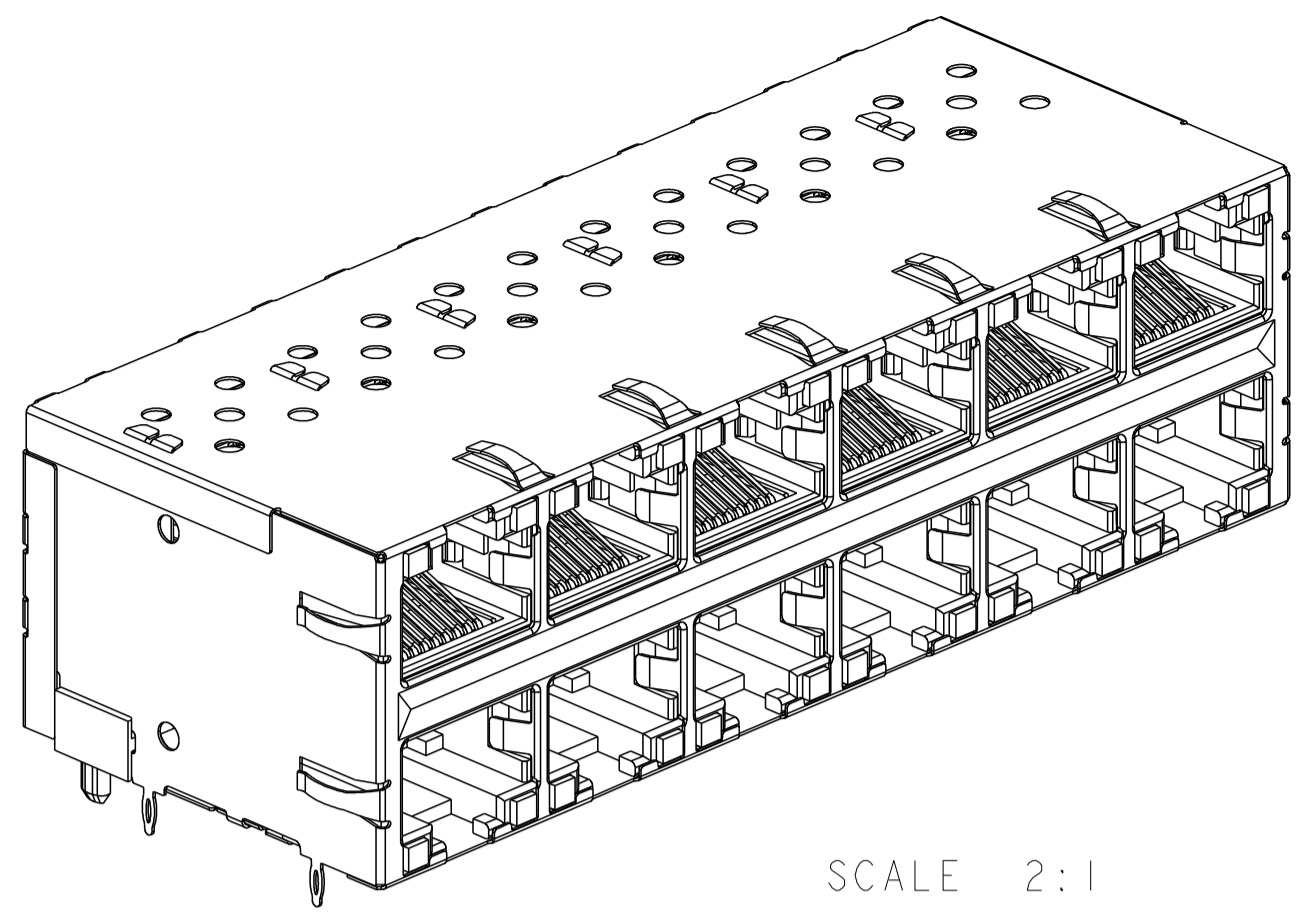
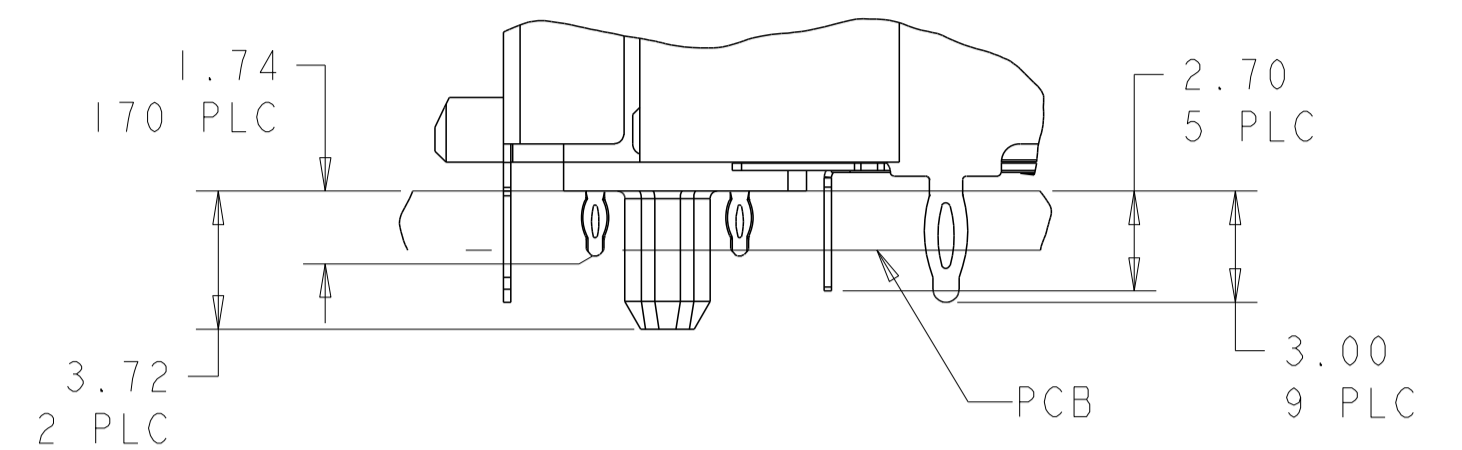
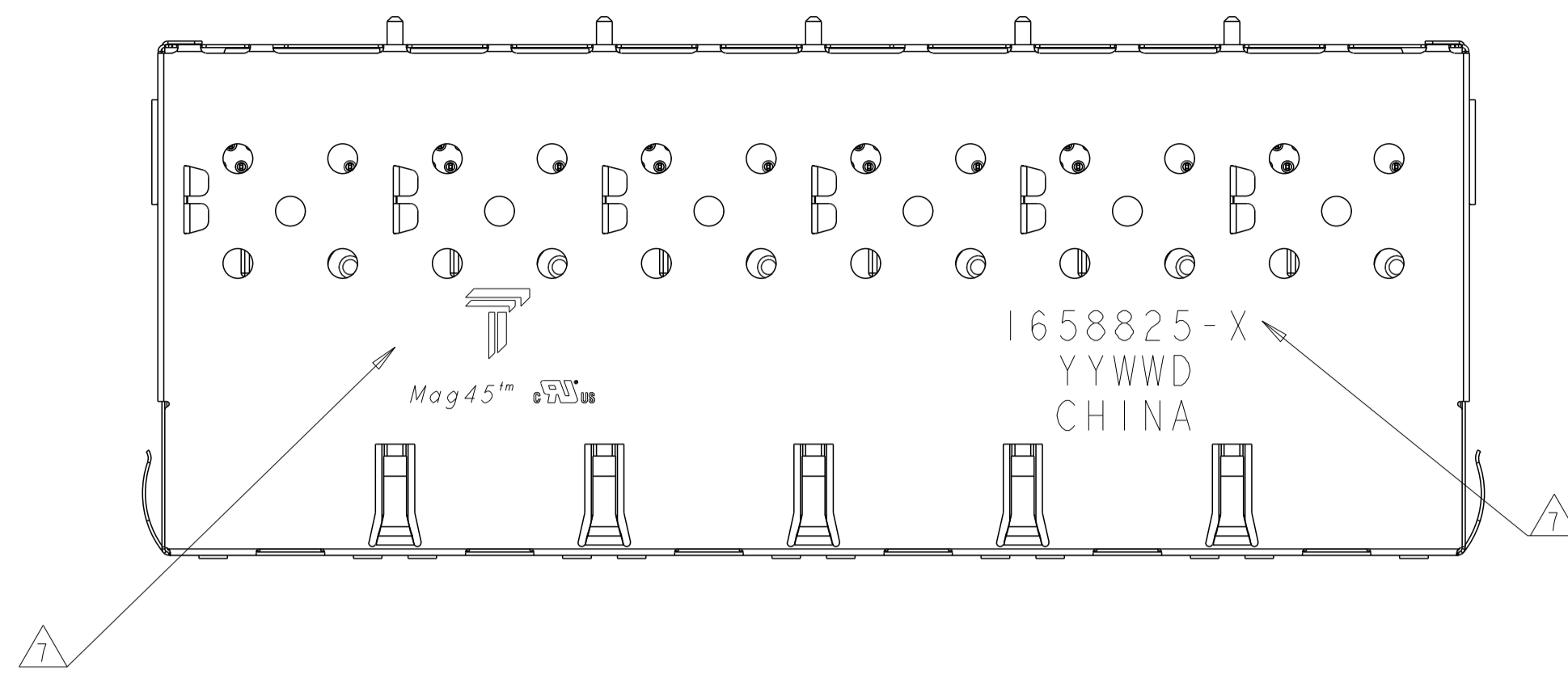


