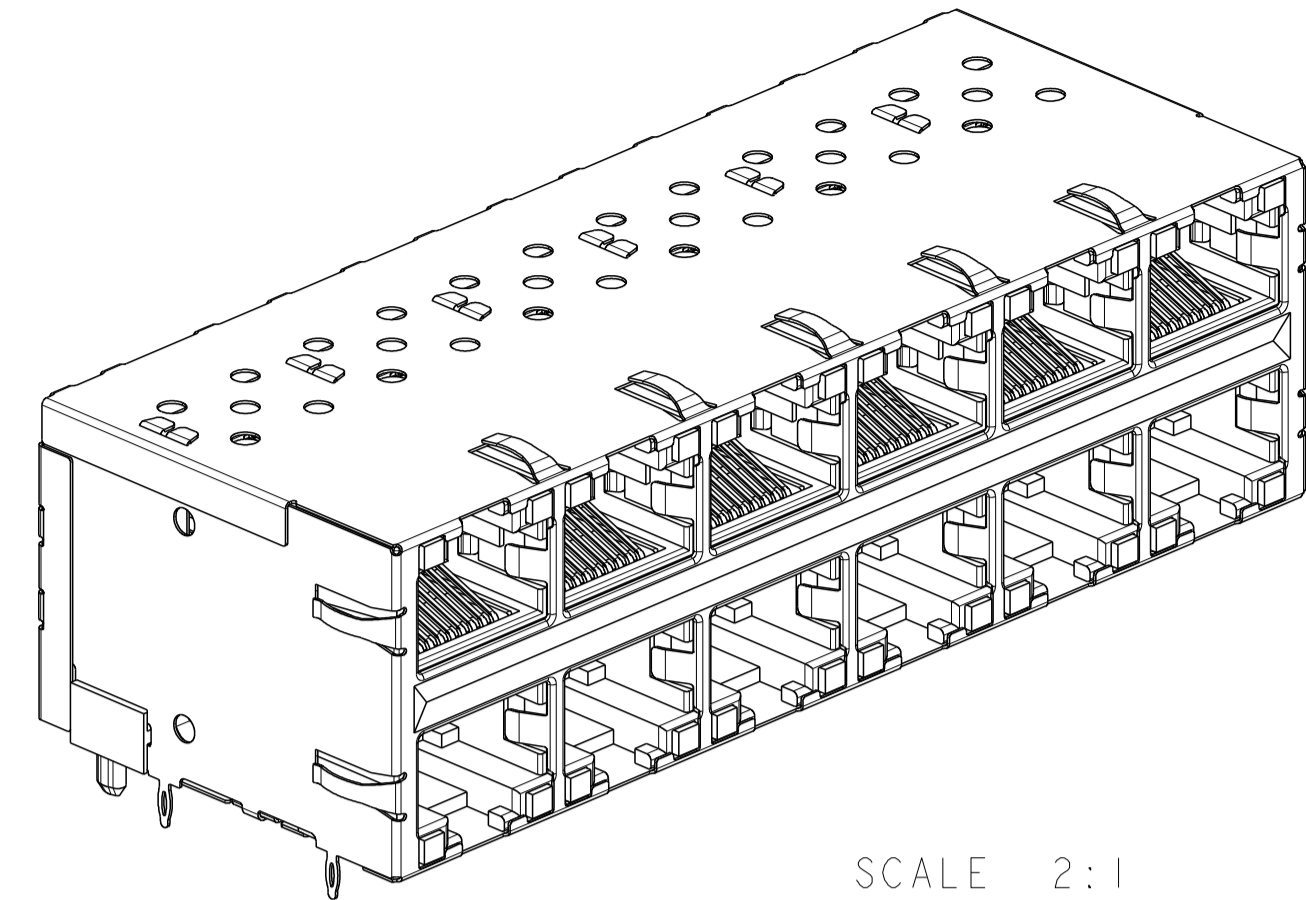
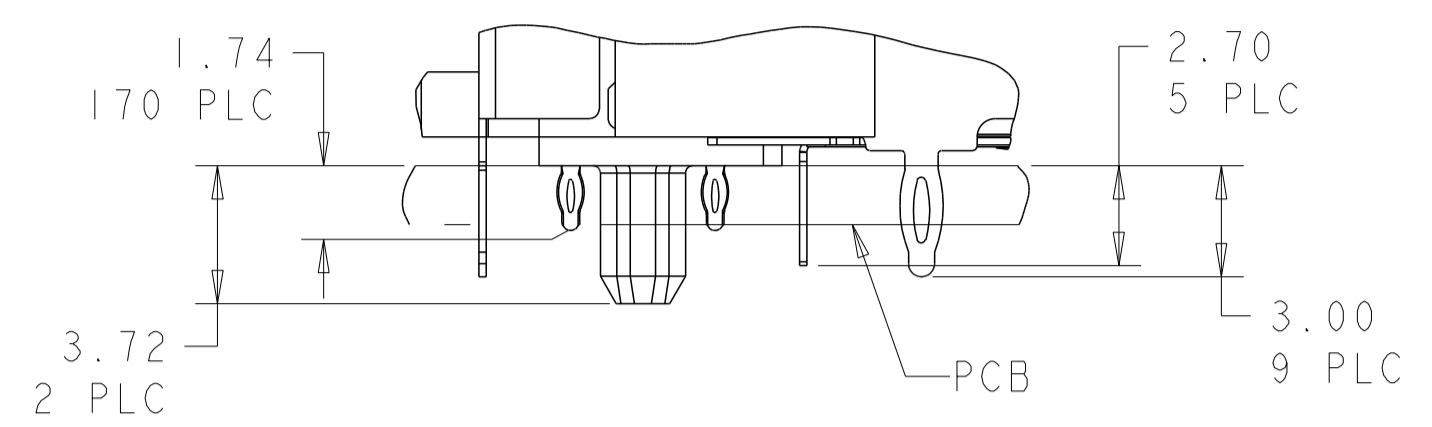
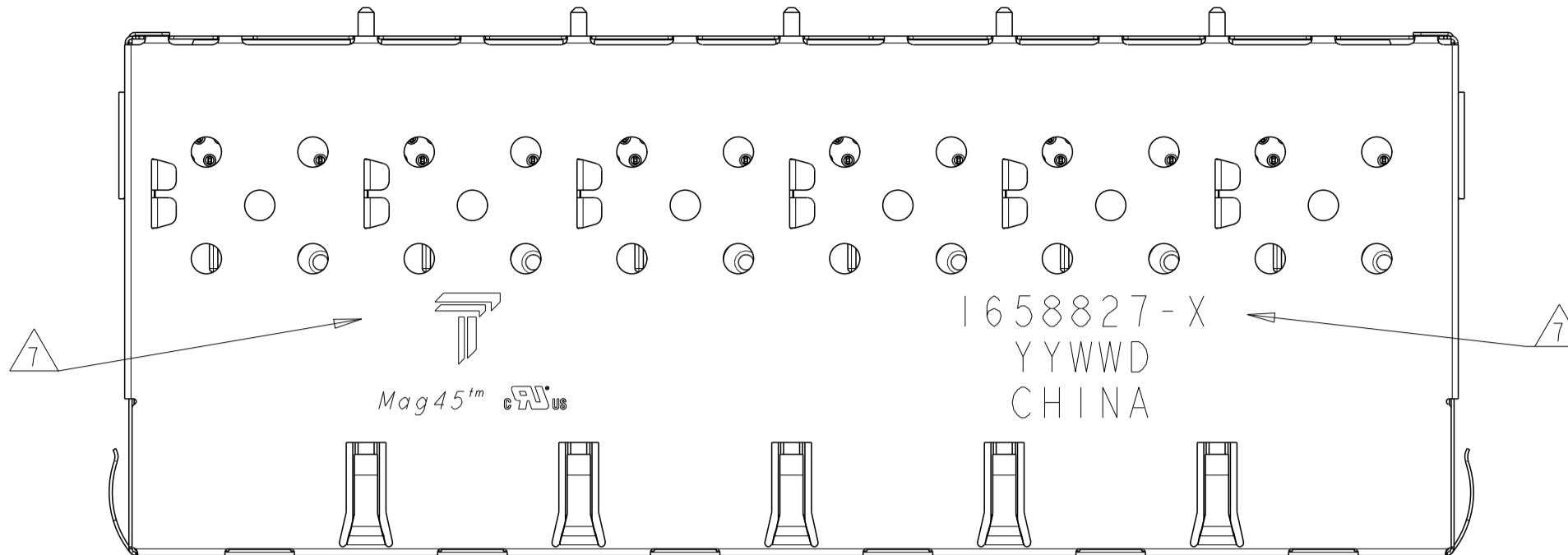


