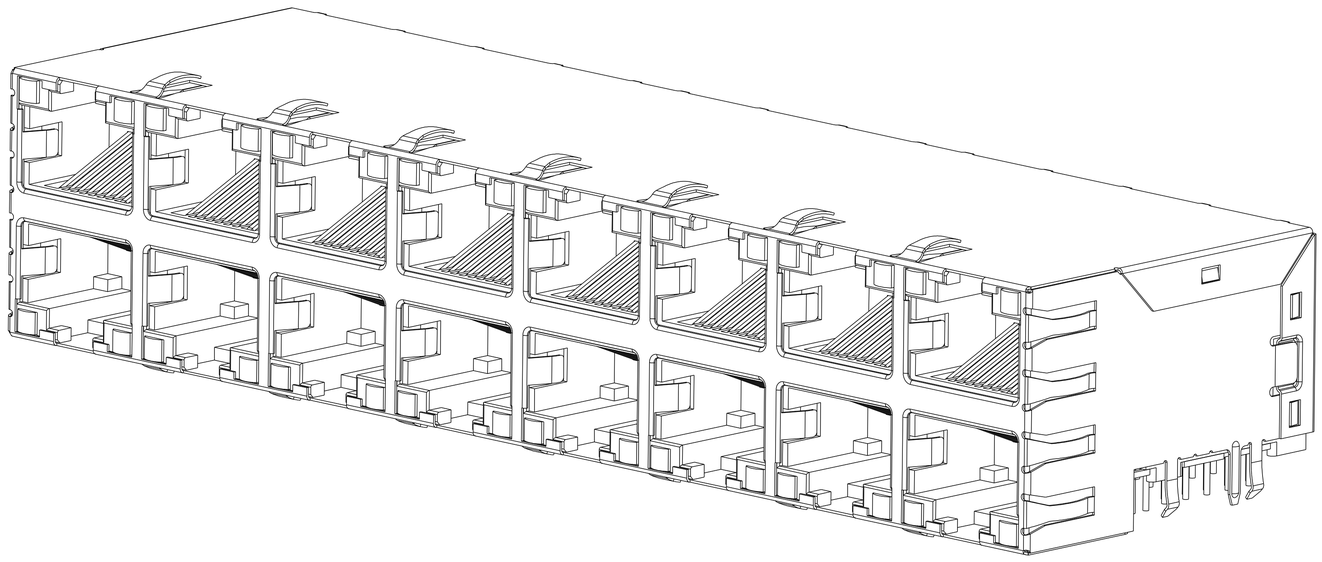
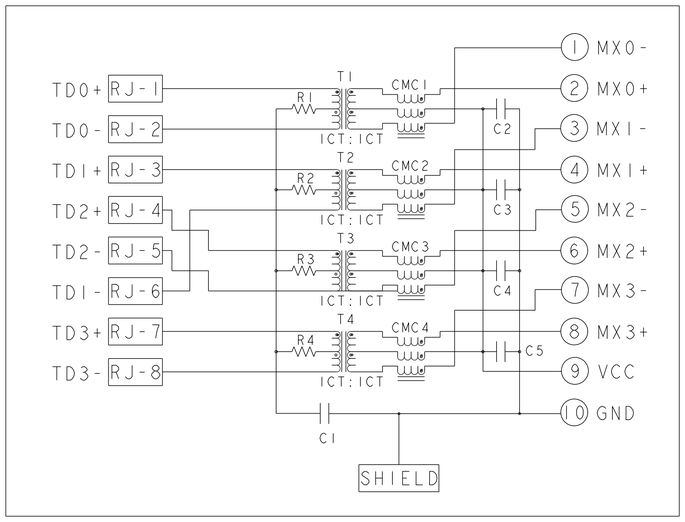
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	F	LOGO CHANGE	18APR2013	GZ	KZ



S8G16 GIGABIT CIRCUIT

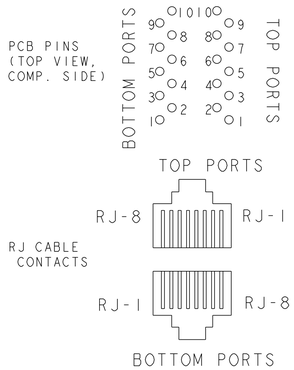
TOP AND BOTTOM PORTS △2 △7



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

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: 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.

△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 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

△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 265 °C MAX. 10 SECONDS MAX.