REVISIONS				
P	LTR	DESCRIPTION	DATE	OWN APVD
F		LOGO CHANGE	09APR2013	GZ HZ

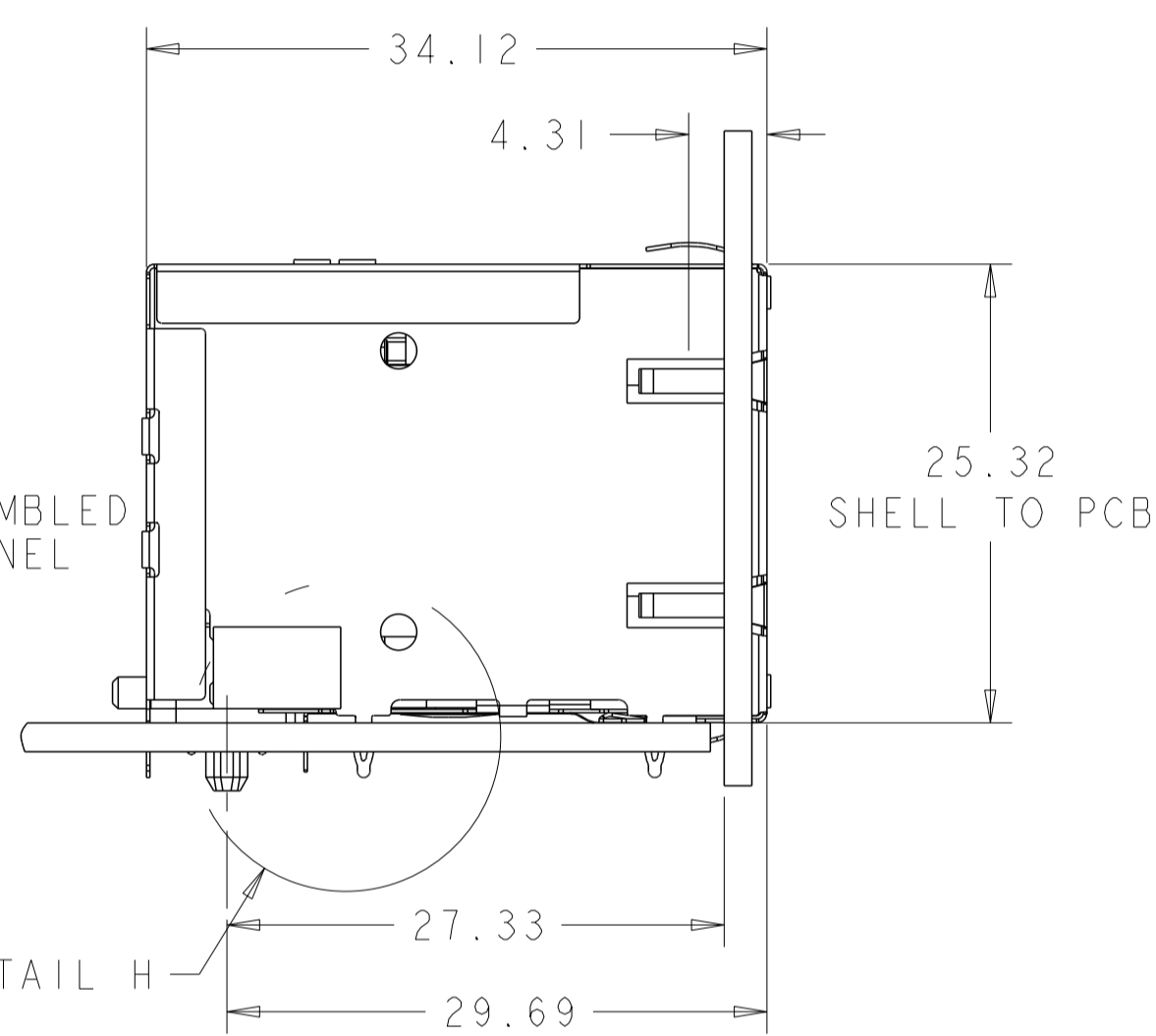


SCALE 2:1

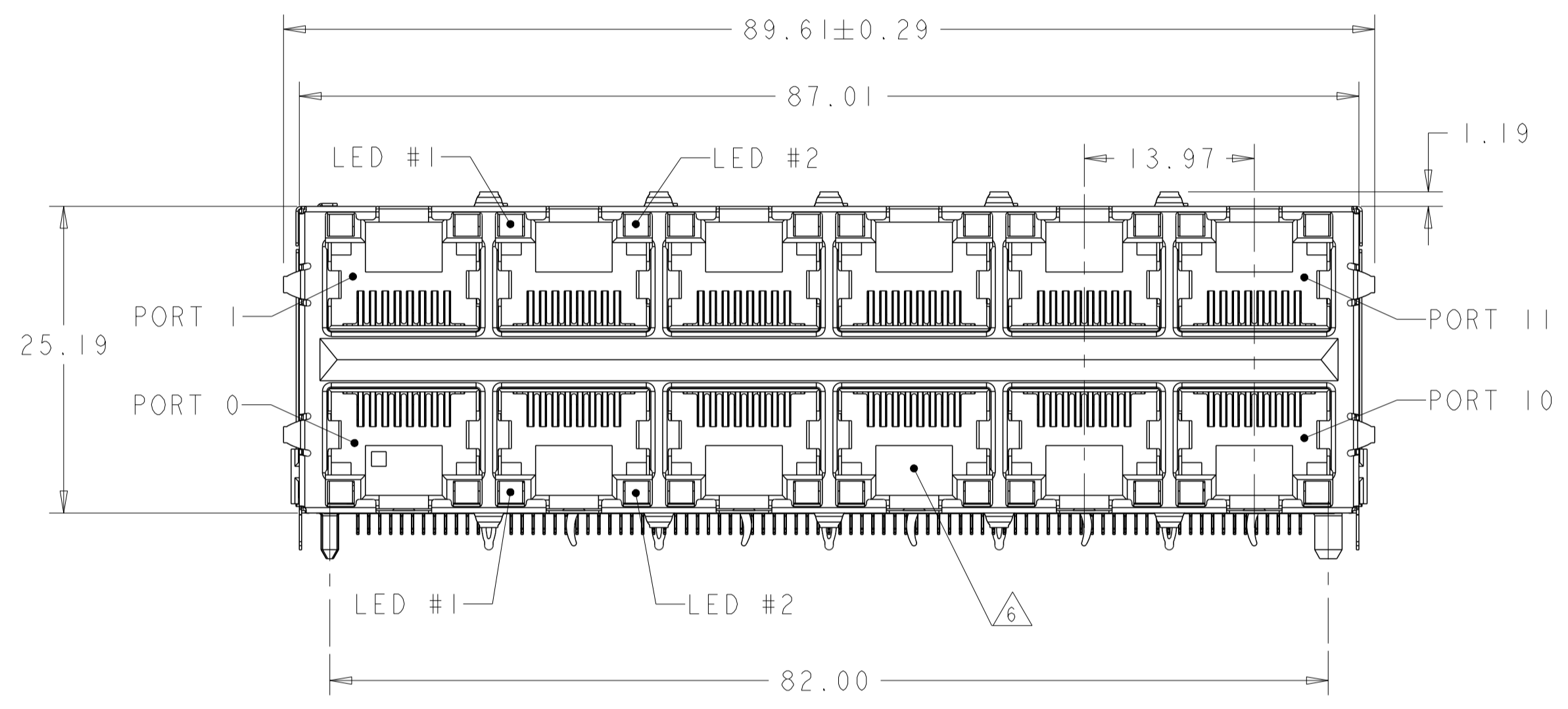


DETAIL H
PRESS FIT
SCALE 5:1

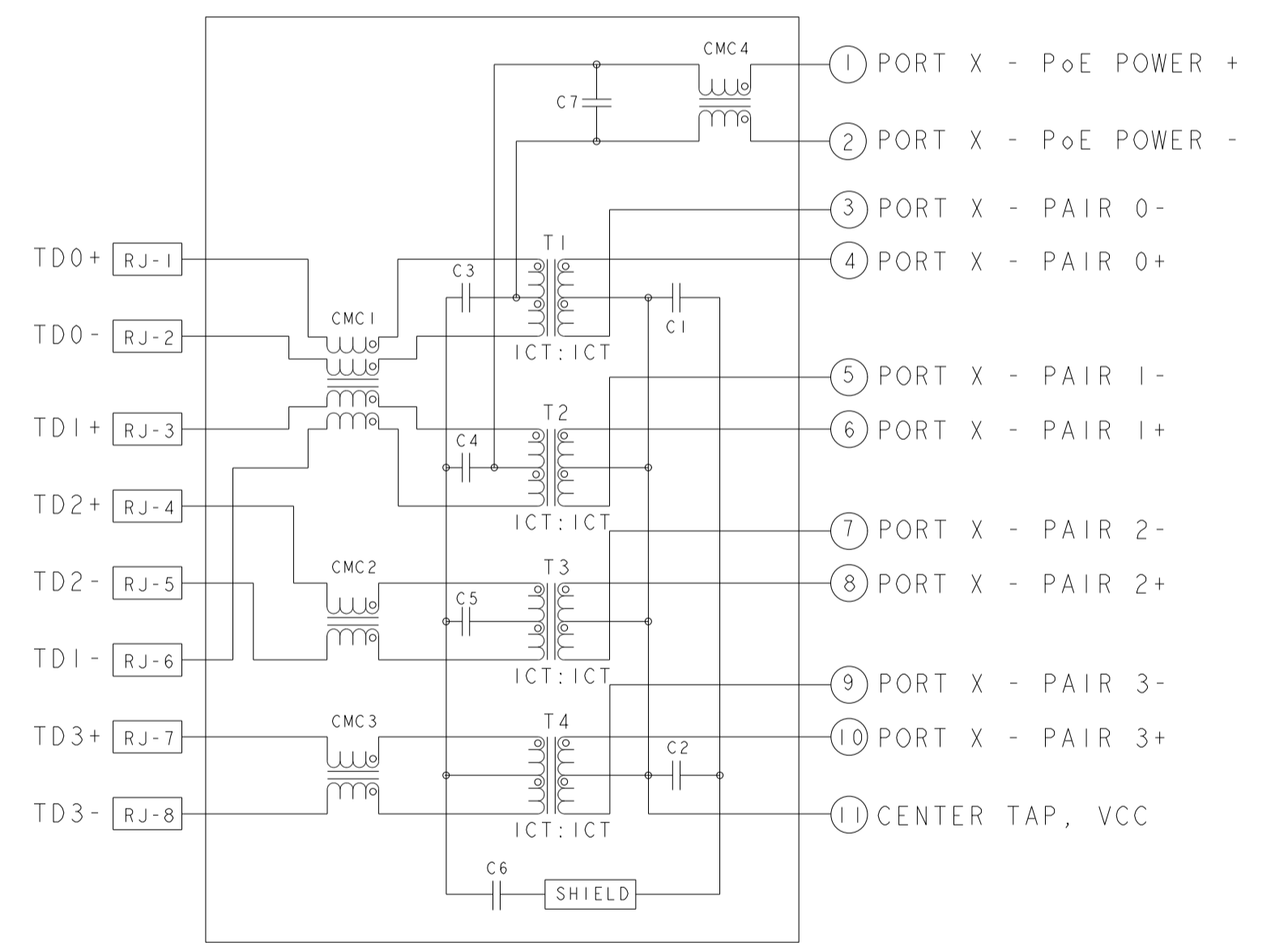
VIEW SHOWN ASSEMBLED TO PCB AND PANEL



SEE DETAIL H

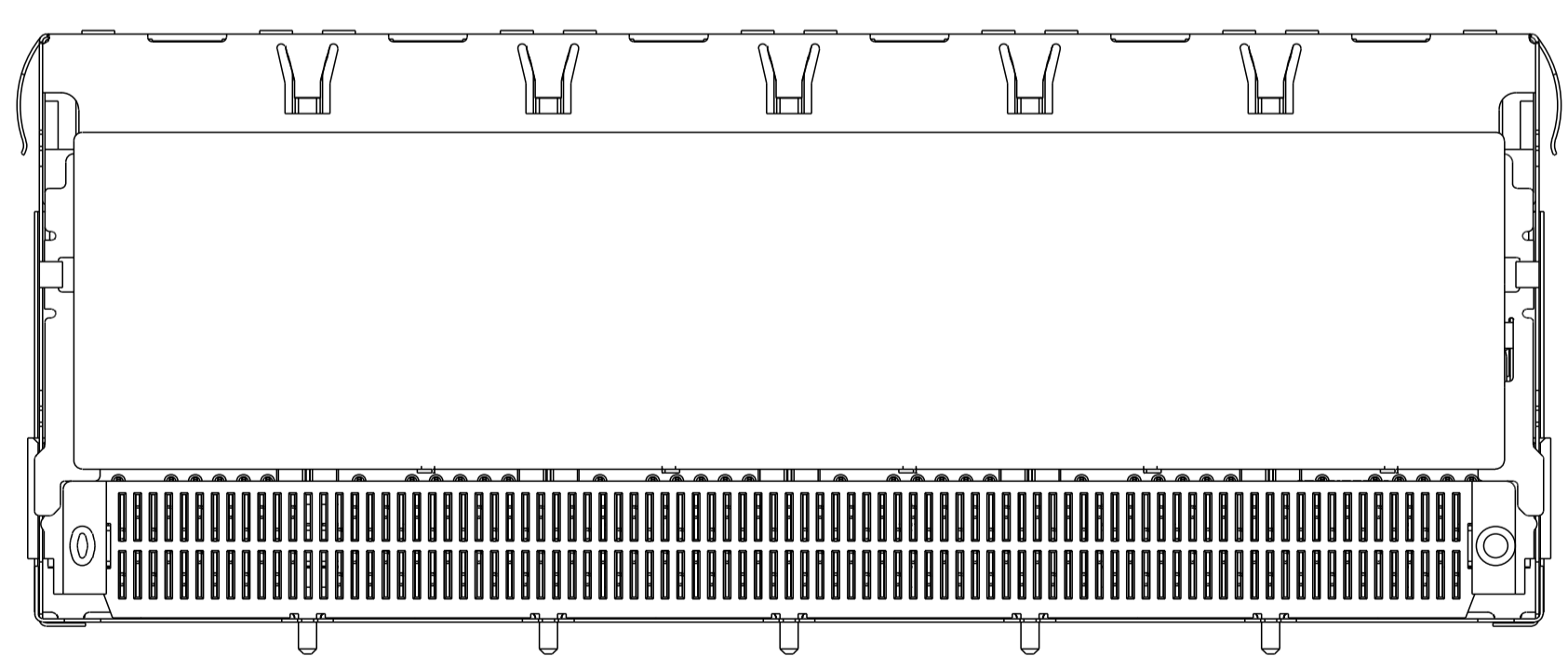


S6VG22B GIGABIT POE CIRCUIT
TOP AND BOTTOM PORTS



C1-C2: 470pF, 100V, ±10%, X7R
C3-C5: 0.01uF, 500VDC(0805), ±10%
C6: 1000pF, 4KVDC(1808), ±10%
C7: 68nF, 100V, ±10%

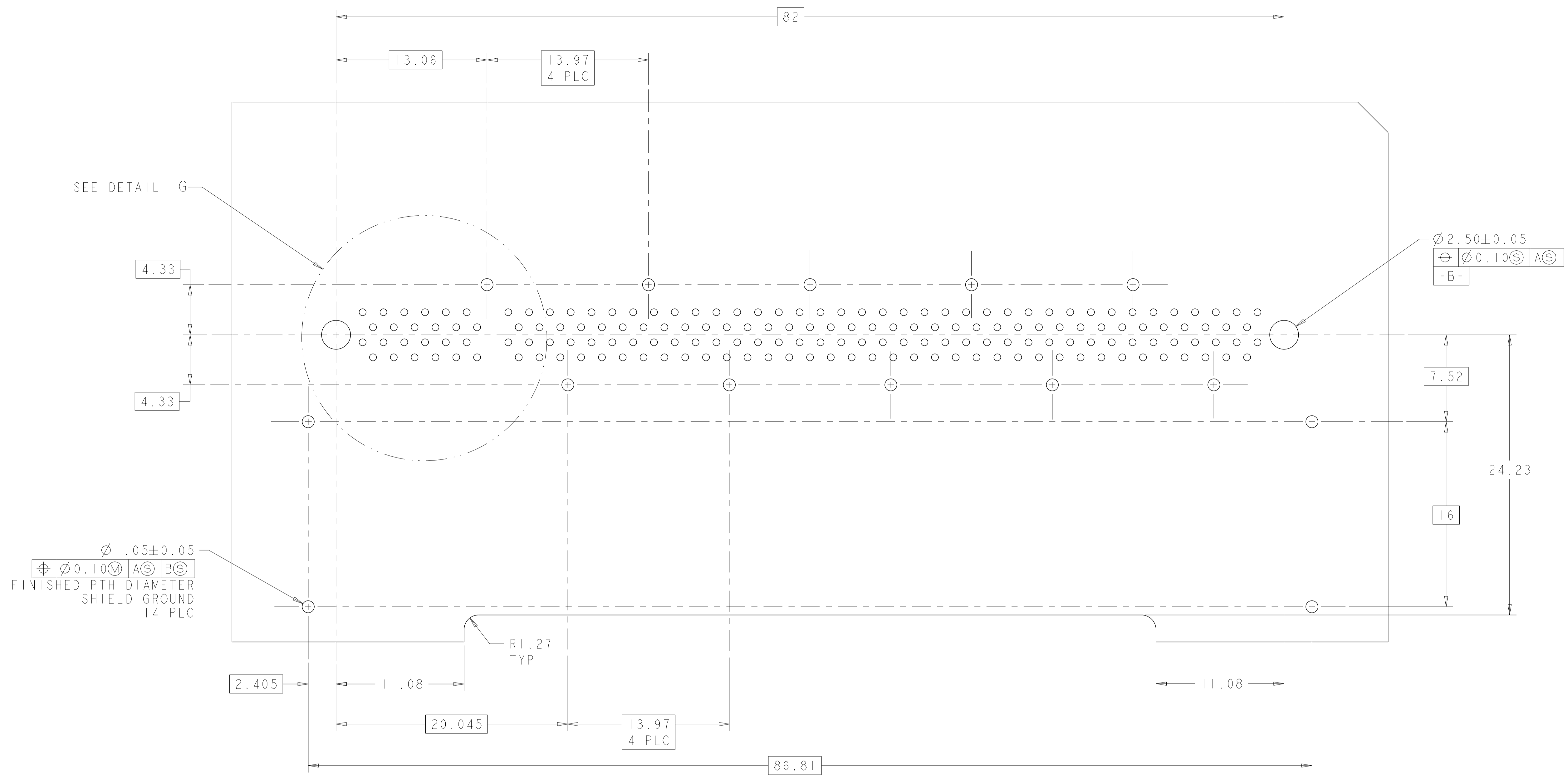
X = PORT NUMBER
REFER TO THE TABLE ON SHEET 4
FOR PIN ASSIGNMENT DETAILS



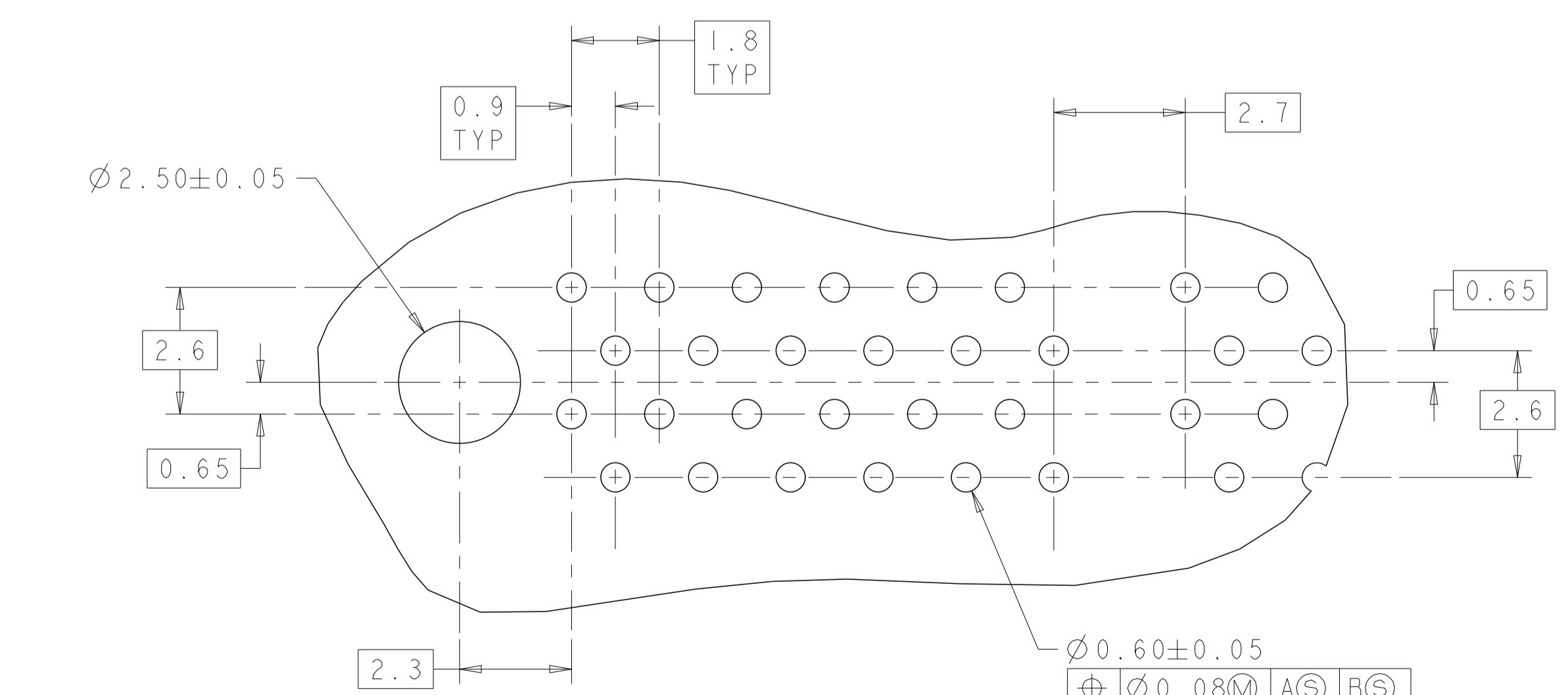
- MATERIALS:**
HOUSING: BLACK THERMOPLASTIC, 94V-0.
SHIELD: COPPER ALLOY WITH TIN PLATE.
