DRAWING		SCALE: 1:1		SHEET: 1 OF 4
MATERIAL: —		FINISH: —		DRAWING NO: C-1840130		REV: —

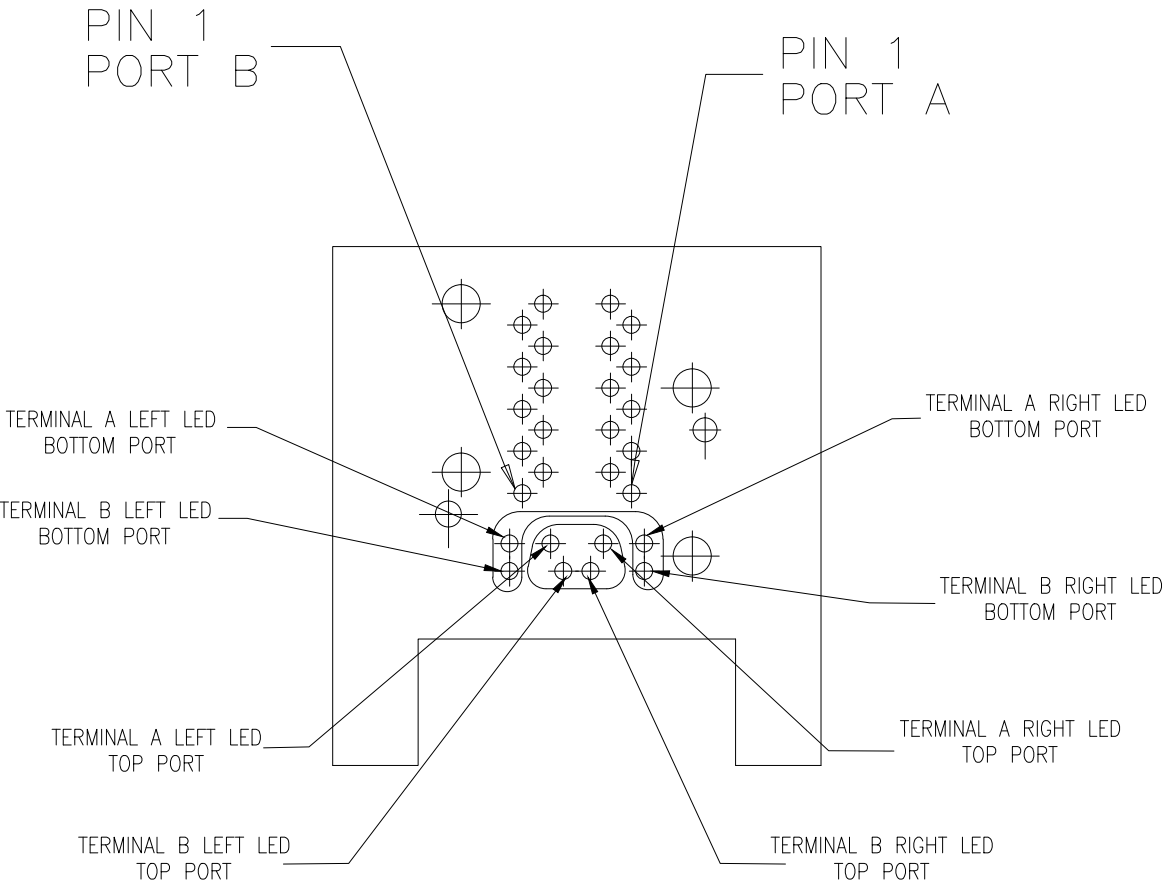


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REVISIONS				
#	LR	DESCRIPTION	DATE	DR
F		LOGO CHANGE	07APR2013	GZ KZ

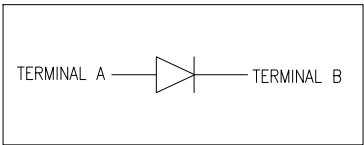
THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN JEFF LUO 02-18-08	TRP connector	
TO BE KEPT UNDER CONTROL		CHK KEITH ZHU 02-18-08	Dongguan China	
OTHERWISE SPECIFIED:		APD TEDDY XIONG 02-18-08		
DIMENSIONS: mm		NAME	MAG45(TM) MODULE JACK, 2X1 OFFSET	
0 PLC ± -		PRODUCT SPEC	S8G17 GIGABIT CIRCUIT, WITH LED 10 PIN VERTICAL	
1 PLC ± 0.25		APPLICATION SPEC		
2 PLC ± 0.25		SIZE	A1	
3 PLC ± 0.25		DATE CODE	C=1840130	
4 PLC ± 0.25		DRAWING NO		
MATERIAL		WEIGHT	CUSTOMER DRAWING	
FINISH		SCALE	1:1	
		SHEET	2 OF 4	
		REV	F	



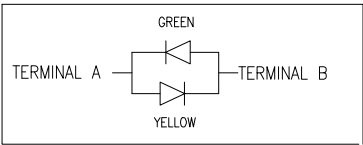


LED HOLE DESIGNATIONS
VIEWED FROM COMPONENT SIDE

SINGLE COLOR LED

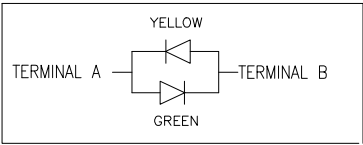


BI COLOR LED



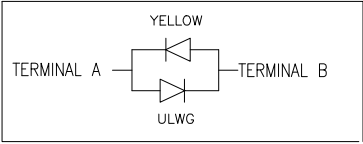
THE SCHEMATICS FOR
1840130-3, 1840130-8

BI COLOR LED



THE SCHEMATICS FOR 4-1840130-5

BI COLOR LED



THE SCHEMATICS FOR 9-1840130-5