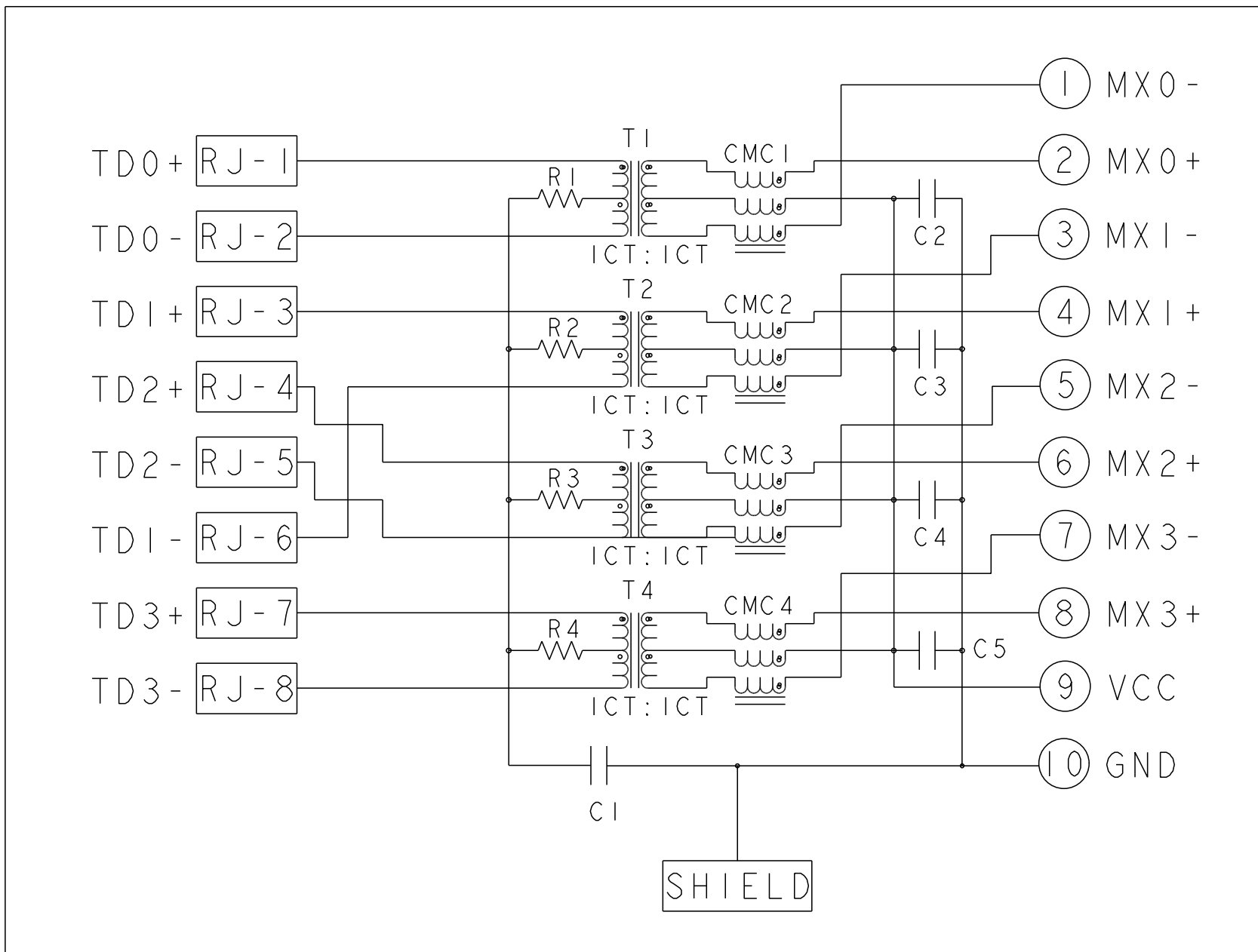


S8G16 GIGABIT CIRCUIT

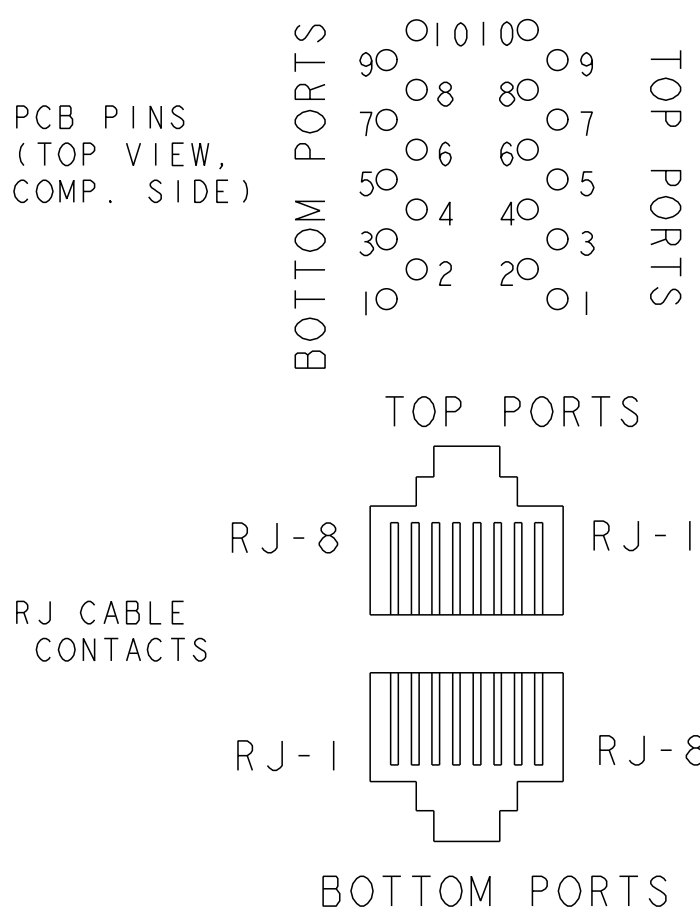