CONTACTS, RJ45: PHOSPHOR BRONZE WITH 1.27µm MIN GOLD AT MATING INTERFACE OVER 2.54µm NICKEL UNDERPLATE.
CONTACTS, MOTHERBOARD HEADER: 0.125µm TIN PLATE OVER 2.54µm NICKEL.
- MAGNETICS:**
-APPLICATION: 10/100/1000 BASE-T, PoE
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
-OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
-DIELECTRONIC (ISOLATION VOLTAGE): 1500 VAC, 60 SECOND, 1 mA MAX PER PORT, 540 uA TYPICAL.
-ALL FOUR PAIRS BI-DIRECTIONAL
-POE CURRENT: 350mADC MAX
-PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 1.3dB 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: 33-20LOG(f/50)dB MIN FROM 1MHz TO 100MHz
COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 1MHz TO 100MHz
3. LED IS DRIVEN WITH CURRENT AT APPROX 20 mA.
DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. AT IF=20mA.
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF=20mA.
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
4. ALL DIMENSIONS NOMINAL UNLESS OTHERWISE STATED.
5. RECOMMENDED MINIMUM MOTHERBOARD PCB THICKNESS: 1.59 mm.
6. RJ45 PORT CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
7. TRP LOGO, AGENCY LOGO, PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN TO BE MARKED IN APPROXIMATE LOCATION SHOWN. DATE CODE "YY" IS THE YEAR, "WW" IS THE WEEK, "D" IS THE DAY OF WEEK, WITH SUNDAY="1".
8. THIS PART IS DESIGNED TO BE IN COMPLIANCE WITH IEEE 802.3af, DRAFT 4.e DATED APRIL 10, 2003, AS A POE DEVICE, CONFIGURED PER THE ALTERNATE A MDI-X PINOUT.
9. OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