REVISIONS				
P	LTR	DESCRIPTION	DATE	OWN APVD
G		LOGO CHANGE	03APR2013	GZ HZ

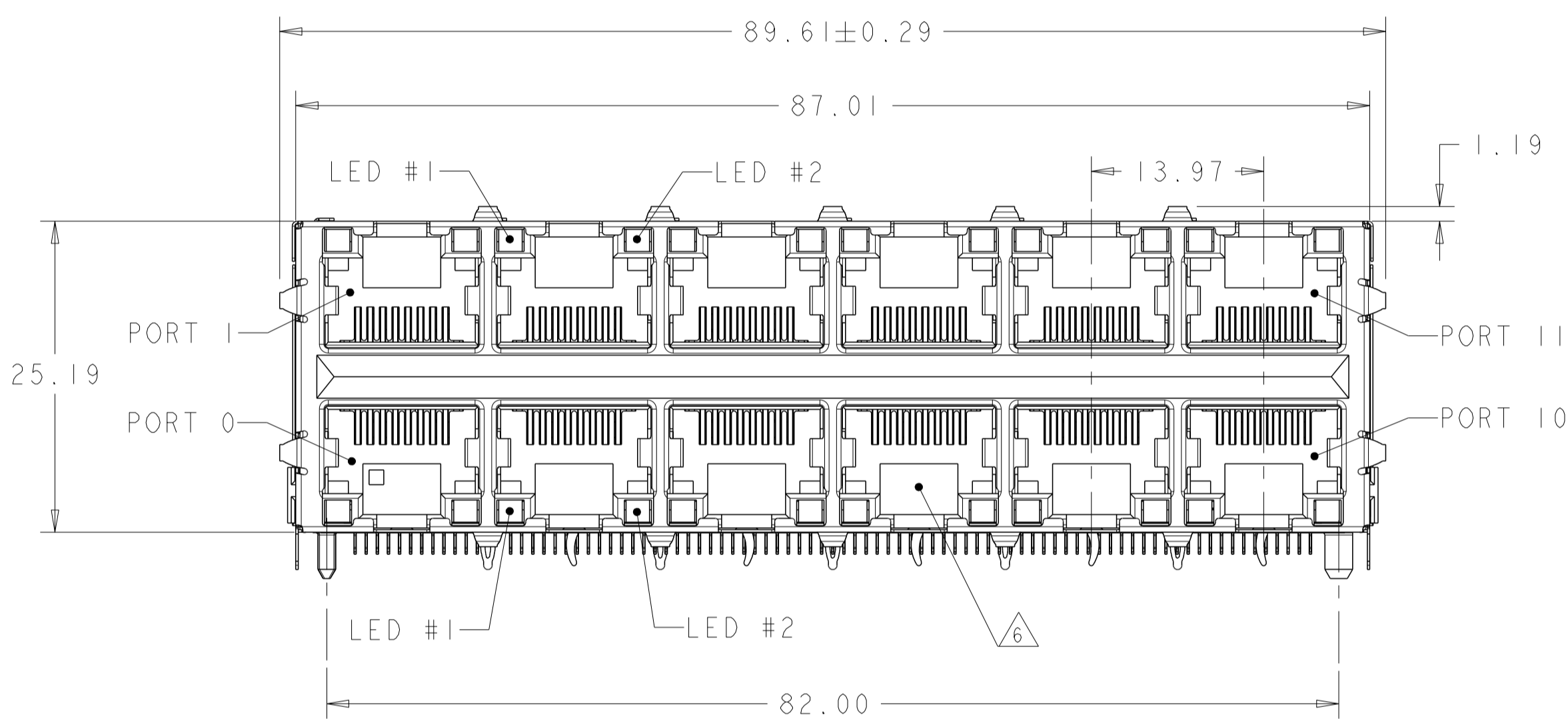
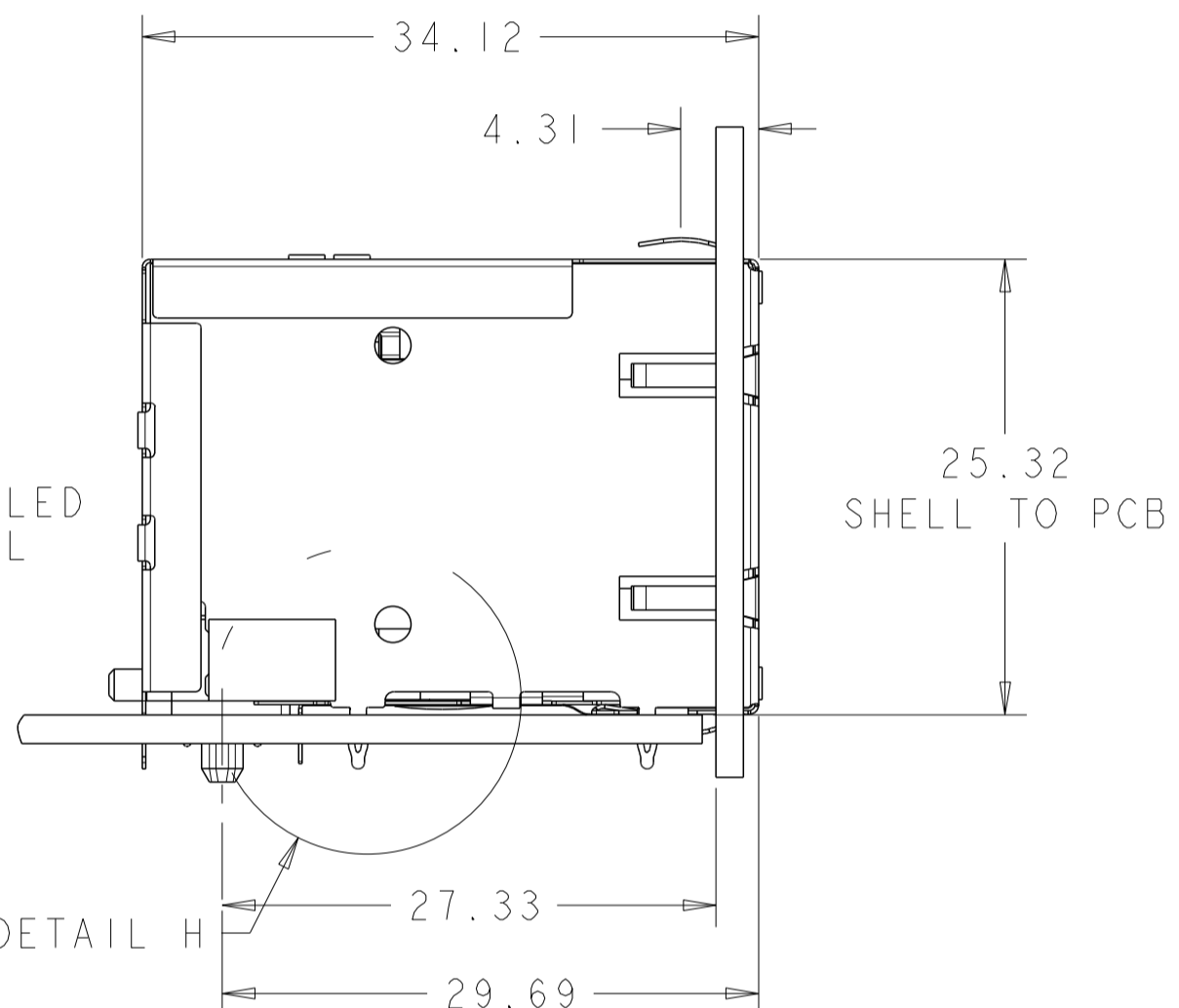


