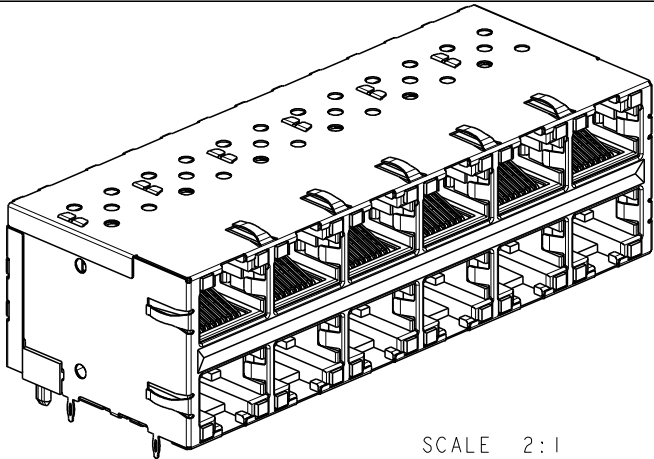


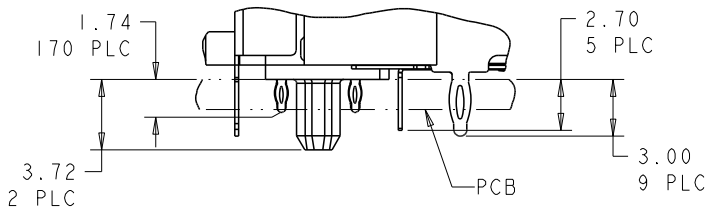
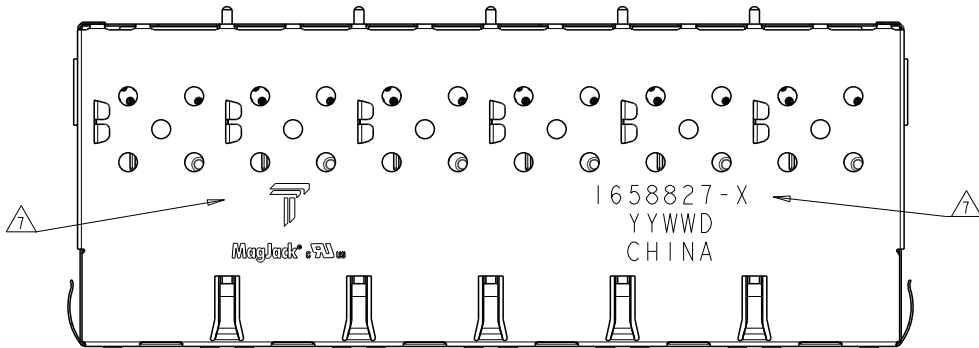
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