TOP AND BOTTOM PORTS



C1 = 1000pF, 3kV
C2 - C5 = 470pF, 10%, 50V
R1-R4 = 75 OHMS, 1/16W

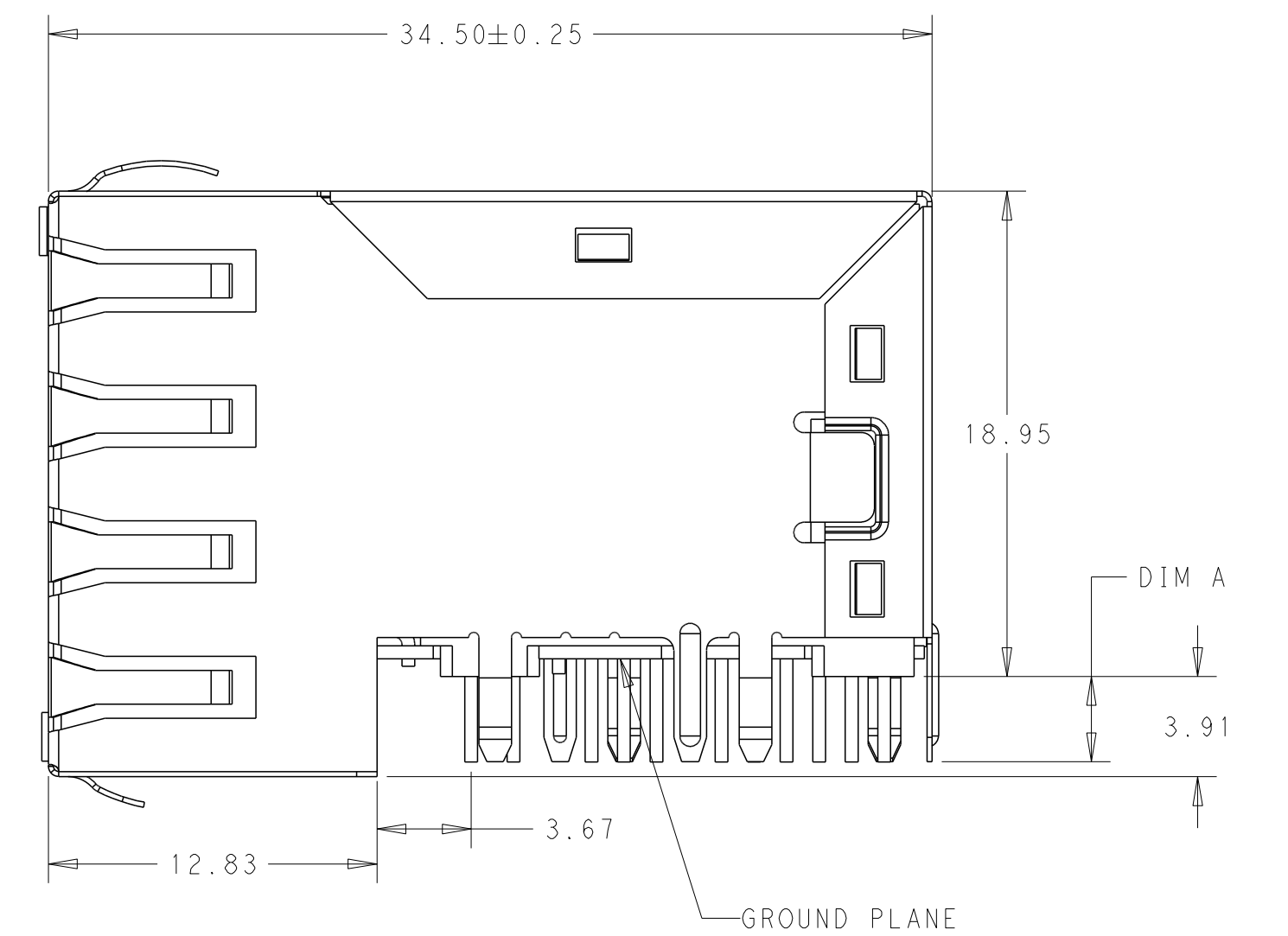