SCALE 2:1

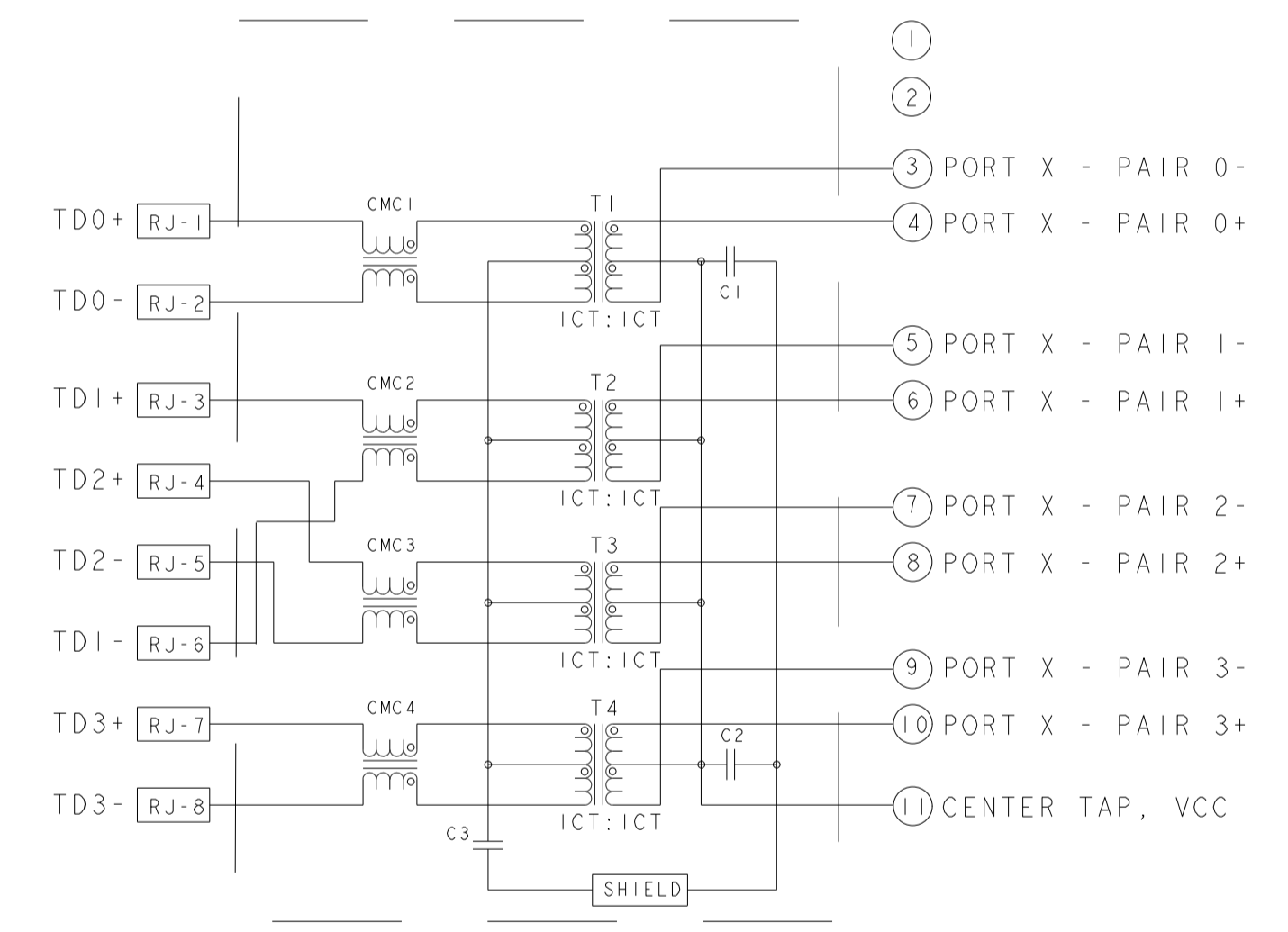


DETAIL H  
PRESS FIT  
SCALE 5:1

VIEW SHOWN ASSEMBLED TO PCB AND PANEL



S6G14 GIGABIT CIRCUIT  
TOP AND BOTTOM PORTS



C1-C2=470pF, 100V, ±10%, X7R DECOUPLING CAP.  
C3=1000pF, 2kV, ±5%, CAPACITOR

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

1. 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.

2. MAGNETICS:  
-APPLICATION: 10/100/1000 BASE-T  
-IMPEDANCE: 100 OHMS  
-TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS  
-OPEN CIRCUIT INDUCTANCE (OCL): 350µH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS  
-DIELECTRIC ISOLATION VOLTAGE: 2250 VDC( 1mA CUTOFF CURRENT) 60 SECONDS DURATION.  
-ALL FOUR PAIRS BI-DIRECTIONAL  
-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

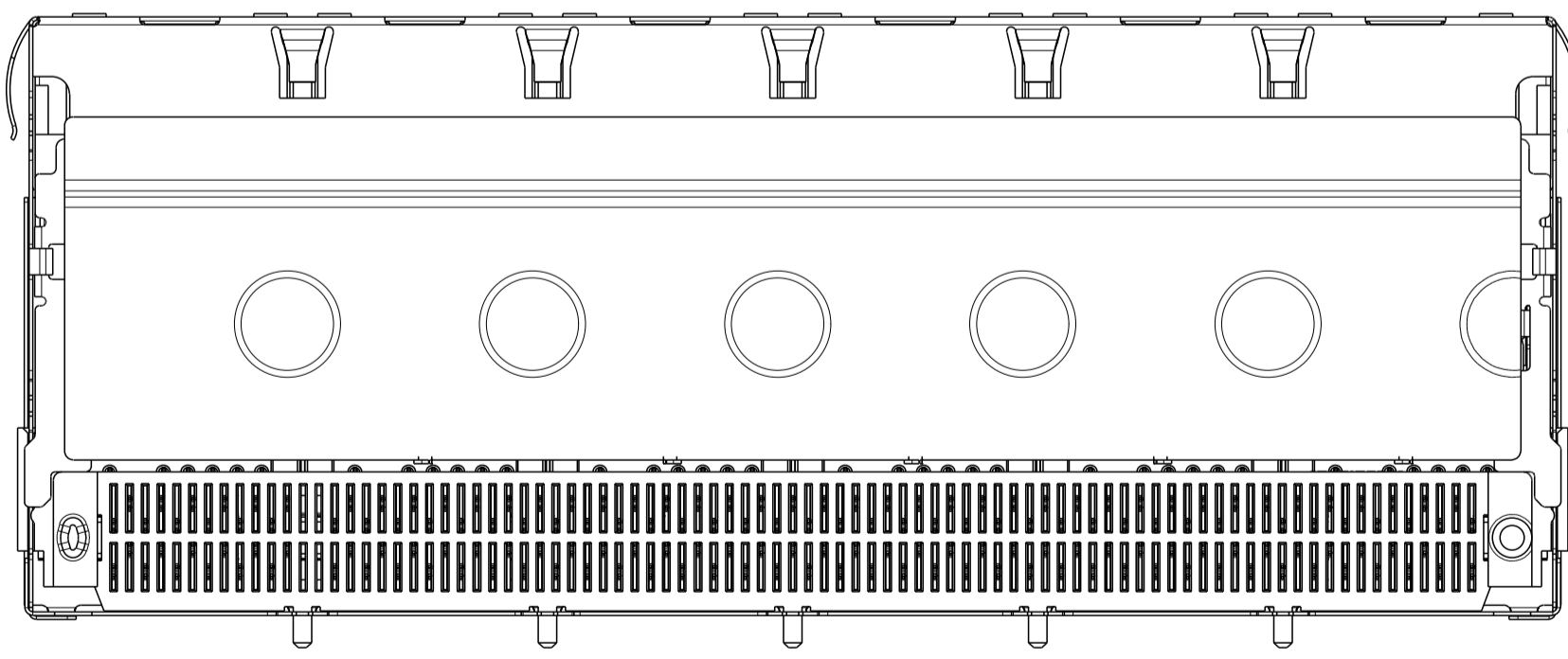
3. LED IS DRIVEN WITH CURRENT AT APPROX 20 mA.  
DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. AT IF=20mA.  
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA  
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF=20mA.  
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA