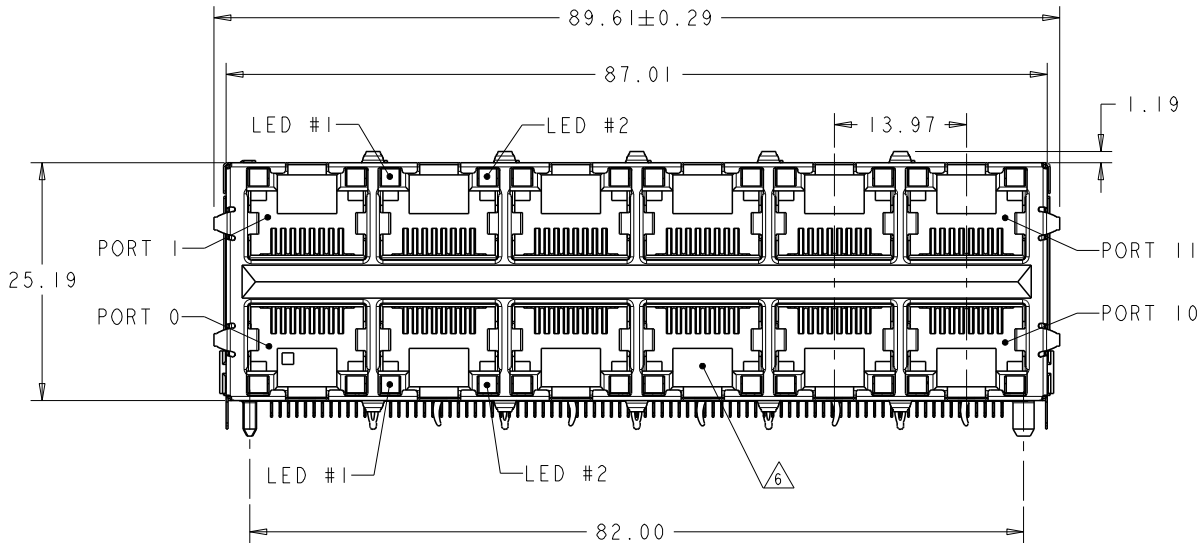
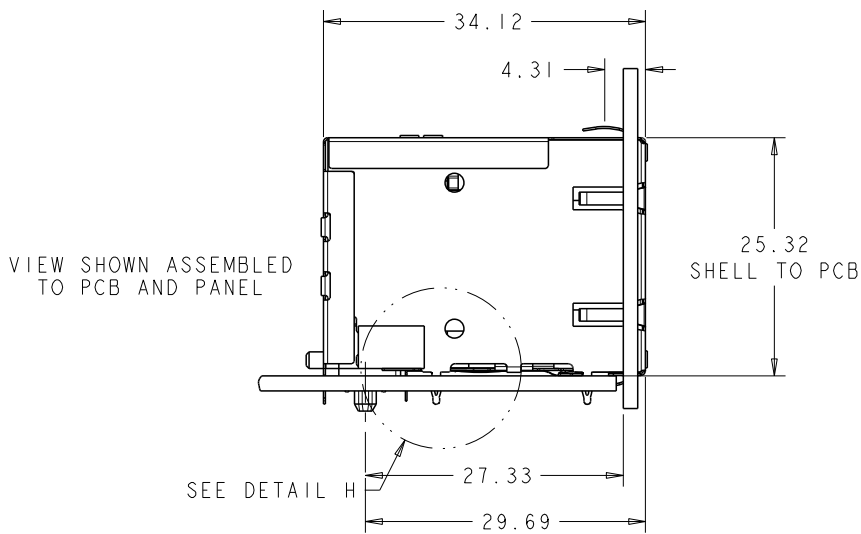
REVISIONS				
#	LYR	DESCRIPTION	DATE	OWN APVD
J		EC-1411035 COMPANY LOGO CHANGE	29JAN2015	TR TY



SCALE 2:1

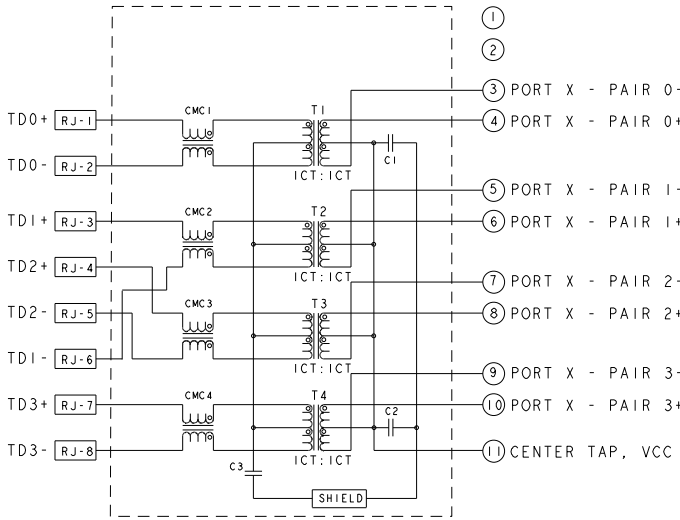


DETAIL H
PRESS FIT
SCALE 5:1



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): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
-DIELECTRONIC (ISOLATION VOLTAGE): 2250 VDC(1mA CUTOFF CURRENT) 60 SECONDS DURATION.
-ALL FOUR PAIRS BJ-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