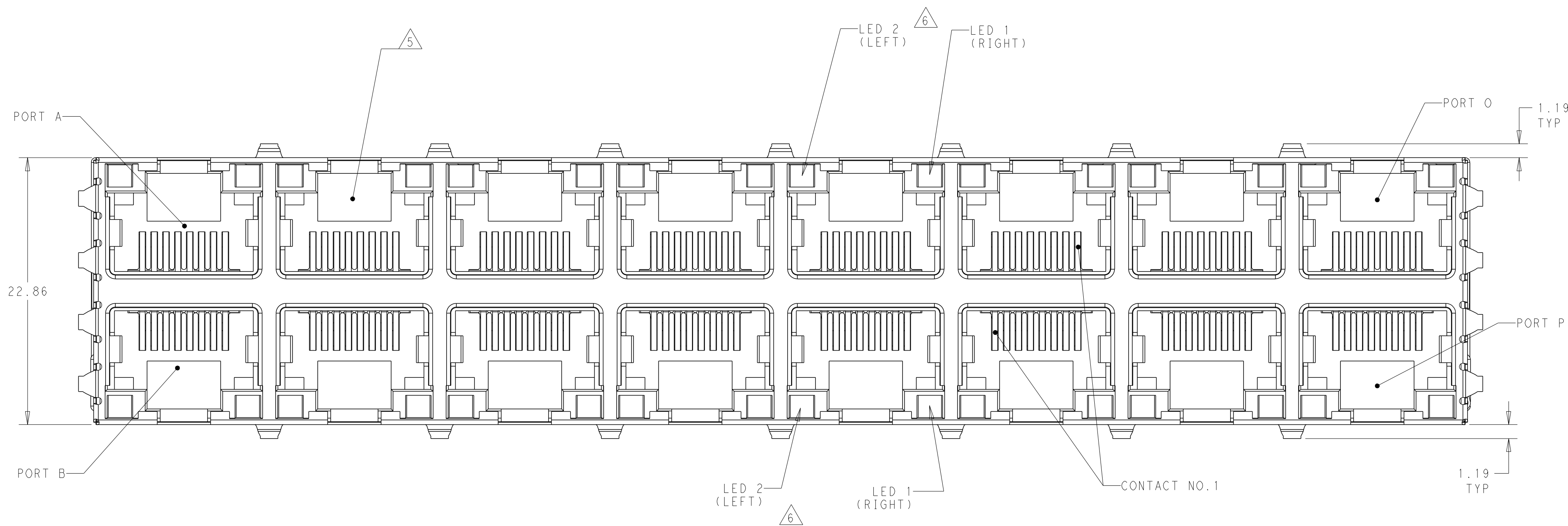
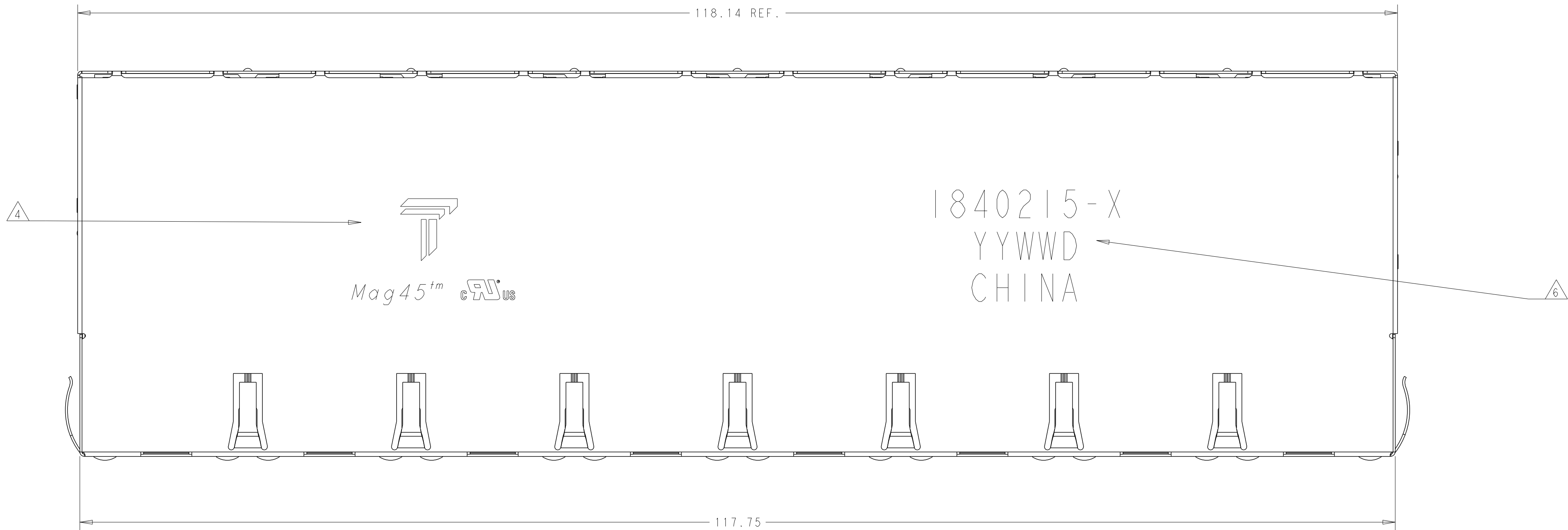
PIN DESIGNATIONS