DIM A	BOTTOM LED 2 (LEFT)	BOTTOM LED 1 (RIGHT)	TOP LED 2 (LEFT)	TOP LED 1 (RIGHT)	REAR PCB GND TABS	PART NUMBER
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

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±·
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±0.25
4 PLC ±·
ANGLES ±·

MATERIAL △1
FINISH △1

DWN	WAVE XU	15SEP2006
CHK	DENNIS CHEN	15SEP2006
APVD	TEDDY XIONG	15SEP2006

TRP connector
Dongguan China

PRODUCT SPEC: 108-104004
APPLICATION SPEC: -
WEIGHT: -

NAME: 2X8 MAG45(TM), MODULAR JACK, OFFSET S8G16 GIGABIT CIRCUIT, W/LED'S

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		C-1840215	-

Customer Drawing | SCALE 4:1 | SHEET 1 OF 4 | REV F

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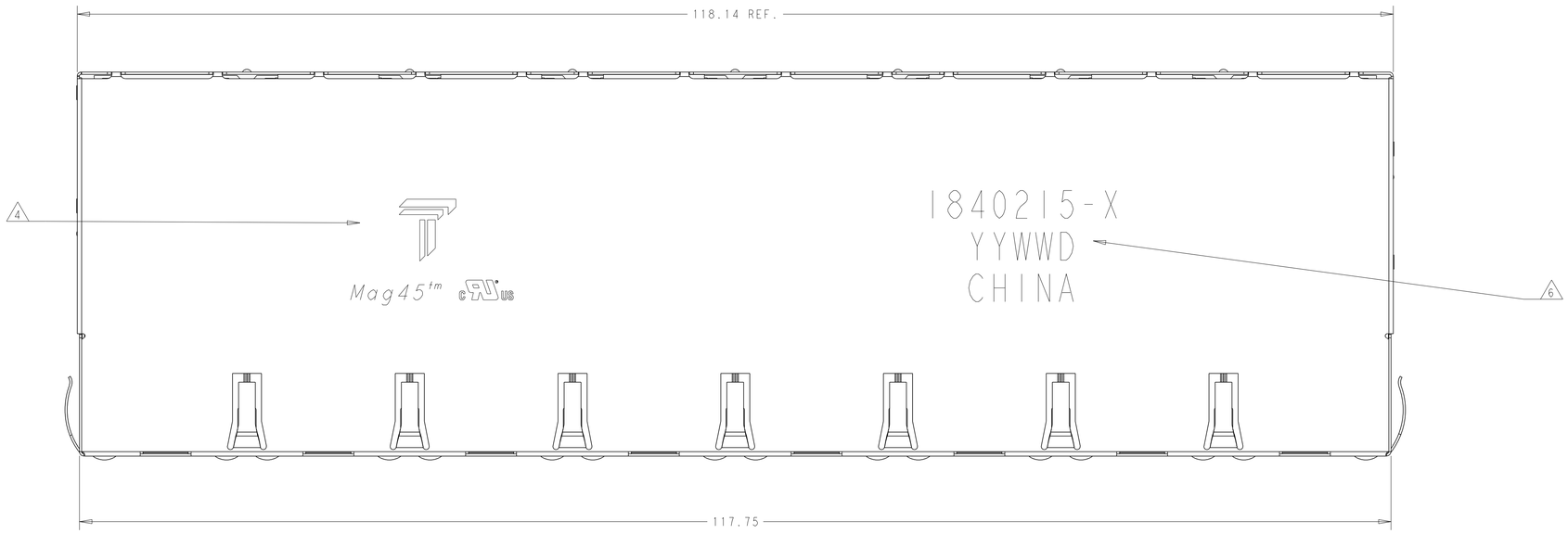
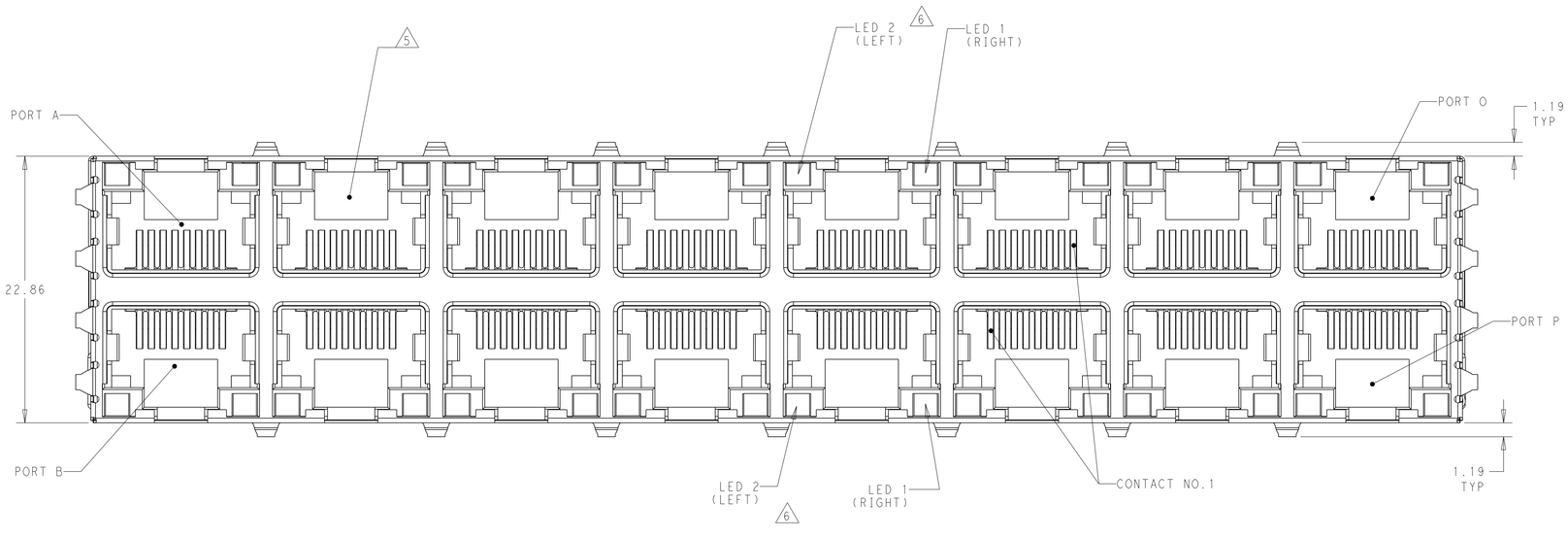
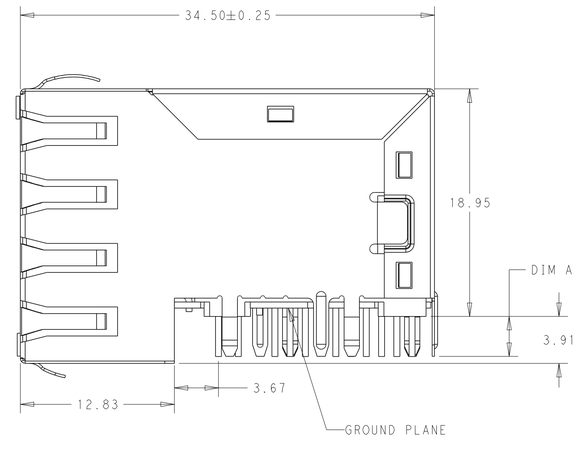
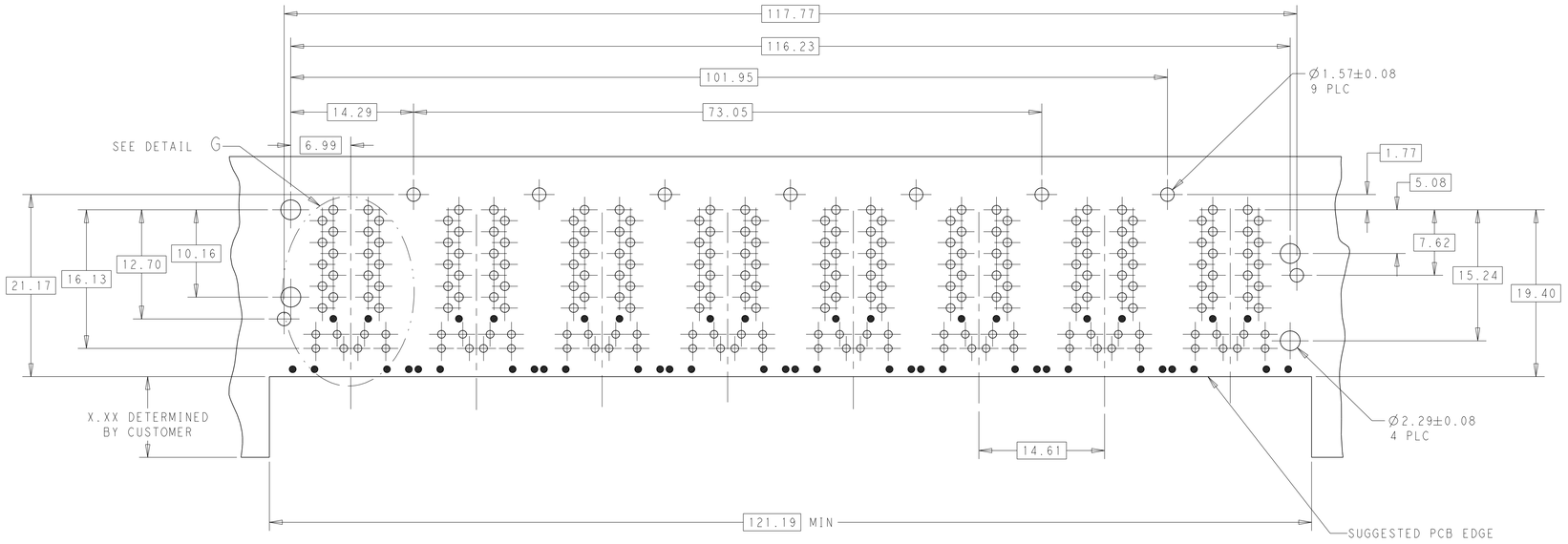