4. ALL DIMENSIONS NOMINAL UNLESS OTHERWISE STATED.

5. RECOMMENDED MOTHERBOARD PCB THICKNESS: 1.59 mm.

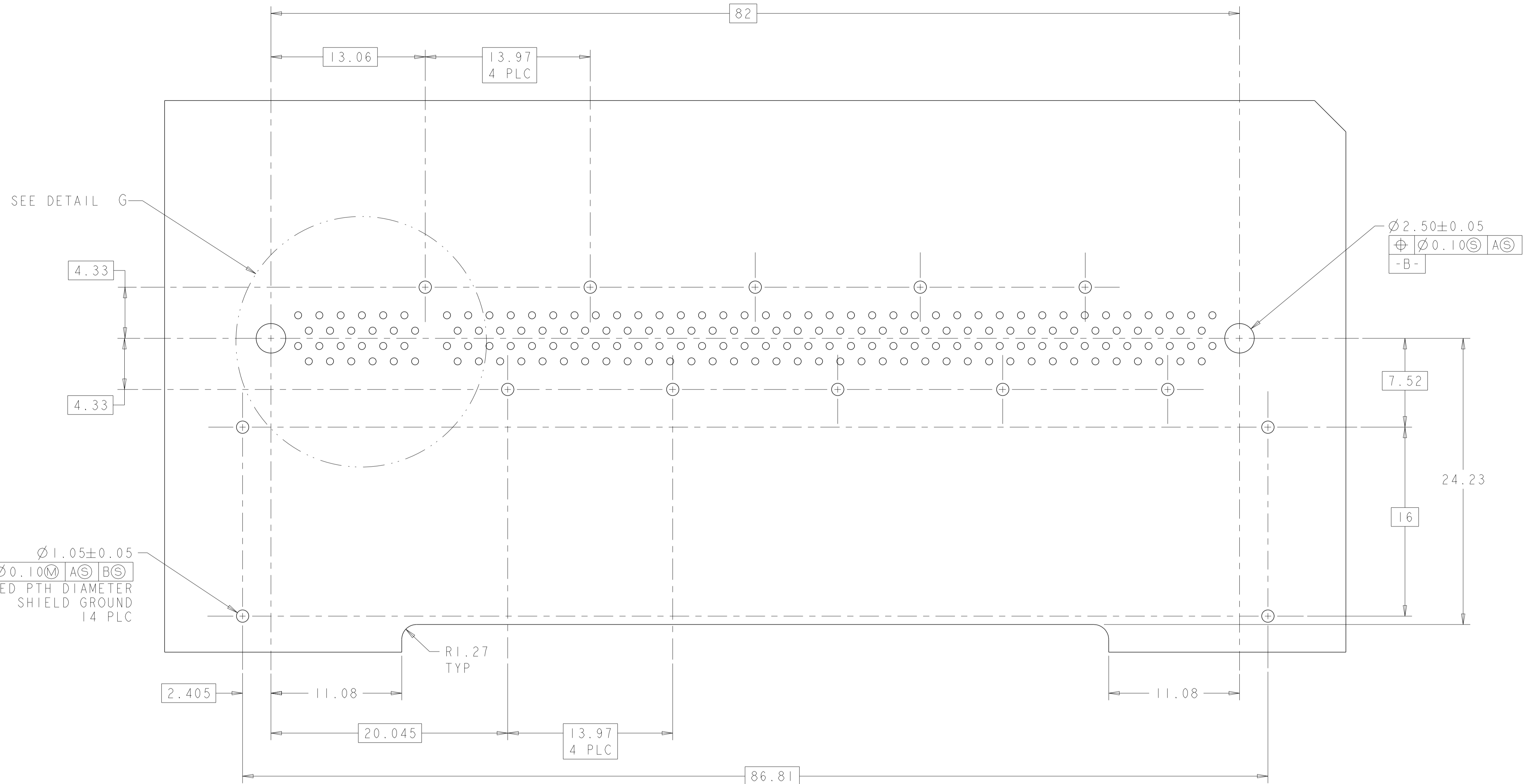
6. RJ45 PORT CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

7. TRP LOGO, AGENCY LOGO, PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN TO BE MARKED IN APPROXIMATE LOCATION SHOWN. DATA CODE "YY" IS THE YEAR, "WW" IS THE WEEK, "D" IS DAY OF WEEK, WITH SUNDAY="1".

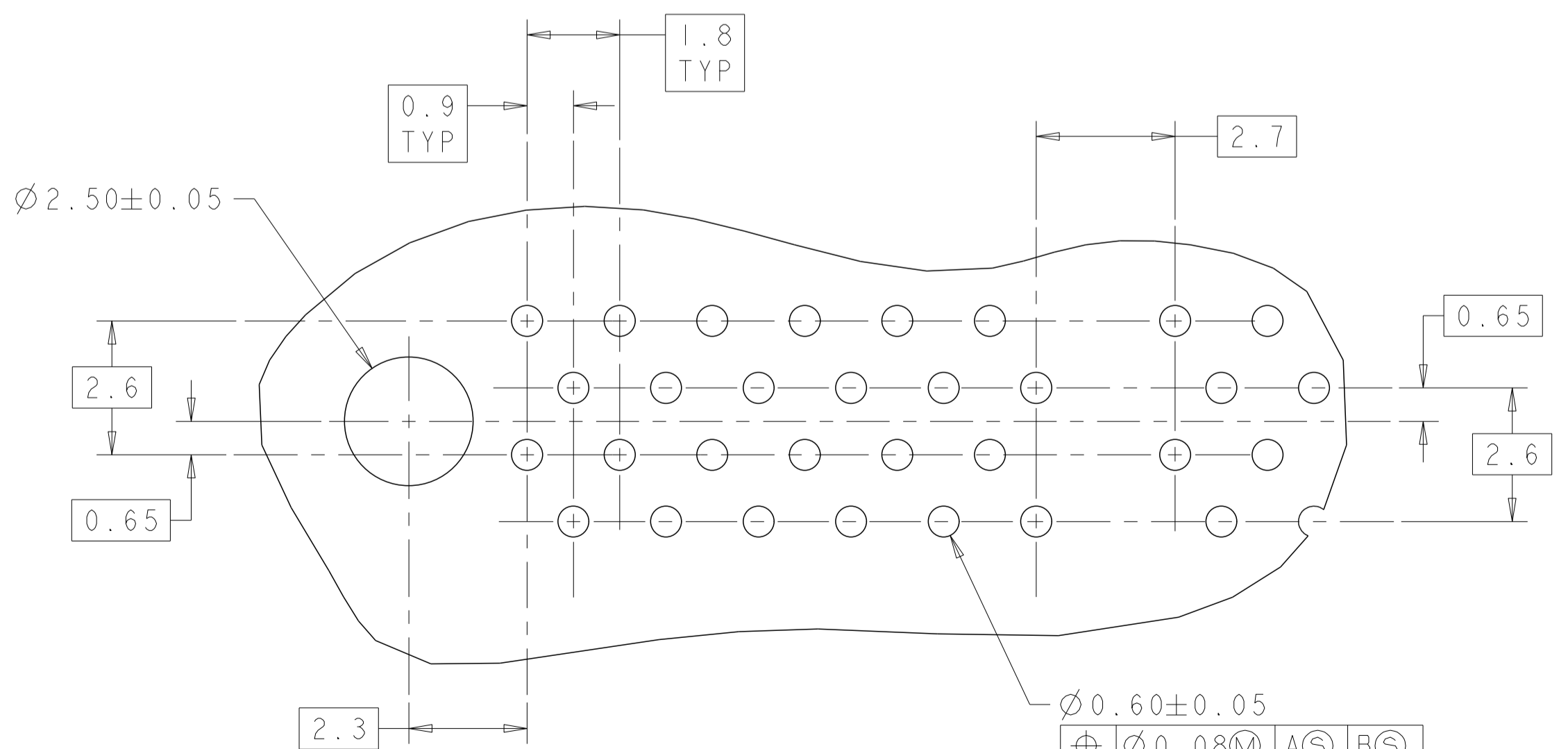


<b>OBSELETE</b>	RED/GRN	RED/GRN	PRESS FIT	1658827-3
	-	-	PRESS FIT	1658827-2
	YEL/GRN	YEL/GRN	PRESS FIT	1658827-1
	LED #2	LED #1	DESCRIPTION	PART NUMBER

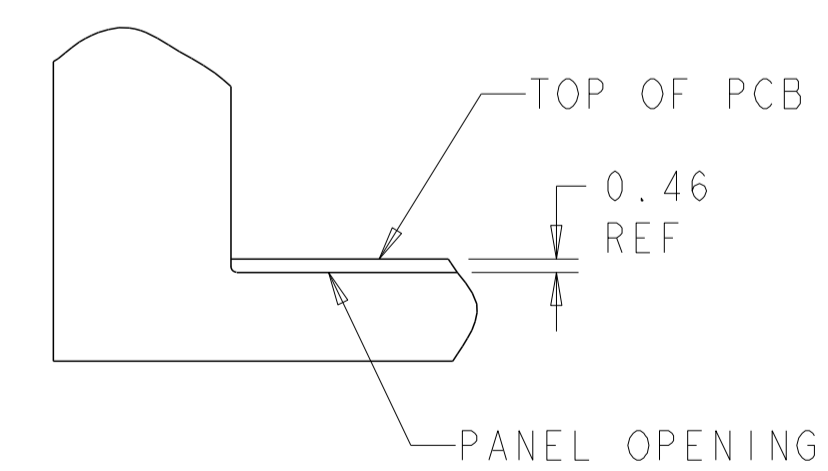
THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 06OCT03	<p>TRP connector Dongguan China</p>
DIMENSIONS: mm		APVD: 06OCT03	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: 06OCT03	
0 PLC ±	1 PLC ±	2 PLC ±0.25	3 PLC ±
4 PLC ±	ANGLES: ±3		FINISH: -
MATERIAL: -		WEIGHT: -	CUSTOMER DRAWING
DRAWN: M. E. SHIRK		06OCT03	<p>2X6 MAG45 (TM), GIGABIT S6G14 CIRCUIT NON-POE</p>
CHK: KEITH MURR		06OCT03	
APVD: KEITH MURR		06OCT03	NAME: 108-2178
PRODUCT SPEC: 114-13147		APPLICATION SPEC: -	SIZE: A1
SCALE: 5:2		SHEET: 1 OF 6	REV: G