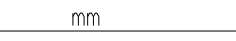
(REPEAT FOR EACH VERTICAL PAIR OF PORTS)

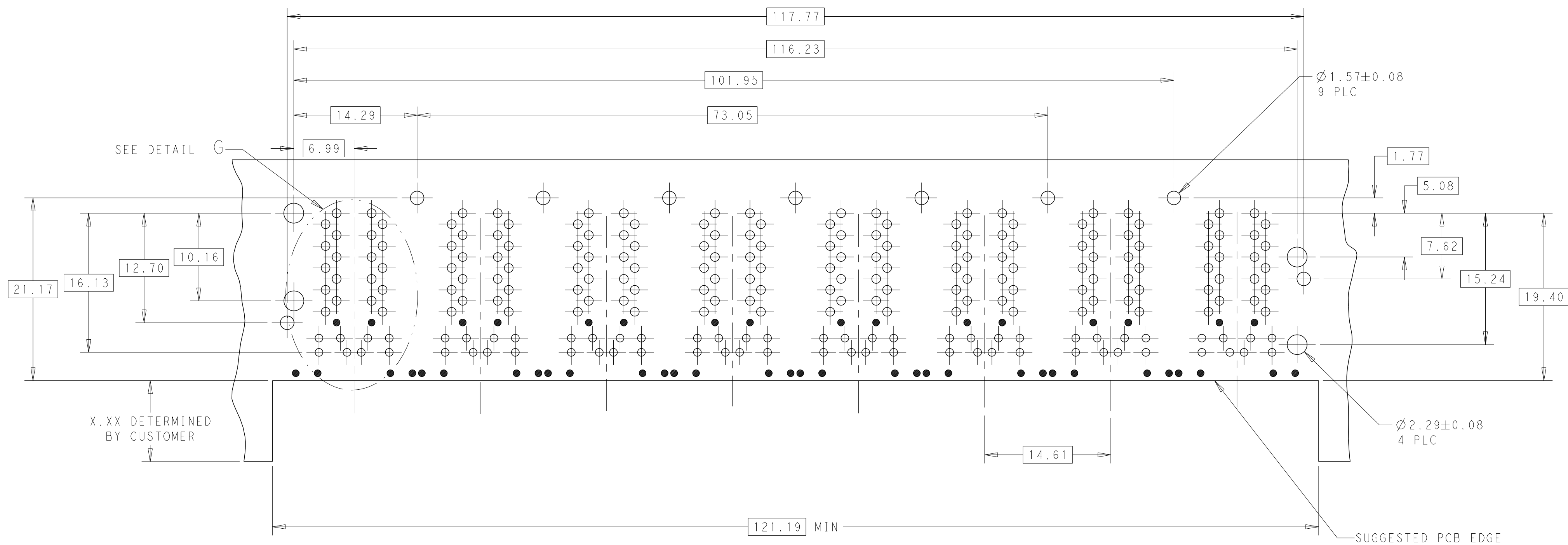


- MATERIALS:
- HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS.
 - CONTACTS: PHOSPHOR BRONZE, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE, SELECTIVE 1.27um MIN GOLD 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.
- MAGNETICS:
- APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100 ohm
 - 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
 - RISE TIME(10%-90%): 2.5ns TYPICAL;
 - 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: COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM a and b.
- 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="I".
- TRP LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN THE APPROXIMATE AREA SHOWN.
- RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATIONS PART 68 SUBPART F.
- LED ARE DRIVEN WITH CONSTANT CURRENT AT APPROX. 20mA
DOMINANT WAVELENGTH (λD)
GREEN, 568nm TYP at IF=20mA
YELLOW,588nm TYP at IF=20mA
FORWARD VOLTAGE (VF):
GREEN, 2.2V TYP at IF=20mA
YELLOW, 2.1V TYP at IF=20mA
- 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 265 °C MAX. 10 SECONDS MAX.