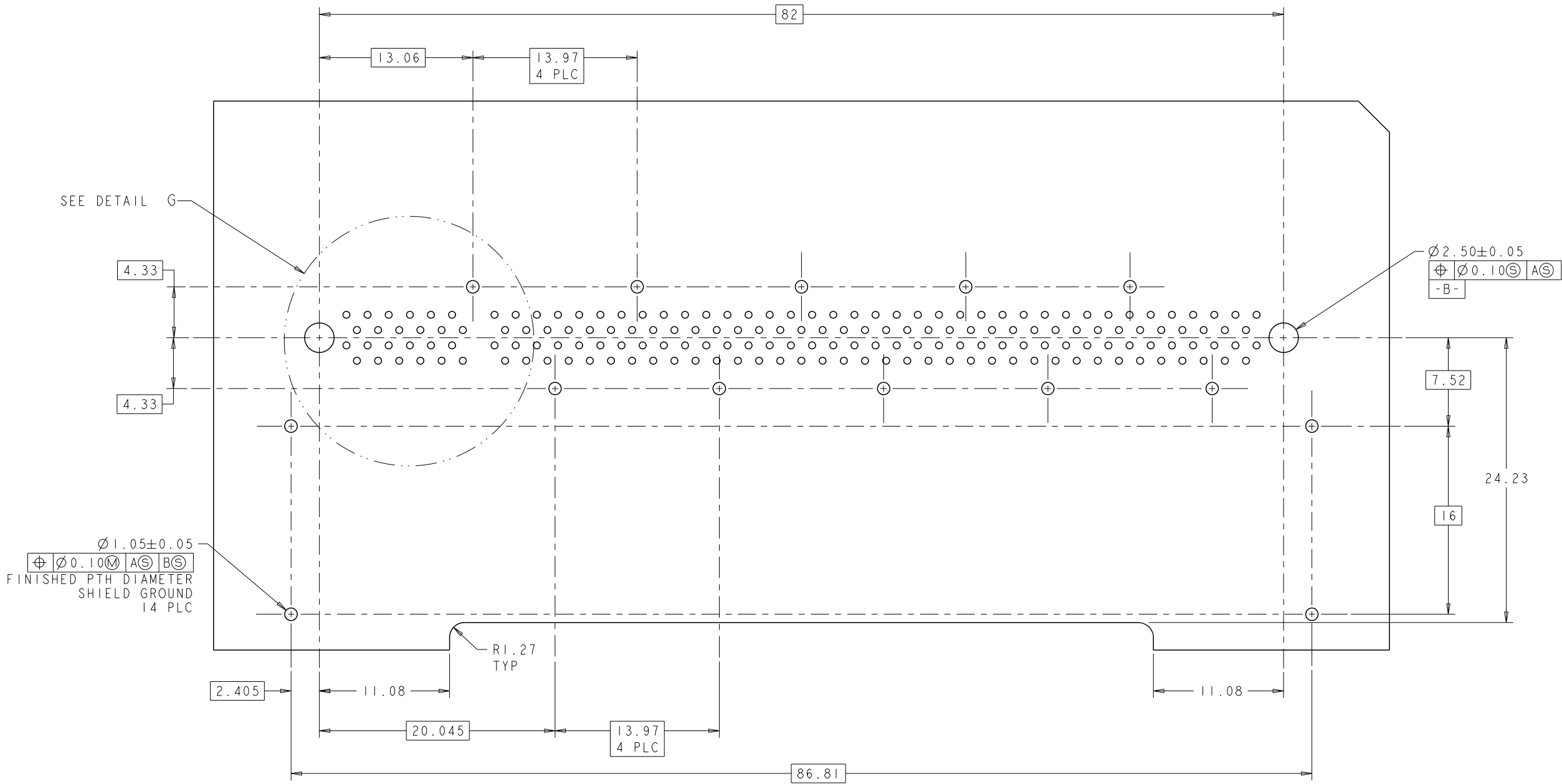
4. ALL DIMENSIONS NOMINAL UNLESS OTHERWISE STATED.