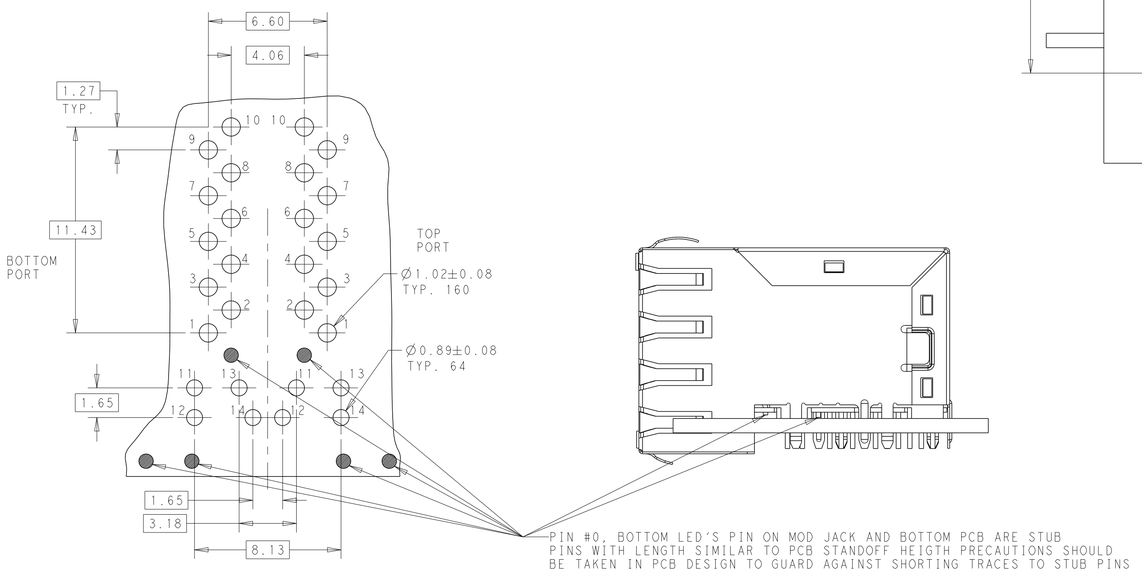


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN WAVE XU 15SEP2006	TRP connector Dongguan China
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±- ANGLES ±-	CHK DENNIS CHEN 15SEP2006	NAME 2X8 MAG45(TM), MODULAR JACK, OFFSET S8G16 GIGABIT CIRCUIT, W/LED'S
		APVD TEDDY XIONG 15SEP2006	
		PRODUCT SPEC 108-104004	
		APPLICATION SPEC -	SIZE A1 / CAGE CODE / DRAWING NO C-1840215 / RESTRICTED TO -
MATERIAL	FINISH	WEIGHT -	
Customer Drawing		SCALE 4:1	SHEET 2 OF 4 / REV F