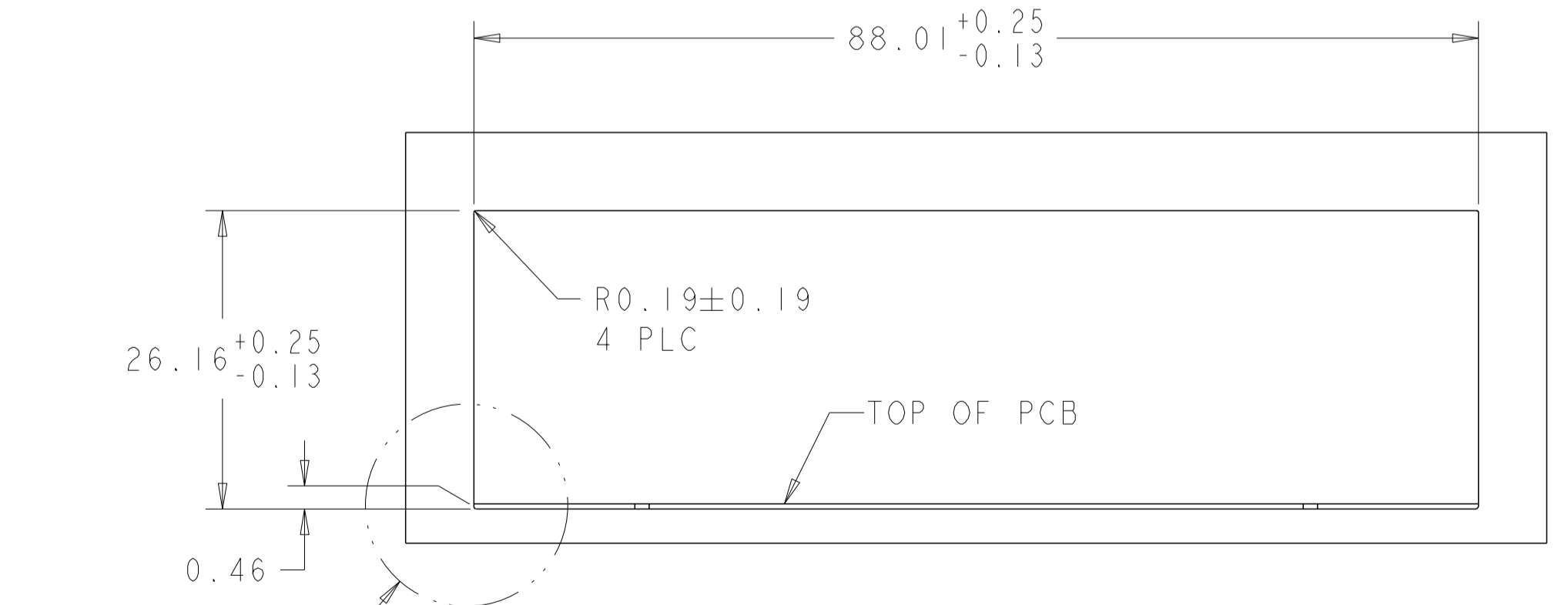
SCALE 5:1



DETAIL G  
 SCALE 10:1

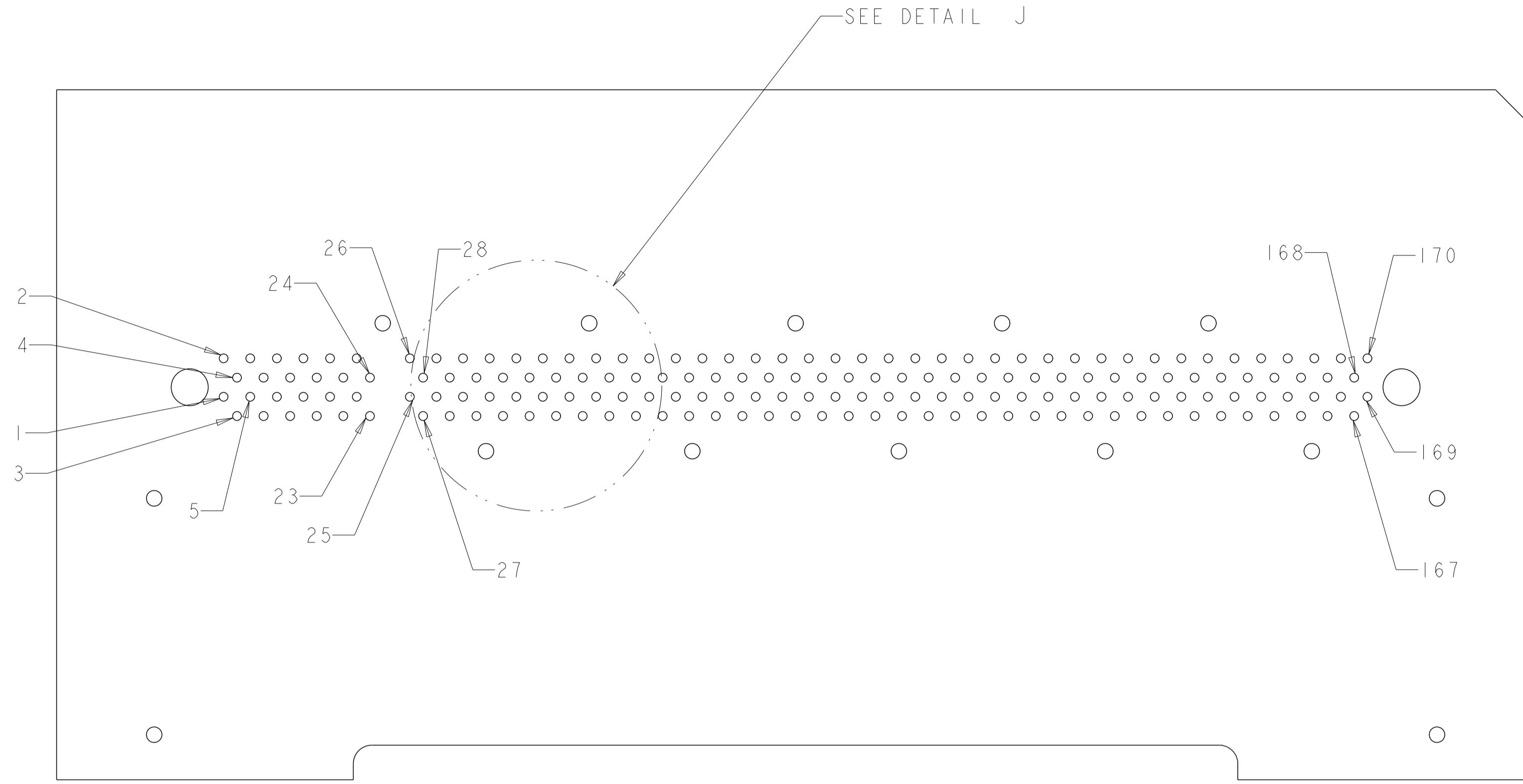


DETAIL K  
 SCALE 4:1

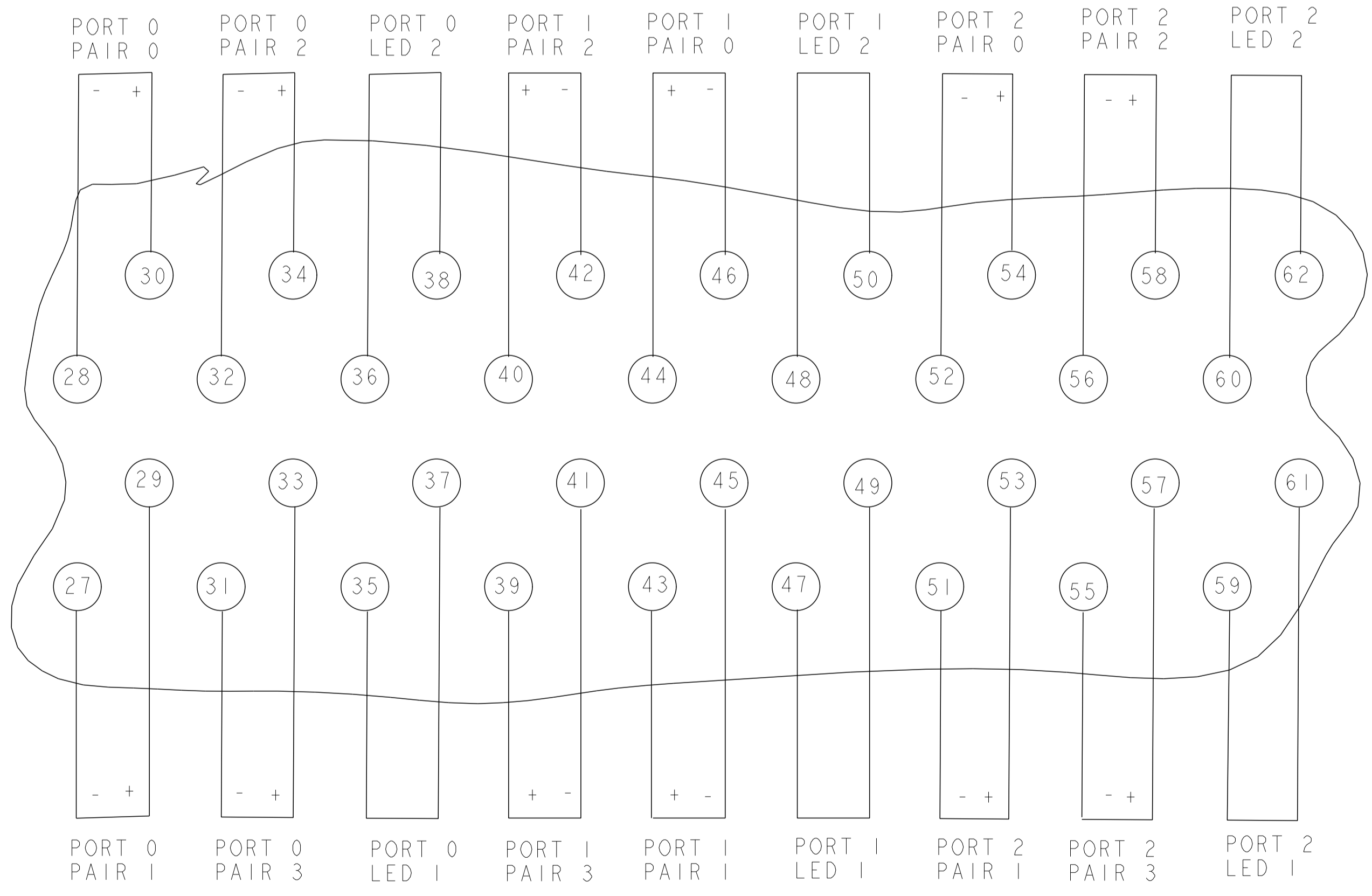


SEE DETAIL K  
 SUGGESTED PANEL CUTOUT DIMENSIONS  
 SCALE 2:1

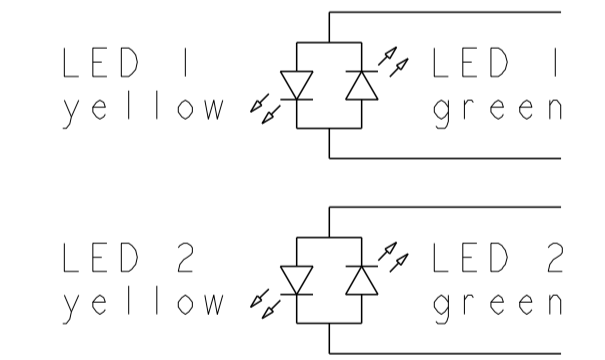
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG W. E. SHIRK 06OCT03	<p>TRP connector Dongguan China</p>
DIMENSIONS:		CHK KEITH MURR 06OCT03	
mm		APVD KEITH MURR 06OCT03	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	NAME
0 PLC	±	108-2178	2X6 MAG45 (TM), GIGABIT S6G14
1 PLC	±	APPLICATION SPEC	CIRCUIT NON-POE
2 PLC	±0.25		
3 PLC	±		
4 PLC	±		
MATERIAL		WEIGHT	SIZE
FINISH			CAGE CODE
			DRAWING NO.
			RESTRICTED TO
			A1
			©=1658827
			CUSTOMER DRAWING
			SCALE
			5:2
			SHEET
			2
			OF
			6
			REV
			G



SCALE 4:1



DETAIL J  
SCALE 20:1




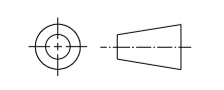
TYPICAL PATTERN FOR:

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


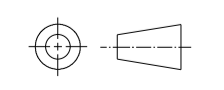
THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: M.E. SHIRK 06OCT03	 TRP connector Dongguan China
DIMENSIONS: mm		CHK: KEITH MURR 06OCT03	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: KEITH MURR 06OCT03	
0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±3 FINISH -	PRODUCT SPEC 108-2178 APPLICATION SPEC 114-13147 WEIGHT -	NAME: 2X6 MAG45 (TM), GIGABIT S6G14 CIRCUIT NON-POE SIZE: A1 CAGE CODE: 1658827 DRAWING NO: 1658827 RESTRICTED TO: -	
MATERIAL: -	FINISH: -	CUSTOMER DRAWING	SCALE: 5:2 SHEET: 3 OF 6 REV: G