9	OBsolete	-	-	PRESS FIT	1658825-2
		YEL/GRN	YEL/GRN	PRESS FIT	1658825-1
		LED #2	LED #1	DESCRIPTION	PART NUMBER

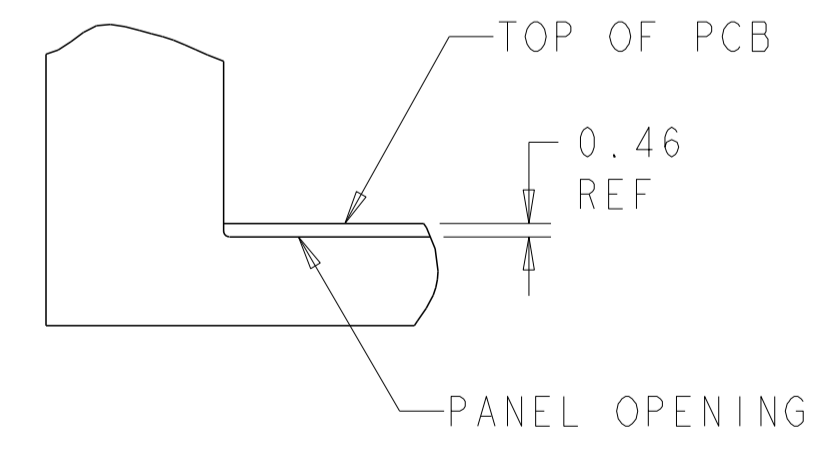
THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 03OCT03		TRP connector	
DIMENSIONS: mm		APVD: 03OCT03		Dongguan China	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC		2X6 MAG45 (TM), GIGABIT S6VG22B	
0 PLC ±		108-2178	CIRCUIT_ENABLED POE -		
1 PLC ±		APPLICATION SPEC	SIZE CAGE CODE DRAWING NO		
2 PLC ±0.25		114-13147	RESTRICTED TO		
3 PLC ±		WEIGHT	A1		
4 PLC ±		CUSTOMER DRAWING	SCALE 5:2 SHEET 1 OF 5 REV F		