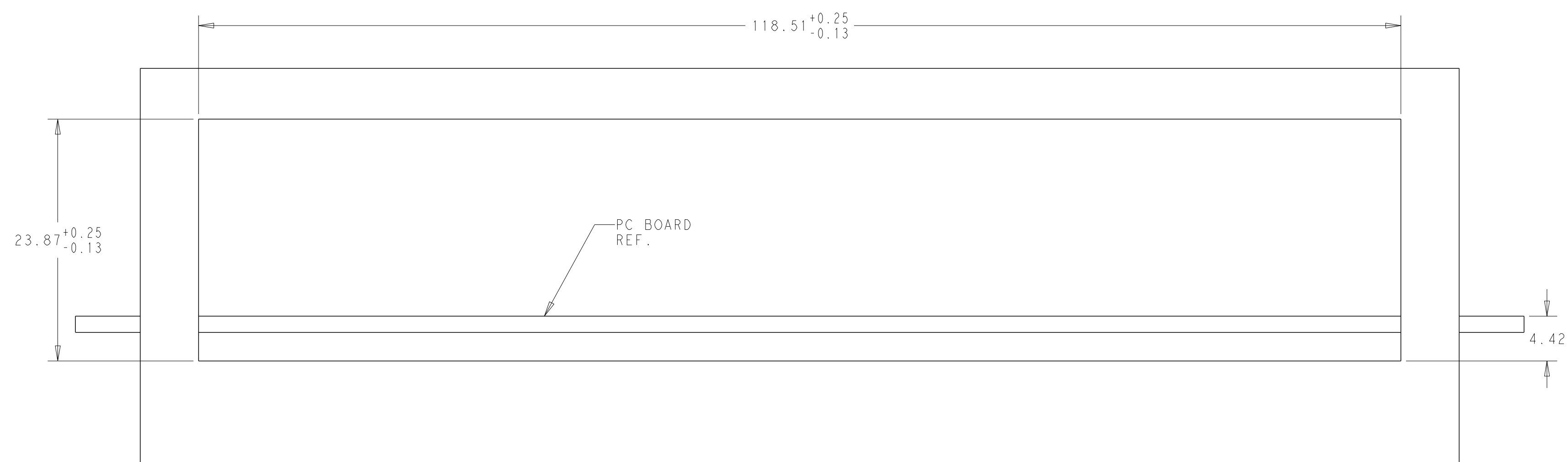
2.80	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	7	1-1840215-4
2.50	GREEN	YELLOW	GREEN	YELLOW	7	1840215-5
3.30	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	7	1840215-4
3.30	YELLOW	GREEN	GREEN	YELLOW	7	1840215-3
3.30	GREEN	YELLOW	GREEN	YELLOW	7	1840215-2
3.30	GREEN	GREEN	GREEN	GREEN	7	1840215-1
DIM A	BOTTOM LED 2 (LEFT)	BOTTOM LED 1 (RIGHT)	TOP LED 2 (LEFT)	TOP LED 1 (RIGHT)	REAR PCB GND TABS	PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN WAVE XU 15SEP2006	TRP connector Dongguan China		
DIMENSIONS:			CHE DENNIS CHEN 15SEP2006			
mm			APVD TEDDY XIONG 15SEP2006			
TOLERANCES UNLESS OTHERWISE SPECIFIED:			PRODUCT SPEC			
0 PLC ±0.25			108-104004	NAME ZYX8 MAG45(TM). MODULAR JACK, OFFSET		
2 PLC ±0.25			APPLICATION SPEC	S8G16 GIGABIT CIRCUIT, W/LED'S		
3 PLC ±0.25				SIZE CAGE CODE DRAWING NO		
4 PLC ±				A1		
MATERIAL			WEIGHT	C=1840215		
1				Customer Drawing		
				SCALE 4:1 SHEET 1 OF 4 REV F		