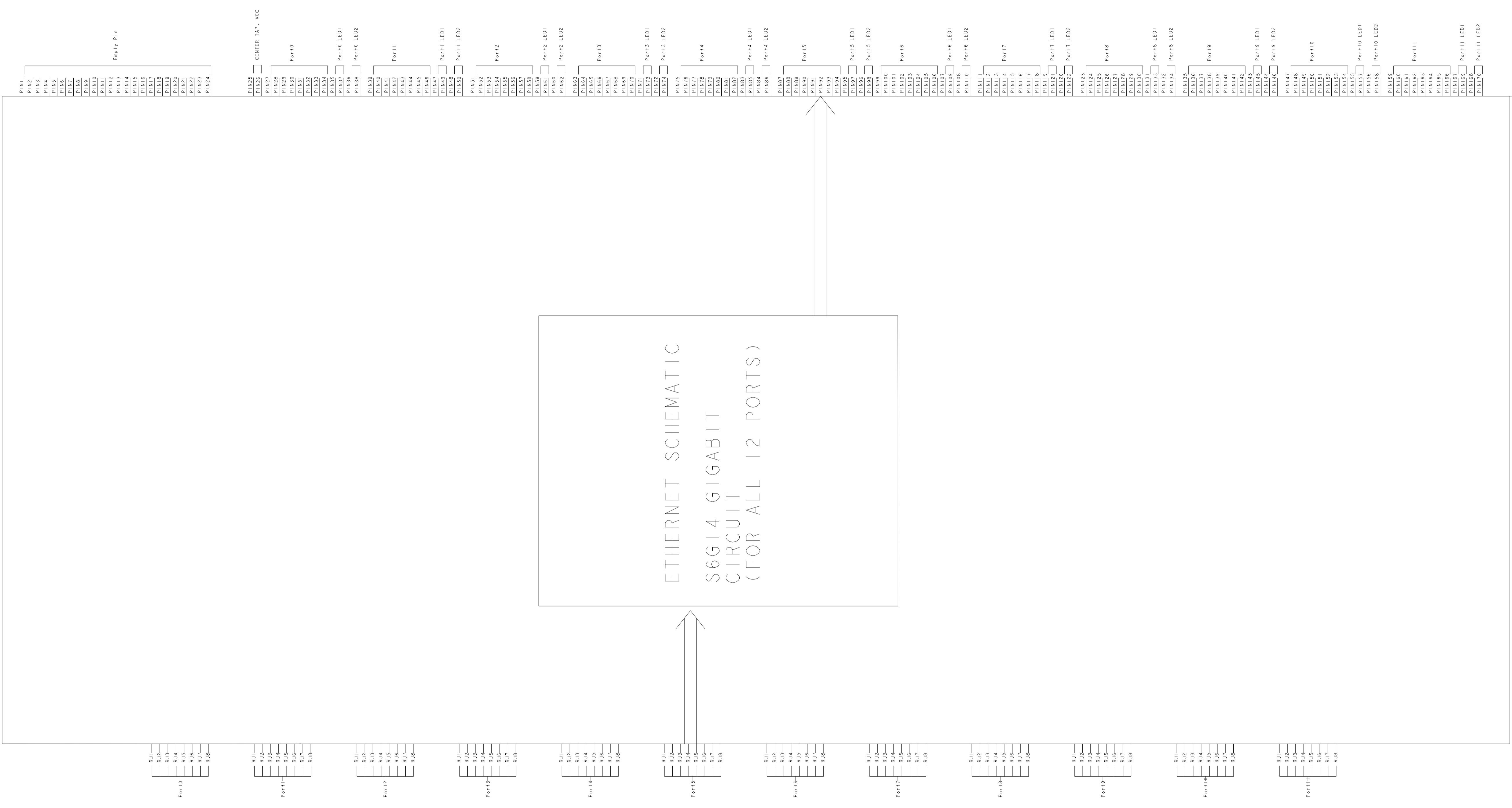
PIN ID	1658827-1	1658827-2	PIN ID	1658827-1	1658827-2	PIN ID	1658827-1	1658827-2
1	NO CONNECTION	NO CONNECTION	58	PORT 2 - PAIR 2 +	PORT 2 - PAIR 2 +	115	PORT 7 - PAIR 1 +	PORT 7 - PAIR 1 +
2	NO CONNECTION	NO CONNECTION	59	PORT 2 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	116	PORT 7 - PAIR 0 +	PORT 7 - PAIR 0 +
3	NO CONNECTION	NO CONNECTION	60	PORT 2 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	117	PORT 7 - PAIR 1 -	PORT 7 - PAIR 1 -
4	NO CONNECTION	NO CONNECTION	61	PORT 2 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	118	PORT 7 - PAIR 0 -	PORT 7 - PAIR 0 -
5	NO CONNECTION	NO CONNECTION	62	PORT 2 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	119	PORT 7 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION
6	NO CONNECTION	NO CONNECTION	63	PORT 3 - PAIR 3 +	PORT 3 - PAIR 3 +	120	PORT 7 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION
7	NO CONNECTION	NO CONNECTION	64	PORT 3 - PAIR 2 +	PORT 3 - PAIR 2 +	121	PORT 7 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION
8	NO CONNECTION	NO CONNECTION	65	PORT 3 - PAIR 3 -	PORT 3 - PAIR 3 -	122	PORT 7 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION
9	NO CONNECTION	NO CONNECTION	66	PORT 3 - PAIR 2 -	PORT 3 - PAIR 2 -	123	PORT 8 - PAIR 1 -	PORT 8 - PAIR 1 -
10	NO CONNECTION	NO CONNECTION	67	PORT 3 - PAIR 1 +	PORT 3 - PAIR 1 +	124	PORT 8 - PAIR 0 -	PORT 8 - PAIR 0 -
11	NO CONNECTION	NO CONNECTION	68	PORT 3 - PAIR 0 +	PORT 3 - PAIR 0 +	125	PORT 8 - PAIR 1 +	PORT 8 - PAIR 1 +
12	NO CONNECTION	NO CONNECTION	69	PORT 3 - PAIR 1 -	PORT 3 - PAIR 1 -	126	PORT 8 - PAIR 0 +	PORT 8 - PAIR 0 +
13	NO CONNECTION	NO CONNECTION	70	PORT 3 - PAIR 0 -	PORT 3 - PAIR 0 -	127	PORT 8 - PAIR 3 -	PORT 8 - PAIR 3 -
14	NO CONNECTION	NO CONNECTION	71	PORT 3 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION	128	PORT 8 - PAIR 2 -	PORT 8 - PAIR 2 -
15	NO CONNECTION	NO CONNECTION	72	PORT 3 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION	129	PORT 8 - PAIR 3 +	PORT 8 - PAIR 3 +
16	NO CONNECTION	NO CONNECTION	73	PORT 3 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION	130	PORT 8 - PAIR 2 +	PORT 8 - PAIR 2 +
17	NO CONNECTION	NO CONNECTION	74	PORT 3 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION	131	PORT 8 - LED 1 ANODE YEL, CATHODE GRN	NO CONNECTION
18	NO CONNECTION	NO CONNECTION	75	PORT 4 - PAIR 1 -	PORT 4 - PAIR 1 -	132	PORT 8 - LED 2 ANODE YEL, CATHODE GRN	NO CONNECTION
19	NO CONNECTION	NO CONNECTION	76	PORT 4 - PAIR 0 -	PORT 4 - PAIR 0 -	133	PORT 8 - LED 1 ANODE GRN, CATHODE YEL	NO CONNECTION
20	NO CONNECTION	NO CONNECTION	77	PORT 4 - PAIR 1 +	PORT 4 - PAIR 1 +	134	PORT 8 - LED 2 ANODE GRN, CATHODE YEL	NO CONNECTION
21	NO CONNECTION	NO CONNECTION	78	PORT 4 - PAIR 0 +	PORT 4 - PAIR 0 +	135	PORT 9 - PAIR 3 +	PORT 9 - PAIR 3 +
22	NO CONNECTION	NO CONNECTION	79	PORT 4 - PAIR 3 -	PORT 4 - PAIR 3 -	136	PORT 9 - PAIR 2 +	PORT 9 - PAIR 2 +
23	NO CONNECTION	NO CONNECTION	80	PORT 4 - PAIR 2 -	PORT 4 - PAIR 2 -	137	PORT 9 - PAIR 3 -	PORT 9 - PAIR 3 -
24	NO CONNECTION	NO CONNECTION	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.

APVD: <b>W E SHIRK</b>	060CT03	 TRP connector Dongguan China
CHK: <b>KEITH MUIRR</b>	060CT03	
APVD: <b>KEITH MUIRR</b>	060CT03	
DIMENSIONS: mm 		NAME: 2X6 MAG45 (TM), GIGABIT S6G14 APPLICATION SPEC: CIRCUIT NON-POE
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±3° FINISH:		SIZE: A1 CAGE CODE: 1658827 DRAWING NO: 114-13147 WEIGHT:
MATERIAL:		CUSTOMER DRAWING SCALE: 5:2 SHEET: 4 OF 6 REV: G