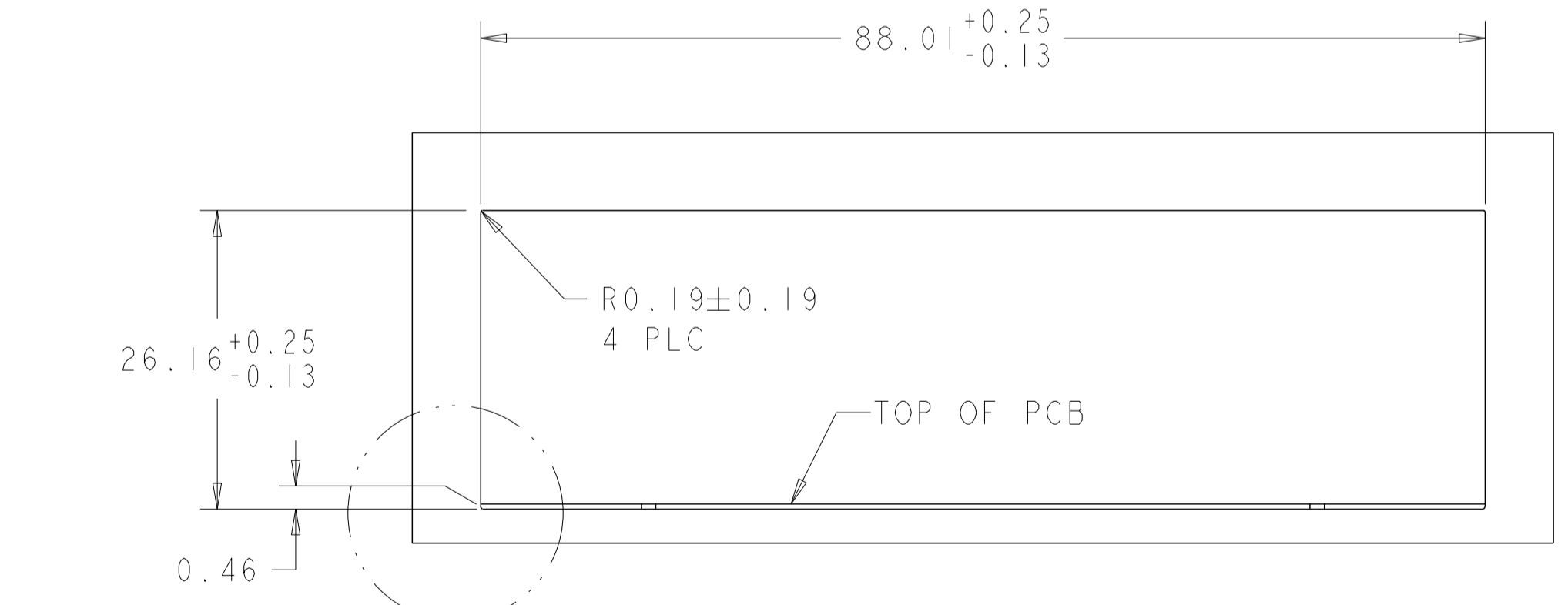
SCALE 5:1



DETAIL G
SCALE 10:1

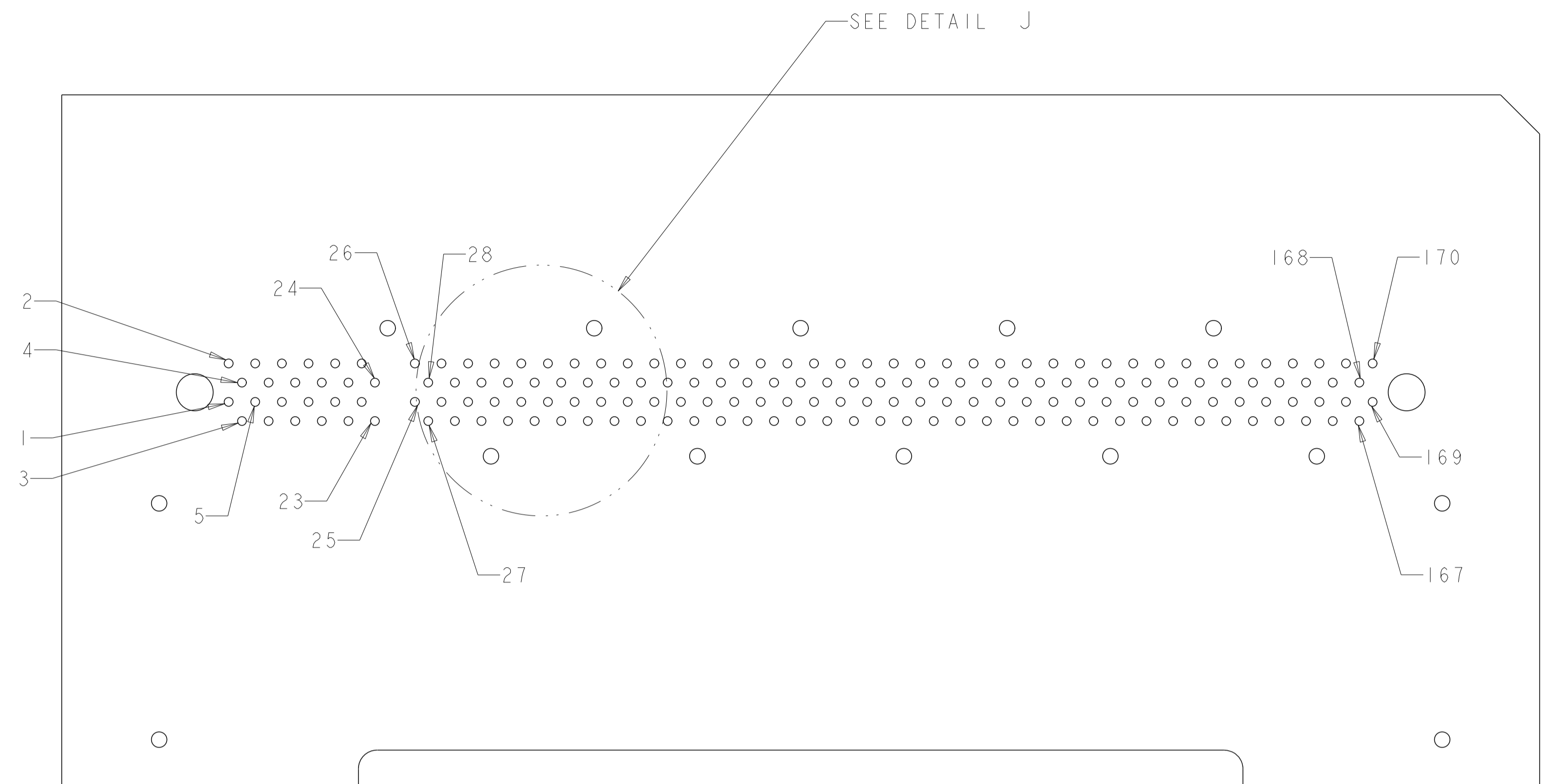


DETAIL K
SCALE 4:1

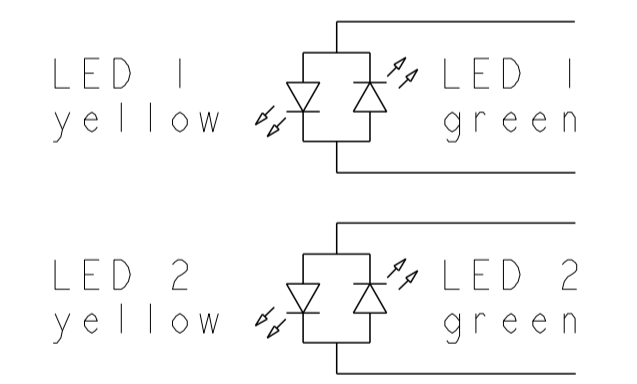
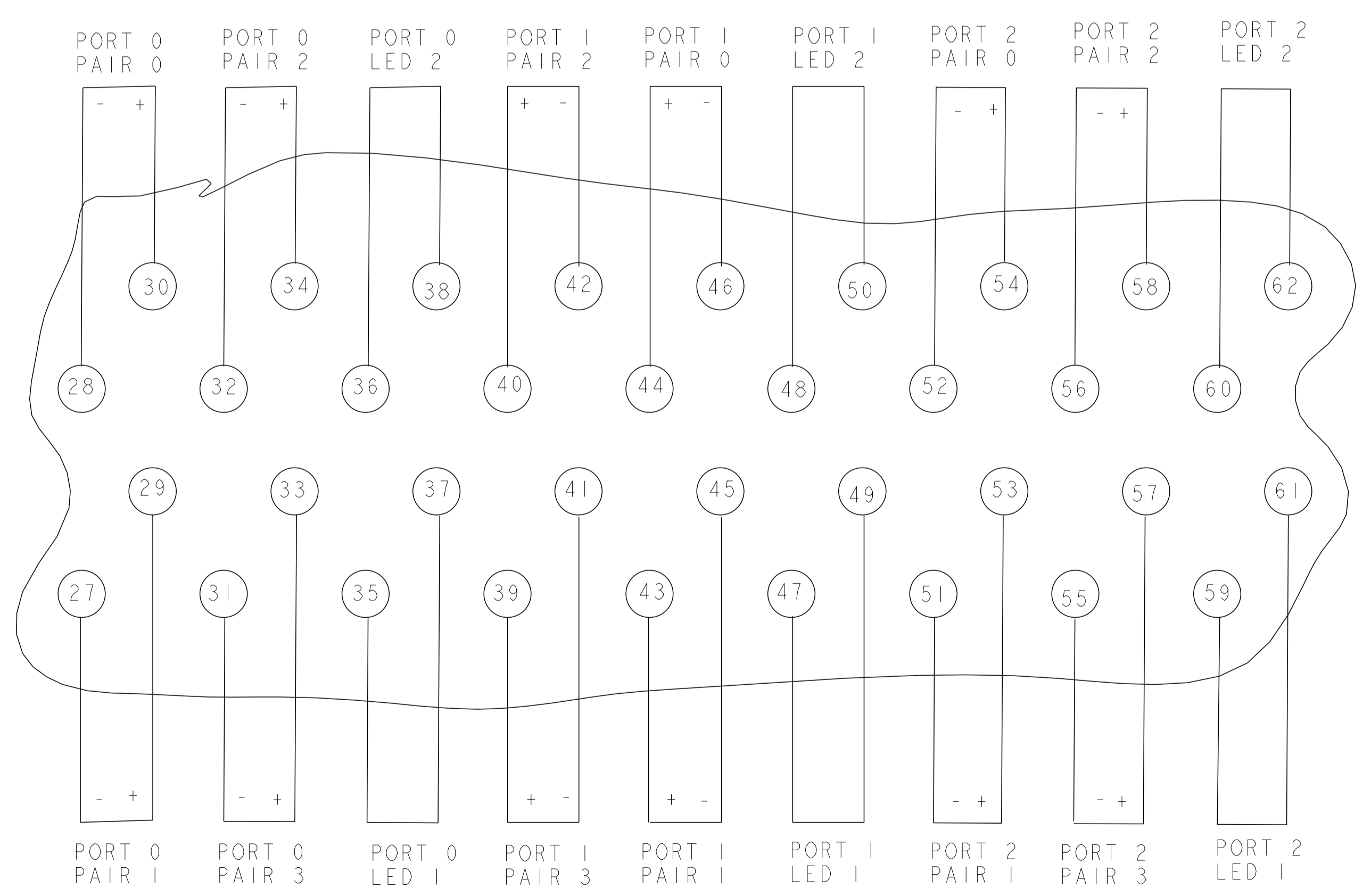


SEE DETAIL K
SUGGESTED PANEL CUTOUT DIMENSIONS
SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: M. E. SHIRK 03OCT03		TRP connector
DRAWN BY: KEITH MURR 03OCT03		CHK: KEITH MURR 03OCT03		Dongguan China
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:	NAME: 2X6 MAG45 (TM), GIGABIT S6VG22B	
0 PLC ±	1 PLC ±	2 PLC ±0.25	APPLICATION SPEC: CIRCUIT_ENABLED POE -	
3 PLC ±	4 PLC ±	ANGLES ±	SIZE: A1	
MATERIAL:	FINISH:	WEIGHT:	CAGE CODE: 1658825	
CUSTOMER DRAWING		SCALE: 5:2	SHEET: 2	OF: 5
		REV: F		



SCALE 4:1




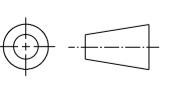
TYPICAL PATTERN FOR:

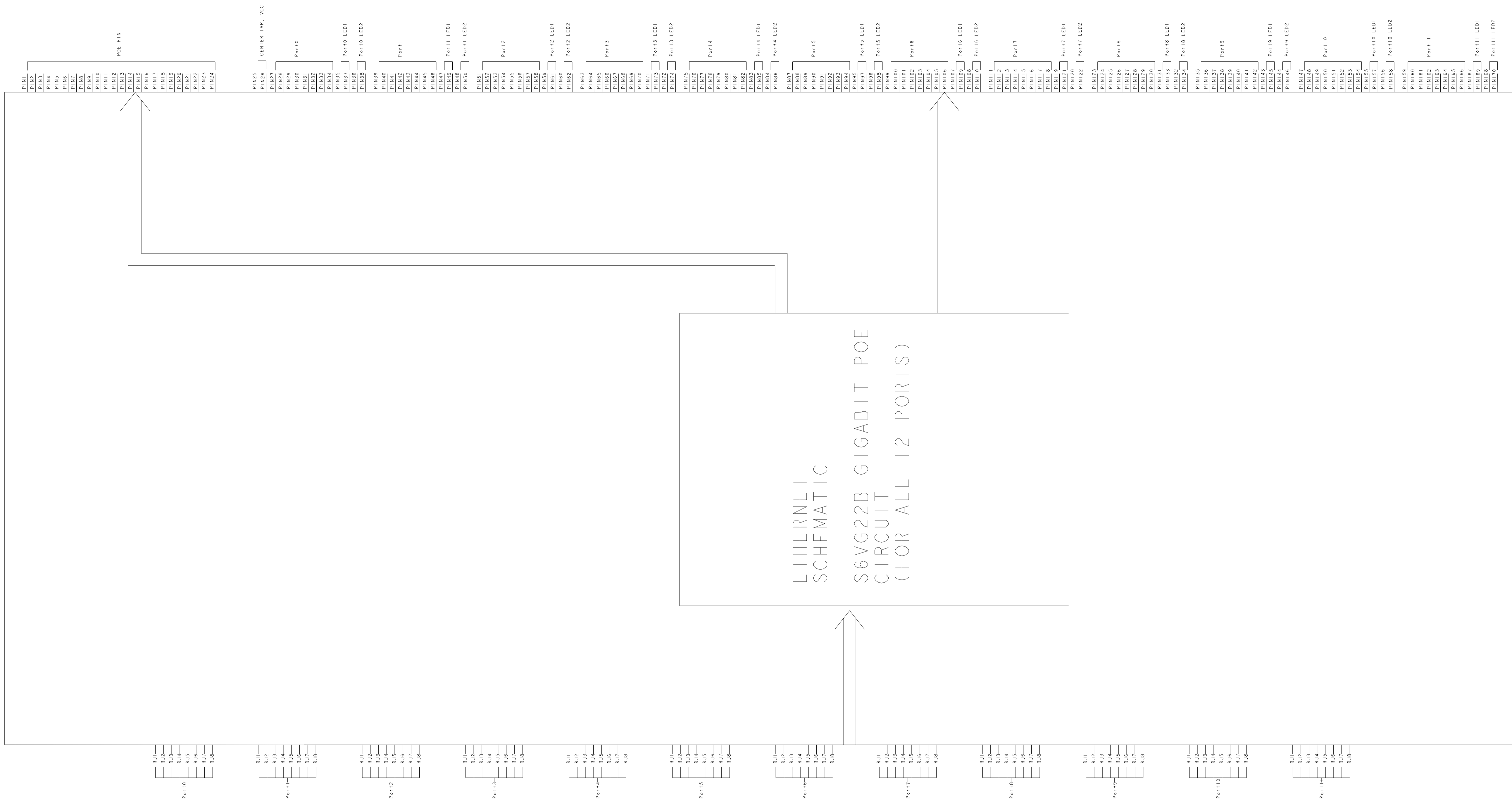
- PORT 0, 1
- PORT 2, 3
- PORT 4, 5
- PORT 6, 7
- PORT 8, 9
- PORT 10, 11

DETAIL J
 SCALE 20:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN W. F. SHIRK 030CT03	TRP connector Dongguan China
DIMENSIONS: mm		CHK KEITH MURR 030CT03	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±3 FINISH		PRODUCT SPEC 108-2178 APPLICATION SPEC 114-13147 WEIGHT CUSTOMER DRAWING	
MATERIAL		APVD KEITH MURR 030CT03	NAME 2X6 MAG45 (TM), GIGABIT S6VG22B CIRCUIT_ENABLED POE -
		SIZE A1	RESTRICTED TO C=1658825 SCALE 5:2 SHEET 3 OF 5 REV F