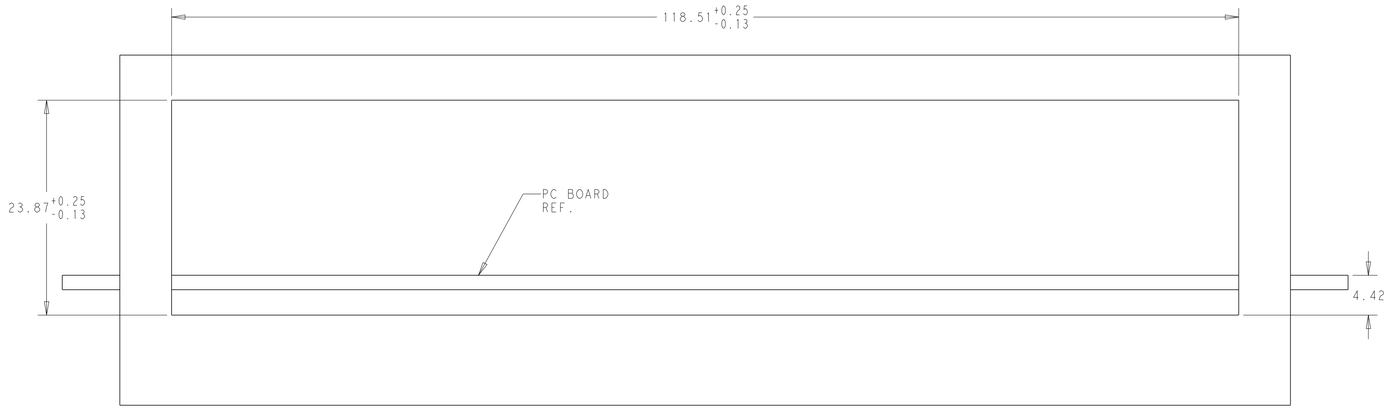
xxxxx



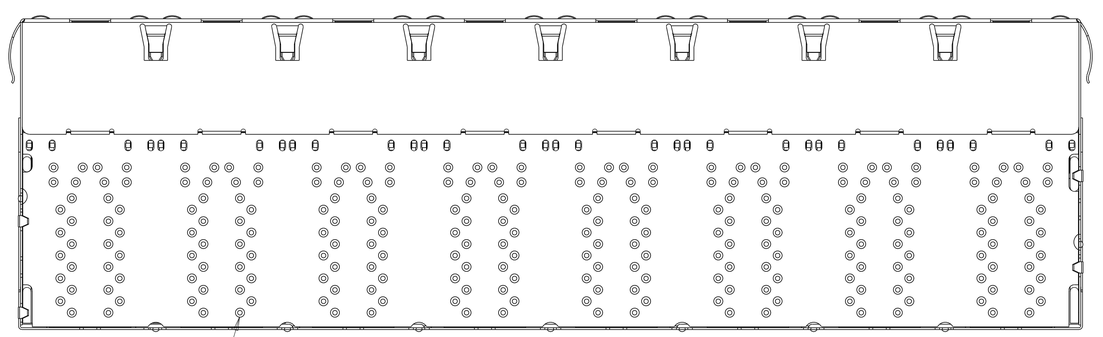
RECOMMENDED
PC BOARD LAYOUT VIEW FROM COMPONENT SIDE



DETAIL G
SCALE 6:1



RECOMMENDED PANEL CUT-OUT



THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN WAVE XU 15SEP2006	TRP connector	TRP connector Dongguan China
DIMENSIONS: mm	CHK DENNIS CHEN 15SEP2006		
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±- ANGLES ±-	APVD TEDDY XIONG 15SEP2006	NAME	2X8 MAG45(TM), MODULAR JACK, OFFSET S8G16 GIGABIT CIRCUIT, W/LED'S
MATERIAL	PRODUCT SPEC 108-104004	SIZE A1	CAGE CODE
FINISH	APPLICATION SPEC -	DRAWING NO C-1840215	RESTRICTED TO -
	WEIGHT -	Customer Drawing	SCALE 3:1 SHEET 3 OF 4 REV F