PIN ID	1658827-3	PIN ID	1658827-3	PIN ID	1658827-3
1	NO CONNECTION	58	PORT 2 - PAIR 2 +	115	PORT 7 - PAIR 1 +
2	NO CONNECTION	59	PORT 2 - LED 1 ANODE RED, CATHODE GRN	116	PORT 7 - PAIR 0 +
3	NO CONNECTION	60	PORT 2 - LED 2 ANODE RED, CATHODE GRN	117	PORT 7 - PAIR 1 -
4	NO CONNECTION	61	PORT 2 - LED 1 ANODE GRN, CATHODE RED	118	PORT 7 - PAIR 0 -
5	NO CONNECTION	62	PORT 2 - LED 2 ANODE GRN, CATHODE RED	119	PORT 7 - LED 1 ANODE RED, CATHODE GRN
6	NO CONNECTION	63	PORT 3 - PAIR 3 +	120	PORT 7 - LED 2 ANODE RED, CATHODE GRN
7	NO CONNECTION	64	PORT 3 - PAIR 2 +	121	PORT 7 - LED 1 ANODE GRN, CATHODE RED
8	NO CONNECTION	65	PORT 3 - PAIR 3 -	122	PORT 7 - LED 2 ANODE GRN, CATHODE RED
9	NO CONNECTION	66	PORT 3 - PAIR 2 -	123	PORT 8 - PAIR 1 -
10	NO CONNECTION	67	PORT 3 - PAIR 1 +	124	PORT 8 - PAIR 0 -
11	NO CONNECTION	68	PORT 3 - PAIR 0 +	125	PORT 8 - PAIR 1 +
12	NO CONNECTION	69	PORT 3 - PAIR 1 -	126	PORT 8 - PAIR 0 +
13	NO CONNECTION	70	PORT 3 - PAIR 0 -	127	PORT 8 - PAIR 3 -
14	NO CONNECTION	71	PORT 3 - LED 1 ANODE RED, CATHODE GRN	128	PORT 8 - PAIR 2 -
15	NO CONNECTION	72	PORT 3 - LED 2 ANODE RED, CATHODE GRN	129	PORT 8 - PAIR 3 +
16	NO CONNECTION	73	PORT 3 - LED 1 ANODE GRN, CATHODE RED	130	PORT 8 - PAIR 2 +
17	NO CONNECTION	74	PORT 3 - LED 2 ANODE GRN, CATHODE RED	131	PORT 8 - LED 1 ANODE RED, CATHODE GRN
18	NO CONNECTION	75	PORT 4 - PAIR 1 -	132	PORT 8 - LED 2 ANODE RED, CATHODE GRN
19	NO CONNECTION	76	PORT 4 - PAIR 0 -	133	PORT 8 - LED 1 ANODE GRN, CATHODE RED
20	NO CONNECTION	77	PORT 4 - PAIR 1 +	134	PORT 8 - LED 2 ANODE GRN, CATHODE RED
21	NO CONNECTION	78	PORT 4 - PAIR 0 +	135	PORT 9 - PAIR 3 +
22	NO CONNECTION	79	PORT 4 - PAIR 3 -	136	PORT 9 - PAIR 2 +
23	NO CONNECTION	80	PORT 4 - PAIR 2 -	137	PORT 9 - PAIR 3 -
24	NO CONNECTION	81	PORT 4 - PAIR 3 +	138	PORT 9 - PAIR 2 -
25	CENTER TAP VCC, PORTS 6-11	82	PORT 4 - PAIR 2 +	139	PORT 9 - PAIR 1 +
26	CENTER TAP VCC, PORTS 0-5	83	PORT 4 - LED 1 ANODE RED, CATHODE GRN	140	PORT 9 - PAIR 0 +
27	PORT 0 - PAIR 1 -	84	PORT 4 - LED 2 ANODE RED, CATHODE GRN	141	PORT 9 - PAIR 1 -
28	PORT 0 - PAIR 0 -	85	PORT 4 - LED 1 ANODE GRN, CATHODE RED	142	PORT 9 - PAIR 0 -
29	PORT 0 - PAIR 1 +	86	PORT 4 - LED 2 ANODE GRN, CATHODE RED	143	PORT 9 - LED 1 ANODE RED, CATHODE GRN
30	PORT 0 - PAIR 0 +	87	PORT 5 - PAIR 3 +	144	PORT 9 - LED 2 ANODE RED, CATHODE GRN
31	PORT 0 - PAIR 3 -	88	PORT 5 - PAIR 2 +	145	PORT 9 - LED 1 ANODE GRN, CATHODE RED
32	PORT 0 - PAIR 2 -	89	PORT 5 - PAIR 3 -	146	PORT 9 - LED 2 ANODE GRN, CATHODE RED
33	PORT 0 - PAIR 3 +	90	PORT 5 - PAIR 2 -	147	PORT 10 - PAIR 1 -
34	PORT 0 - PAIR 2 +	91	PORT 5 - PAIR 1 +	148	PORT 10 - PAIR 0 -
35	PORT 0 - LED 1 ANODE RED, CATHODE GRN	92	PORT 5 - PAIR 0 +	149	PORT 10 - PAIR 1 +
36	PORT 0 - LED 2 ANODE RED, CATHODE GRN	93	PORT 5 - PAIR 1 -	150	PORT 10 - PAIR 0 +
37	PORT 0 - LED 1 ANODE GRN, CATHODE RED	94	PORT 5 - PAIR 0 -	151	PORT 10 - PAIR 3 -
38	PORT 0 - LED 2 ANODE GRN, CATHODE RED	95	PORT 5 - LED 1 ANODE RED, CATHODE GRN	152	PORT 10 - PAIR 2 -
39	PORT 1 - PAIR 3 +	96	PORT 5 - LED 2 ANODE RED, CATHODE GRN	153	PORT 10 - PAIR 3 +
40	PORT 1 - PAIR 2 +	97	PORT 5 - LED 1 ANODE GRN, CATHODE RED	154	PORT 10 - PAIR 2 +
41	PORT 1 - PAIR 3 -	98	PORT 5 - LED 2 ANODE GRN, CATHODE RED	155	PORT 10 - LED 1 ANODE RED, CATHODE GRN
42	PORT 1 - PAIR 2 -	99	PORT 6 - PAIR 1 -	156	PORT 10 - LED 2 ANODE RED, CATHODE GRN
43	PORT 1 - PAIR 1 +	100	PORT 6 - PAIR 0 -	157	PORT 10 - LED 1 ANODE GRN, CATHODE RED
44	PORT 1 - PAIR 0 +	101	PORT 6 - PAIR 1 +	158	PORT 10 - LED 2 ANODE GRN, CATHODE RED
45	PORT 1 - PAIR 1 -	102	PORT 6 - PAIR 0 +	159	PORT 11 - PAIR 3 +
46	PORT 1 - PAIR 0 -	103	PORT 6 - PAIR 3 -	160	PORT 11 - PAIR 2 +
47	PORT 1 - LED 1 ANODE RED, CATHODE GRN	104	PORT 6 - PAIR 2 -	161	PORT 11 - PAIR 3 -
48	PORT 1 - LED 2 ANODE RED, CATHODE GRN	105	PORT 6 - PAIR 3 +	162	PORT 11 - PAIR 2 -
49	PORT 1 - LED 1 ANODE GRN, CATHODE RED	106	PORT 6 - PAIR 2 +	163	PORT 11 - PAIR 1 +
50	PORT 1 - LED 2 ANODE GRN, CATHODE RED	107	PORT 6 - LED 1 ANODE RED, CATHODE GRN	164	PORT 11 - PAIR 0 +
51	PORT 2 - PAIR 1 -	108	PORT 6 - LED 2 ANODE RED, CATHODE GRN	165	PORT 11 - PAIR 1 -
52	PORT 2 - PAIR 0 -	109	PORT 6 - LED 1 ANODE GRN, CATHODE RED	166	PORT 11 - PAIR 0 -
53	PORT 2 - PAIR 1 +	110	PORT 6 - LED 2 ANODE GRN, CATHODE RED	167	PORT 11 - LED 1 ANODE RED, CATHODE GRN
54	PORT 2 - PAIR 0 +	111	PORT 7 - PAIR 3 +	168	PORT 11 - LED 2 ANODE RED, CATHODE GRN
55	PORT 2 - PAIR 3 -	112	PORT 7 - PAIR 2 +	169	PORT 11 - LED 1 ANODE GRN, CATHODE RED
56	PORT 2 - PAIR 2 -	113	PORT 7 - PAIR 3 -	170	PORT 11 - LED 2 ANODE GRN, CATHODE RED
57	PORT 2 - PAIR 3 +	114	PORT 7 - PAIR 2 -		

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. E. SHIRK 06OCT03 CHK KEITH MURR 06OCT03 APVD KEITH MURR 06OCT03	 TRP connector Dongguan China
DIMENSIONS: mm	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	
		NAME 2X6 MAG45 (TM), GIGABIT S6G14 CIRCUIT NON-POE	SIZE CAGE CODE DRAWING NO A1 C=1658827
MATERIAL		CUSTOMER DRAWING	SCALE 5:2 SHEET 5 OF 6 REV G



ETHERNET SCHEMATIC  
S6G14 GIGABIT  
CIRCUIT  
(FOR ALL 12 PORTS)

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 0

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 1

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 2

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 3

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 4

RJ1  
RJ2  
RJ3  
RJ4  
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RJ6  
RJ7  
RJ8  
Port 5

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 6

RJ1  
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RJ8  
Port 7

RJ1  
RJ2  
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RJ7  
RJ8  
Port 8

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 9

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 10

RJ1  
RJ2  
RJ3  
RJ4  
RJ5  
RJ6  
RJ7  
RJ8  
Port 11

PANI1  
PANI2  
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PANI99  
PANI100

CENTER TAP, VCC

Port 0

Port 0 LED1

Port 0 LED2

Port 1

Port 1 LED1

Port 1 LED2

Port 2

Port 2 LED1

Port 2 LED2

Port 3

Port 3 LED1

Port 3 LED2

Port 4

Port 4 LED1

Port 4 LED2

Port 5

Port 5 LED1

Port 5 LED2

Port 6

Port 6 LED1

Port 6 LED2

Port 7

Port 7 LED1

Port 7 LED2

Port 8

Port 8 LED1

Port 8 LED2

Port 9

Port 9 LED1

Port 9 LED2

Port 10

Port 10 LED1

Port 10 LED2

Port 11

Port 11 LED1

Port 11 LED2

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DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±	PRODUCT SPEC 108-2178 APPLICATION SPEC 114-13147	
MATERIAL	FINISH	WEIGHT	CUSTOMER DRAWING SCALE 5:2 SHEET 6 OF 6 REV G