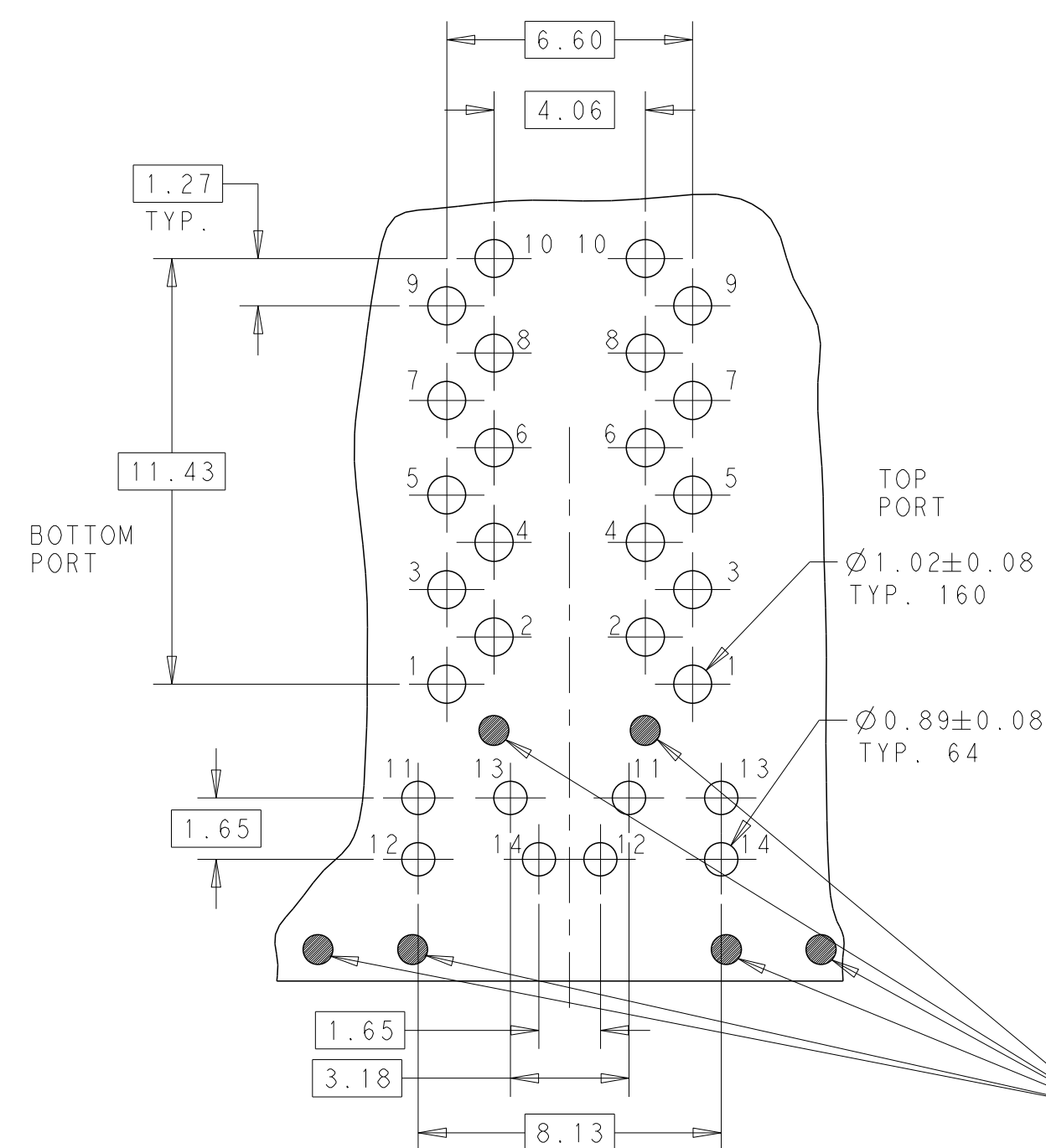
THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN WAVE XU 15SEP2006		 TRP connector Dongguan China	
				CHW DENNIS CHEN 15SEP2006			
				APVD TEDDY XIONG 15SEP2006			
				PRODUCT SPEC 108-104004			
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC		NAME 2X8 MAG45(TM), MODULAR JACK, OFFSET	
		0 PLC ±.0025				S8G16 GIGABIT CIRCUIT, W/LED'S	
		1 PLC ±.0025					
		3 PLC ±.0025					
		4 PLC ±.0025					
MATERIAL		FINISH		WEIGHT -		SIZE A1	
				Customer Drawing		DRAWING NO. C=1840215	
						RESTRICTED TO -	
						SCALE 4:1	
						SHEET 2 OF 4	
						REV F	