5. RECOMMENDED MOTHERBOARD PCB THICKNESS: 1.59 mm.

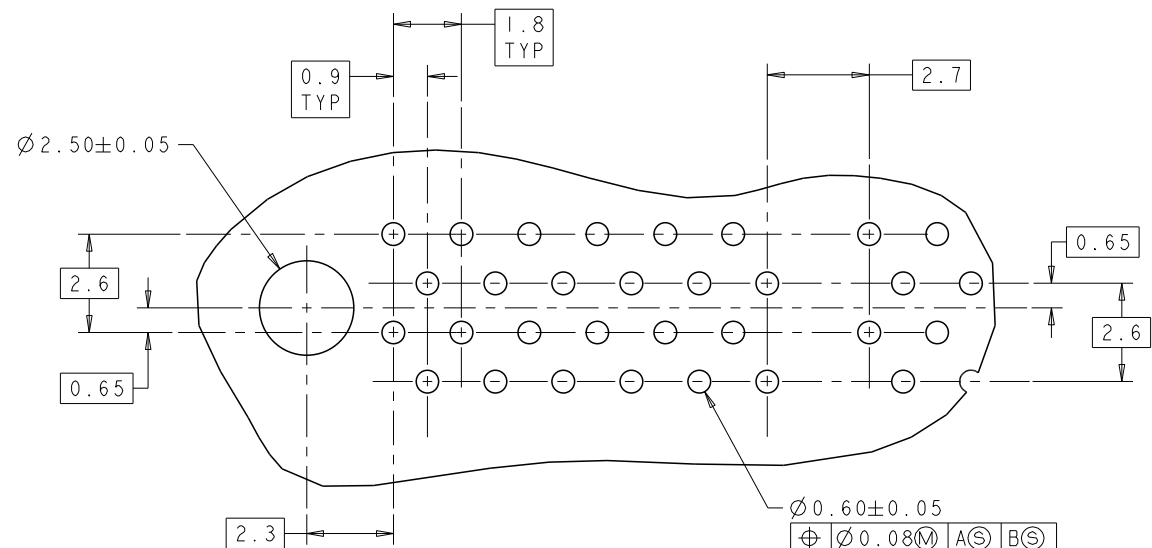
6. RJ45 PORT CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
7. TRP LOGO, AGENCY LOGO, PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN TO BE MARKED IN APPROXIMATE LOCATION SHOWN. DATA CODE "YY" IS THE YEAR, "WW" IS THE WEEK, "D" IS DAY OF WEEK, WITH SUNDAY="1".

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

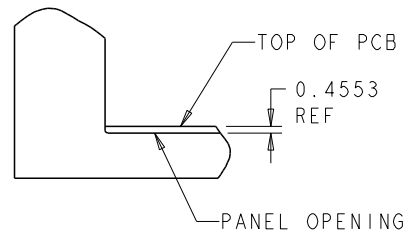
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN M.E. SHIRK 06OCT03	 trp CONNECTOR a bel group	DONGGUAN CHINA
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	CHK KEITH MURR 06OCT03		
mm	0 PLC ± 1 PLC ±0.25 2 PLC ± 3 PLC ± 4 PLC ± ANGLES ±3	APVD KEITH MURR 06OCT03		
PRODUCT SPEC 108-2178	APPLICATION SPEC 114-13147	MODEL NAME MAGJACK STACK NON-PoE		
CUSTOMER DRAWING		SIZE A1	CAGE CODE C=1658827	RESTRICTED TO -
		SCALE 4:1	SHEET 1 OF 6	REV J