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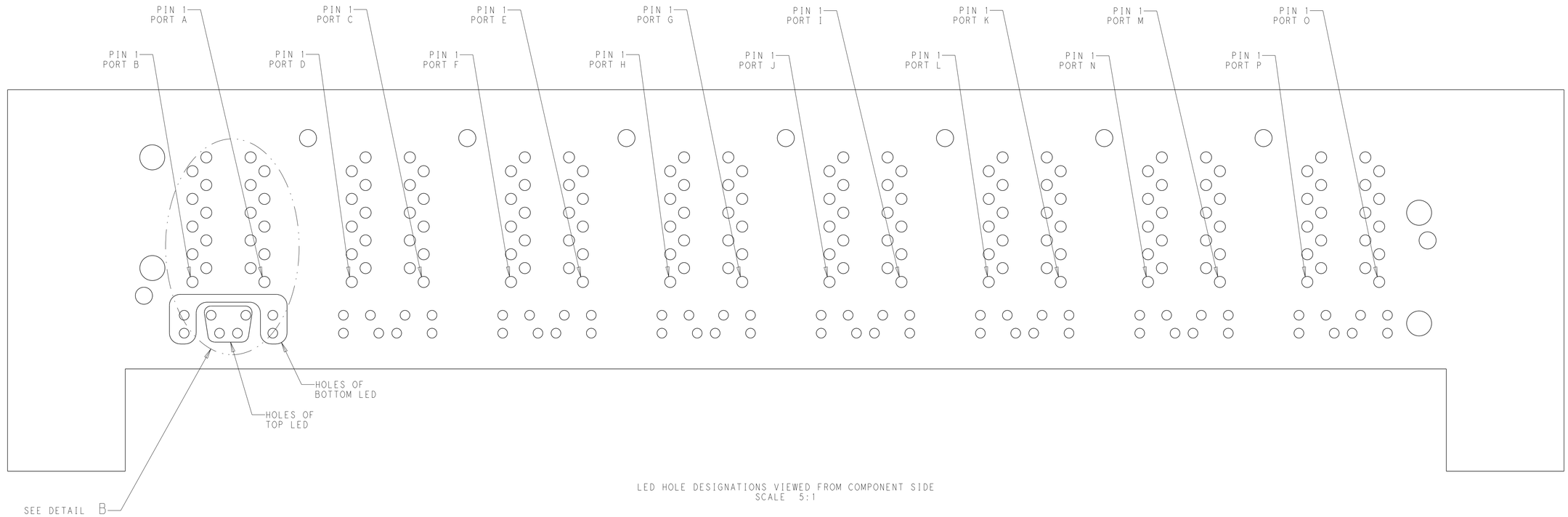
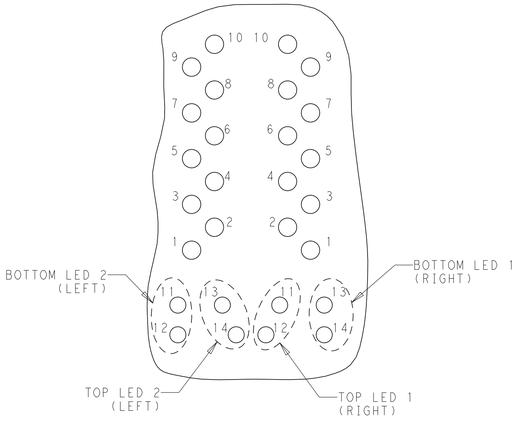
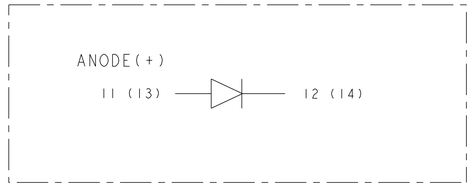


LED HOLE DESIGNATIONS VIEWED FROM COMPONENT SIDE
SCALE 5:1

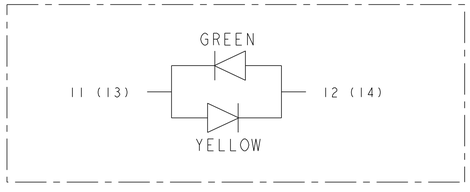


DETAIL B
SCALE 6:1

SINGLE COLOR LED



BI COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN WAVE XU 15SEP2006	TRP connector Dongguan China
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±- ANGLES ±-	CHK DENNIS CHEN 15SEP2006	NAME 2X8 MAG45(TM), MODULAR JACK, OFFSET S8G16 GIGABIT CIRCUIT, W/LED'S
		APVD TEDDY XIONG 15SEP2006	
		PRODUCT SPEC 108-104004	
		APPLICATION SPEC -	SIZE A1 / CAGE CODE / DRAWING NO C-1840215 / RESTRICTED TO -
MATERIAL	FINISH	WEIGHT -	SCALE 1:1 / SHEET 4 OF 4 / REV F
		Customer Drawing	

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