RECOMMENDED
PC BOARD LAYOUT VIEW FROM COMPONENT SIDE




RECOMMENDED PANEL CUT-OUT

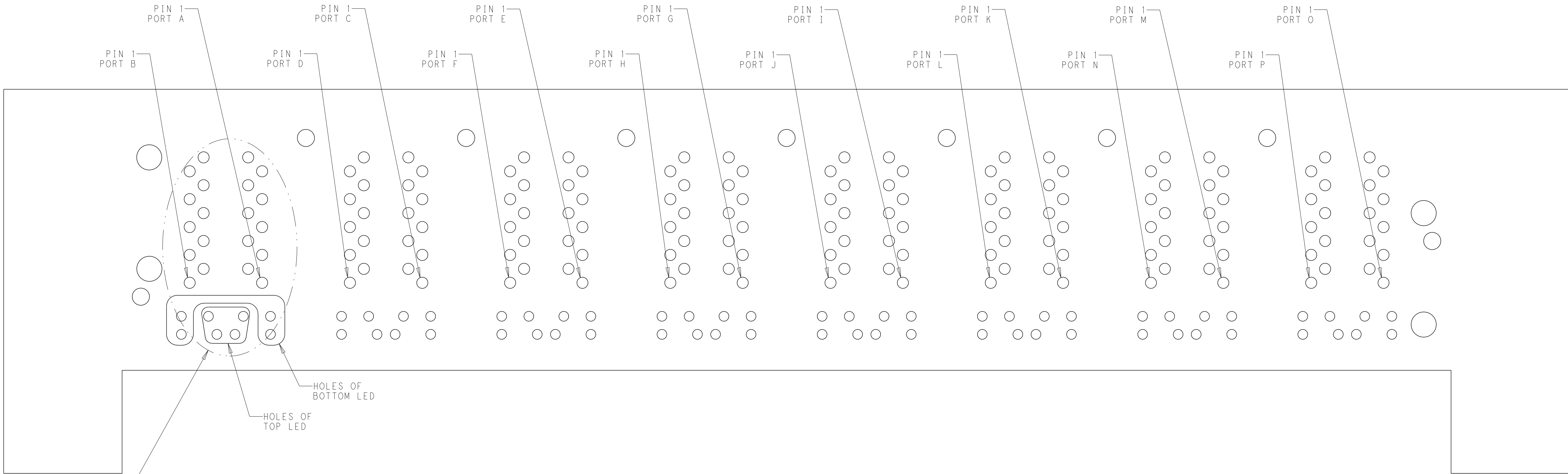


PIN #0, BOTTOM LED'S PIN ON MOD JACK AND BOTTOM PCB ARE STUB
PINS WITH LENGTH SIMILAR TO PCB STANDOFF HEIGHT PRECAUTIONS SHOULD
BE TAKEN IN PCB DESIGN TO GUARD AGAINST SHORTING TRACES TO STUB PINS

ALL THE SIGNAL PINS MUST
BE SOLDERED WITH BOTTOM PCB

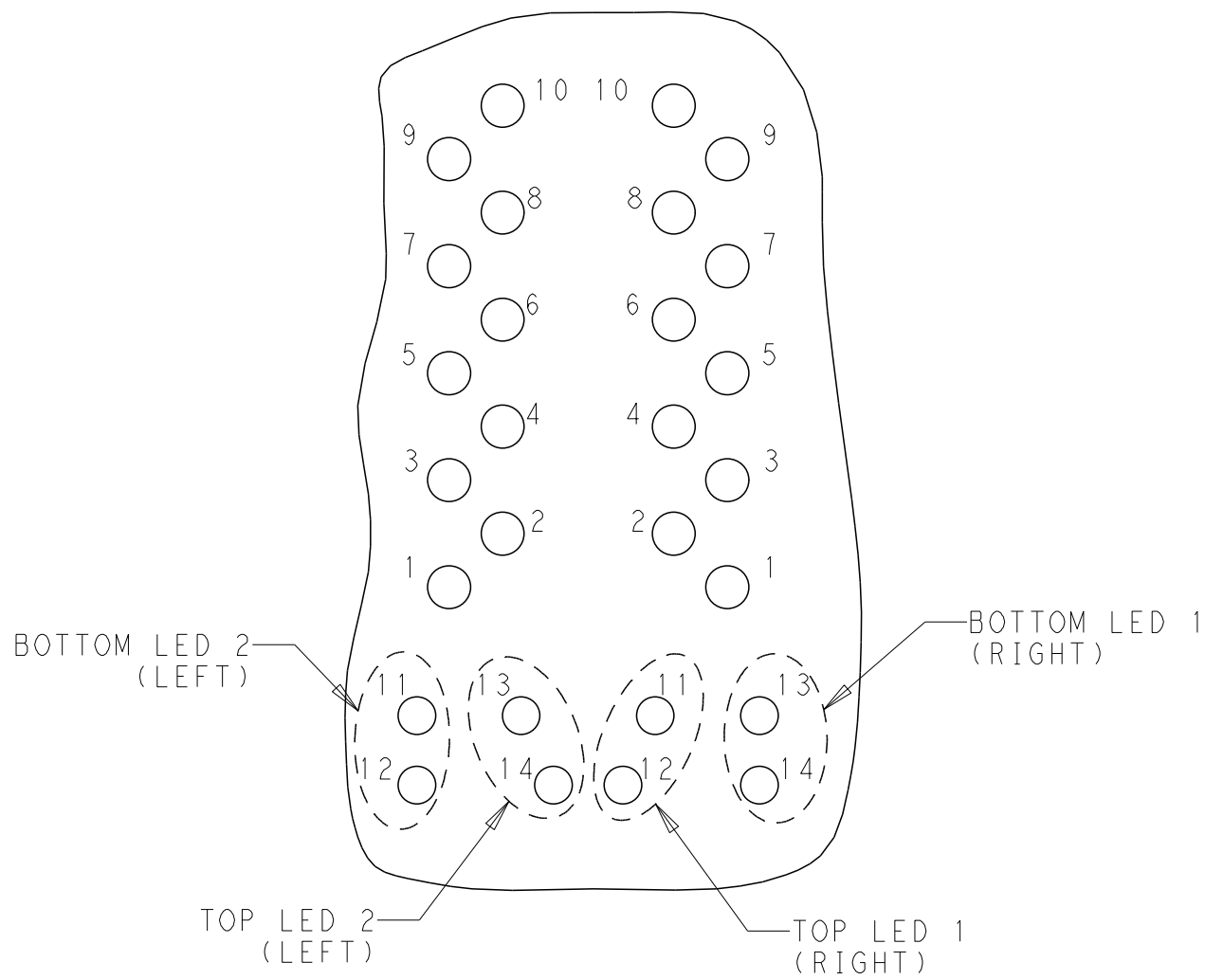
DETAIL G
SCALE 6:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN WAVE XU 15SEP2006		TRP connector Dongguan China	
DIMENSIONS: mm		CHK DENNIS CHEN 15SEP2006			
		APVD TEDDY XIONG 15SEP2006			
		PRODUCT SPEC 108-104004			
		APPLICATION SPEC			
		ANGLES FINISH			
MATERIAL		WEIGHT			
		Customer Drawing			
		SCALE 3:1			
		SHEET 3			
		OF 4			
		REV F			