PIN ID	1658825-1	1658825-2	PIN ID	1658825-1	1658825-2	PIN ID	1658825-1	1658825-2
1	PORT 10, PoE POWER, -	PORT 10, PoE POWER, -	58	PORT 2 - PAIR 2 +	PORT 2 - PAIR 2 +	115	PORT 7 - PAIR 1 +	PORT 7 - PAIR 1 +
2	PORT 11, PoE POWER, -	PORT 11, PoE POWER, -	59	PORT 2 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	116	PORT 7 - PAIR 0 +	PORT 7 - PAIR 0 +
3	PORT 10, PoE POWER, +	PORT 10, PoE POWER, +	60	PORT 2 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	117	PORT 7 - PAIR 1 -	PORT 7 - PAIR 1 -
4	PORT 11, PoE POWER, +	PORT 11, PoE POWER, +	61	PORT 2 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	118	PORT 7 - PAIR 0 -	PORT 7 - PAIR 0 -
5	PORT 8, PoE POWER, -	PORT 8, PoE POWER, -	62	PORT 2 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	119	PORT 7 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION
6	PORT 9, PoE POWER, -	PORT 9, PoE POWER, -	63	PORT 3 - PAIR 3 +	PORT 3 - PAIR 3 +	120	PORT 7 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION
7	PORT 8, PoE POWER, +	PORT 8, PoE POWER, +	64	PORT 3 - PAIR 2 +	PORT 3 - PAIR 2 +	121	PORT 7 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION
8	PORT 9, PoE POWER, +	PORT 9, PoE POWER, +	65	PORT 3 - PAIR 3 -	PORT 3 - PAIR 3 -	122	PORT 7 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION
9	PORT 6, PoE POWER, -	PORT 6, PoE POWER, -	66	PORT 3 - PAIR 2 -	PORT 3 - PAIR 2 -	123	PORT 8 - PAIR 1 -	PORT 8 - PAIR 1 -
10	PORT 7, PoE POWER, -	PORT 7, PoE POWER, -	67	PORT 3 - PAIR 1 +	PORT 3 - PAIR 1 +	124	PORT 8 - PAIR 0 -	PORT 8 - PAIR 0 -
11	PORT 6, PoE POWER, +	PORT 6, PoE POWER, +	68	PORT 3 - PAIR 0 +	PORT 3 - PAIR 0 +	125	PORT 8 - PAIR 1 +	PORT 8 - PAIR 1 +
12	PORT 7, PoE POWER, +	PORT 7, PoE POWER, +	69	PORT 3 - PAIR 1 -	PORT 3 - PAIR 1 -	126	PORT 8 - PAIR 0 +	PORT 8 - PAIR 0 +
13	PORT 4, PoE POWER, -	PORT 4, PoE POWER, -	70	PORT 3 - PAIR 0 -	PORT 3 - PAIR 0 -	127	PORT 8 - PAIR 3 -	PORT 8 - PAIR 3 -
14	PORT 5, PoE POWER, -	PORT 5, PoE POWER, -	71	PORT 3 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	128	PORT 8 - PAIR 2 -	PORT 8 - PAIR 2 -
15	PORT 4, PoE POWER, +	PORT 4, PoE POWER, +	72	PORT 3 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	129	PORT 8 - PAIR 3 +	PORT 8 - PAIR 3 +
16	PORT 5, PoE POWER, +	PORT 5, PoE POWER, +	73	PORT 3 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	130	PORT 8 - PAIR 2 +	PORT 8 - PAIR 2 +
17	PORT 2, PoE POWER, -	PORT 2, PoE POWER, -	74	PORT 3 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	131	PORT 8 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION
18	PORT 3, PoE POWER, -	PORT 3, PoE POWER, -	75	PORT 4 - PAIR 1 -	PORT 4 - PAIR 1 -	132	PORT 8 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION
19	PORT 2, PoE POWER, +	PORT 2, PoE POWER, +	76	PORT 4 - PAIR 0 -	PORT 4 - PAIR 0 -	133	PORT 8 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION
20	PORT 3, PoE POWER, +	PORT 3, PoE POWER, +	77	PORT 4 - PAIR 1 +	PORT 4 - PAIR 1 +	134	PORT 8 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION
21	PORT 0, PoE POWER, -	PORT 0, PoE POWER, -	78	PORT 4 - PAIR 0 +	PORT 4 - PAIR 0 +	135	PORT 9 - PAIR 3 +	PORT 9 - PAIR 3 +
22	PORT 1, PoE POWER, -	PORT 1, PoE POWER, -	79	PORT 4 - PAIR 3 -	PORT 4 - PAIR 3 -	136	PORT 9 - PAIR 2 +	PORT 9 - PAIR 2 +
23	PORT 0, PoE POWER, +	PORT 0, PoE POWER, +	80	PORT 4 - PAIR 2 -	PORT 4 - PAIR 2 -	137	PORT 9 - PAIR 3 -	PORT 9 - PAIR 3 -
24	PORT 1, PoE POWER, +	PORT 1, PoE POWER, +	81	PORT 4 - PAIR 3 +	PORT 4 - PAIR 3 +	138	PORT 9 - PAIR 2 -	PORT 9 - PAIR 2 -
25	CENTER TAP VCC, PORTS 6-11	CENTER TAP VCC, PORTS 6-11	82	PORT 4 - PAIR 2 +	PORT 4 - PAIR 2 +	139	PORT 9 - PAIR 1 +	PORT 9 - PAIR 1 +
26	CENTER TAP VCC, PORTS 0-5	CENTER TAP VCC, PORTS 0-5	83	PORT 4 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	140	PORT 9 - PAIR 0 +	PORT 9 - PAIR 0 +
27	PORT 0 - PAIR 1 -	PORT 0 - PAIR 1 -	84	PORT 4 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	141	PORT 9 - PAIR 1 -	PORT 9 - PAIR 1 -
28	PORT 0 - PAIR 0 -	PORT 0 - PAIR 0 -	85	PORT 4 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	142	PORT 9 - PAIR 0 -	PORT 9 - PAIR 0 -
29	PORT 0 - PAIR 1 +	PORT 0 - PAIR 1 +	86	PORT 4 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	143	PORT 9 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION
30	PORT 0 - PAIR 0 +	PORT 0 - PAIR 0 +	87	PORT 5 - PAIR 3 +	PORT 5 - PAIR 3 +	144	PORT 9 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION
31	PORT 0 - PAIR 3 -	PORT 0 - PAIR 3 -	88	PORT 5 - PAIR 2 +	PORT 5 - PAIR 2 +	145	PORT 9 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION
32	PORT 0 - PAIR 2 -	PORT 0 - PAIR 2 -	89	PORT 5 - PAIR 3 -	PORT 5 - PAIR 3 -	146	PORT 9 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION
33	PORT 0 - PAIR 3 +	PORT 0 - PAIR 3 +	90	PORT 5 - PAIR 2 -	PORT 5 - PAIR 2 -	147	PORT 10 - PAIR 1 -	PORT 10 - PAIR 1 -
34	PORT 0 - PAIR 2 +	PORT 0 - PAIR 2 +	91	PORT 5 - PAIR 1 +	PORT 5 - PAIR 1 +	148	PORT 10 - PAIR 0 -	PORT 10 - PAIR 0 -
35	PORT 0 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	92	PORT 5 - PAIR 0 +	PORT 5 - PAIR 0 +	149	PORT 10 - PAIR 1 +	PORT 10 - PAIR 1 +
36	PORT 0 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	93	PORT 5 - PAIR 1 -	PORT 5 - PAIR 1 -	150	PORT 10 - PAIR 0 +	PORT 10 - PAIR 0 +
37	PORT 0 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	94	PORT 5 - PAIR 0 -	PORT 5 - PAIR 0 -	151	PORT 10 - PAIR 3 -	PORT 10 - PAIR 3 -
38	PORT 0 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	95	PORT 5 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	152	PORT 10 - PAIR 2 -	PORT 10 - PAIR 2 -
39	PORT 1 - PAIR 3 +	PORT 1 - PAIR 3 +	96	PORT 5 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	153	PORT 10 - PAIR 3 +	PORT 10 - PAIR 3 +
40	PORT 1 - PAIR 2 +	PORT 1 - PAIR 2 +	97	PORT 5 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	154	PORT 10 - PAIR 2 +	PORT 10 - PAIR 2 +
41	PORT 1 - PAIR 3 -	PORT 1 - PAIR 3 -	98	PORT 5 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	155	PORT 10 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION
42	PORT 1 - PAIR 2 -	PORT 1 - PAIR 2 -	99	PORT 6 - PAIR 1 -	PORT 6 - PAIR 1 -	156	PORT 10 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION
43	PORT 1 - PAIR 1 +	PORT 1 - PAIR 1 +	100	PORT 6 - PAIR 0 -	PORT 6 - PAIR 0 -	157	PORT 10 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION
44	PORT 1 - PAIR 0 +	PORT 1 - PAIR 0 +	101	PORT 6 - PAIR 1 +	PORT 6 - PAIR 1 +	158	PORT 10 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION
45	PORT 1 - PAIR 1 -	PORT 1 - PAIR 1 -	102	PORT 6 - PAIR 0 +	PORT 6 - PAIR 0 +	159	PORT 11 - PAIR 3 +	PORT 11 - PAIR 3 +
46	PORT 1 - PAIR 0 -	PORT 1 - PAIR 0 -	103	PORT 6 - PAIR 3 -	PORT 6 - PAIR 3 -	160	PORT 11 - PAIR 2 +	PORT 11 - PAIR 2 +
47	PORT 1 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	104	PORT 6 - PAIR 2 -	PORT 6 - PAIR 2 -	161	PORT 11 - PAIR 3 -	PORT 11 - PAIR 3 -
48	PORT 1 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	105	PORT 6 - PAIR 3 +	PORT 6 - PAIR 3 +	162	PORT 11 - PAIR 2 -	PORT 11 - PAIR 2 -
49	PORT 1 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	106	PORT 6 - PAIR 2 +	PORT 6 - PAIR 2 +	163	PORT 11 - PAIR 1 +	PORT 11 - PAIR 1 +
50	PORT 1 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	107	PORT 6 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	164	PORT 11 - PAIR 0 +	PORT 11 - PAIR 0 +
51	PORT 2 - PAIR 1 -	PORT 2 - PAIR 1 -	108	PORT 6 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	165	PORT 11 - PAIR 1 -	PORT 11 - PAIR 1 -
52	PORT 2 - PAIR 0 -	PORT 2 - PAIR 0 -	109	PORT 6 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	166	PORT 11 - PAIR 0 -	PORT 11 - PAIR 0 -
53	PORT 2 - PAIR 1 +	PORT 2 - PAIR 1 +	110	PORT 6 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	167	PORT 11 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION
54	PORT 2 - PAIR 0 +	PORT 2 - PAIR 0 +	111	PORT 7 - PAIR 3 +	PORT 7 - PAIR 3 +	168	PORT 11 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION
55	PORT 2 - PAIR 3 -	PORT 2 - PAIR 3 -	112	PORT 7 - PAIR 2 +	PORT 7 - PAIR 2 +	169	PORT 11 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION
56	PORT 2 - PAIR 2 -	PORT 2 - PAIR 2 -	113	PORT 7 - PAIR 3 -	PORT 7 - PAIR 3 -	170	PORT 11 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION
57	PORT 2 - PAIR 3 +	PORT 2 - PAIR 3 +	114	PORT 7 - PAIR 2 -	PORT 7 - PAIR 2 -			

THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: M. E. SHIRK 030CT03	 TRP connector Dongguan China
DIMENSIONS: min		CHK: KEITH MURR 030CT03	
		APVD: KEITH MURR 030CT03	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	
0 PLC ±		NAME: 2X6 MAG45 (TM), GIGABIT S6VG22B	
1 PLC ±		APPLICATION SPEC	
2 PLC ±0.25		SIZE: A1	
3 PLC ±		CAGE CODE: 1658825	
4 PLC ±		DRAWING NO: 114-13147	
ANGLES ±		RESTRICTED TO	
FINISH ±3		CUSTOMER DRAWING	
		SCALE: 5:2 SHEET 4 OF 5 REV F	



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG M. E. SHIRK 03OCT03 CHK KEITH MURR 03OCT03 APVD KEITH MURR 03OCT03	 TRP connector Dongguan China
DIMENSIONS: mm 		PRODUCT SPEC 108-2178 APPLICATION SPEC 114-13147	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±3		NAME 2X6 MAG45 (TM), GIGABIT S6VG22B SIZE CAGE CODE DRAWING NO. 114-13147 MATERIAL FINISH	RESTRICTED TO A1 ©=1658825
MATERIAL		CUSTOMER DRAWING	SCALE 5:2 SHEET 5 OF 5 REV F