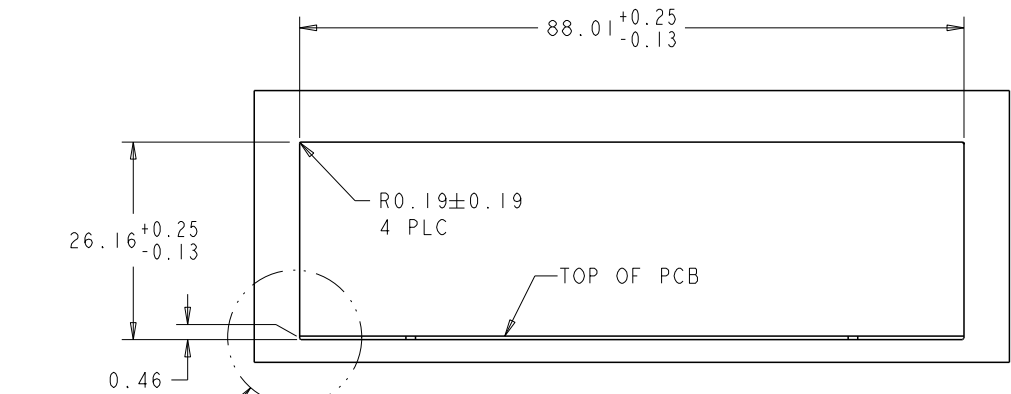
SCALE 5:1



DETAIL G
SCALE 10:1

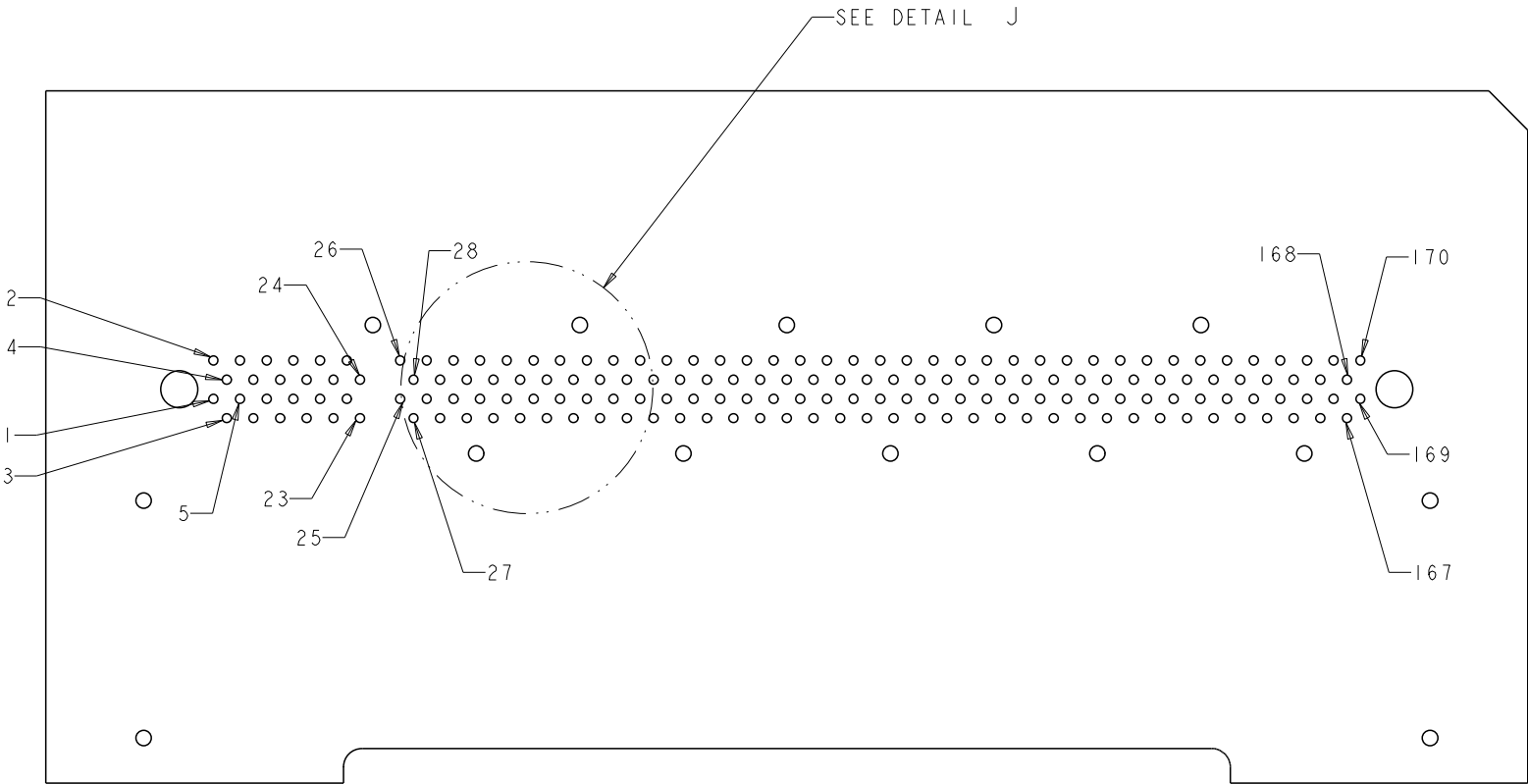


DETAIL K
SCALE 4:1

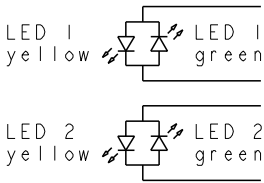
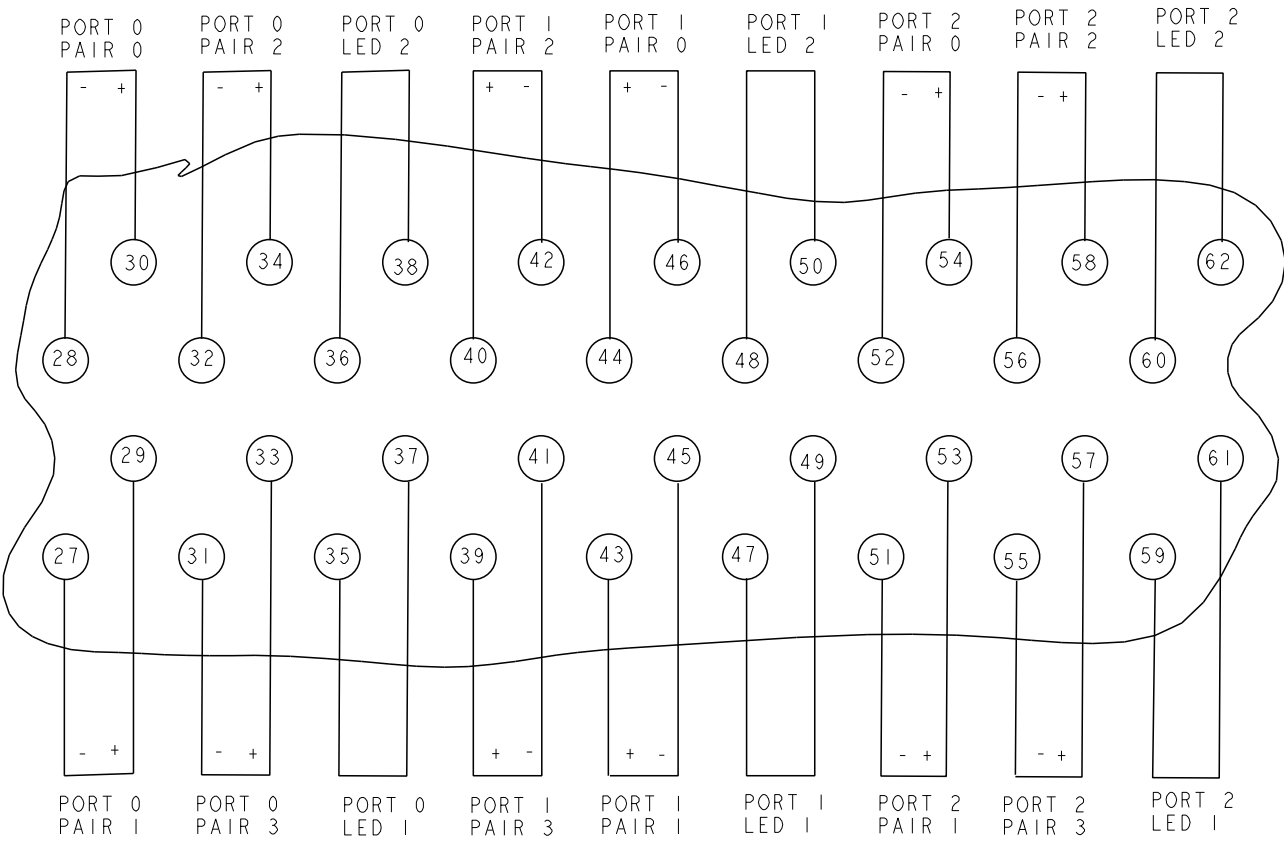


SUGGESTED PANEL CUTOUT DIMENSIONS
SCALE 2:1

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		CHK KEITH MURR 06OCT03				
		APP'D KEITH MURR 06OCT03				
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DESC		RESTRICTED TO
mm		0 PLC ±: 1 PLC ±: 2 PLC ±0.25 3 PLC ±: 4 PLC ±:		2X6 S6G14 GIGABIT PRESSFIT W/ LED		
		ANGLES APPLICATION SPEC		SIZE A1		
PRODUCT SPEC 108-2178		114-13147		DRAWING NO C=1658827		
				CUSTOMER DRAWING		
				SCALE 4:1		SHEET 2 of 6
						REV J



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 M.E. SHIRK	06OCT03	 trp CONNECTOR a bel group	DONGGUAN CHINA	
		CHK KEITH MURR	06OCT03			
		APPD KEITH MURR	06OCT03			
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME		
mm		0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±3		DESC		
				2X6 S6G14 GIGABIT PRESSFIT W/ LED		
PRODUCT SPEC		APPLICATION SPEC		SIZE CAGE CODE DRAWING NO		
108-2178		114-13147		A1 ©1658827		
		CUSTOMER DRAWING		RESTRICTED TO		
				SCALE 4:1 SHEET 3 OF 6 REV J		

CDownloaded from Arrow.com.

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

0 PLC ±"

1 PLC ±"

2 PLC ±0.25

3 PLC ±"

4 PLC ±"

ANGLES ±3

PRODUCT SPEC
108-2178

APPLICATION SPEC
114-13147

MODEL NAME
MAGJACK

DESC
STACK NON-PoE

SIZE
A 1

CAGE CODE
C=1658827

DRAWING NO
-

CUSTOMER DRAWING

SCALE
4:1

SHEET
5 OF 6

REV
J

trp

CONNECTOR

DONGGUAN
CHINA