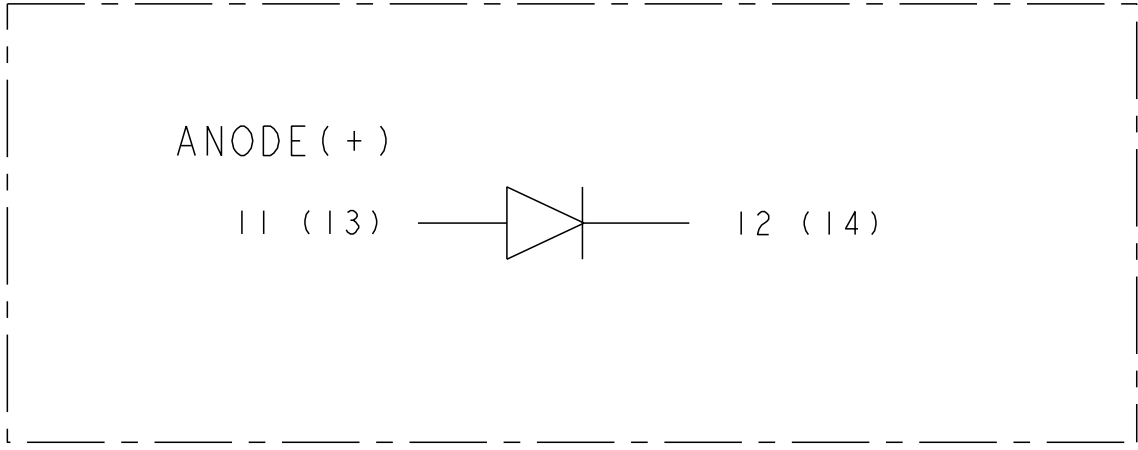
SEE DETAIL B

LED HOLE DESIGNATIONS VIEWED FROM COMPONENT SIDE
SCALE 5:1

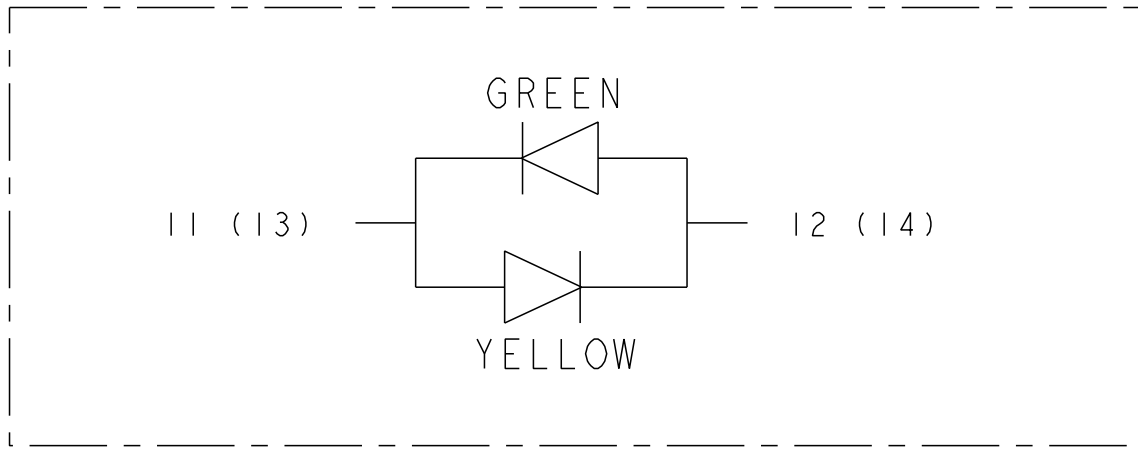



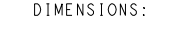
DETAIL B
SCALE 6:1

SINGLE COLOR LED



BI COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN WAVE XU 15SEP2006		 TRP connector Dongguan China	
				CHW DENNIS CHEN 15SEP2006			
				APVD TEDDY XIONG 15SEP2006			
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC		NAME	
mm				108-104004		2X8 MAG45(TM), MODULAR JACK, OFFSET	
				APPLICATION SPEC		S8G16 GIGABIT CIRCUIT, W/LED'S	
		0 PLC ±.05		WEIGHT		SIZE	
		2 PLC ±.05		FINISH		CAGE CODE	
		4 PLC ±.05				DRAWING NO	
		0 ANGLES ±.05				RESTRICTED TO	
MATERIAL						A 1	
						C=1840215	
Customer Drawing				SCALE 1:1		SHEET 4 OF 4	
						REV F	