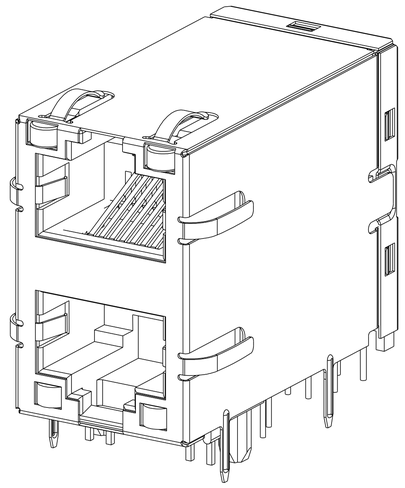
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

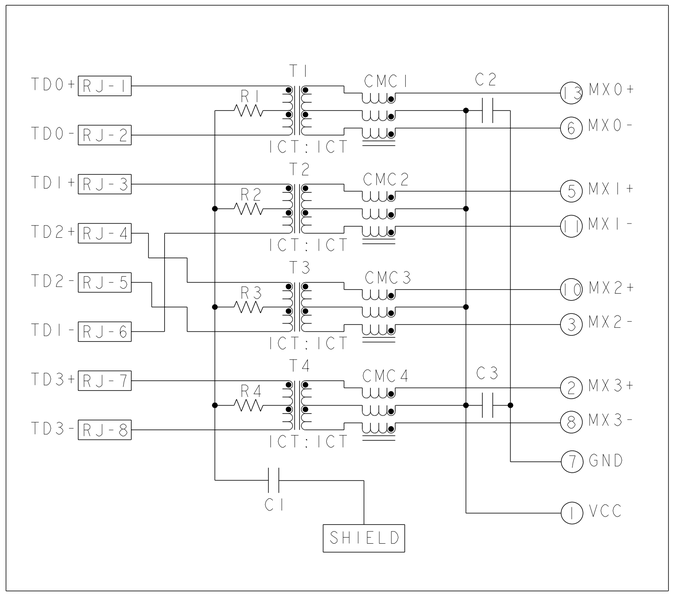
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	6	EC-1411035 COMPANY LOGO CHANGE	18DEC2014	GZ	TY



S8G91ET GIGABIT CIRCUIT 2 7

TOP AND BOTTOM PORTS



C1 = 1000pF, 2KV CAPACITOR
C2-C3 = 10nF, 50V CAPACITORS
R1-R4 = 75 Ohms, 1/16W, RESISTORS

1. MATERIALS:
   PLASTIC HOUSING: BLACK, THERMOPLASTIC 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, 1.27um MIN OVERALL NICKEL
   UNDERPLATE WITH SELECTED 1.27um MIN GOLD AT MATING INTERFACE
   AND 2.54um MIN MATTE TIN ON SOLDER TAILS.

2. MAGNETICS
   APPLICATION: 10/100/1000 BASE-T, EXTENDED TEMPERATURE
   IMPEDANCE: 100 OHMS
   TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
   OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
   8mADC BIAS FROM -40°C TO +85°C, ALL FOUR PAIRS
   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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF
   500V/SEC AND WITH ALL PORTS CONNECTED.

3. PART NUMBER,DATE CODE,COUNTRY OF ORIGIN IN APPROPRIATE LOCATION SHOWN.DATE CODE: "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1

4. COMPANY LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN APPROXIMATE AREA SHOWN.

5. OPERATING TEMPERATURE: FROM -40°C TO +85°C.

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

7. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

8. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

9. LED COLOR:
   DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ I_F=20mA
   FORWARD VOLTAGE (V_F): GREEN 2.2V TYP. @ I_F=20mA
   DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ I_F=20mA
   FORWARD VOLTAGE (V_F): YELLOW 2.1V TYP. @ I_F=20mA

10. THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

3.18	GRN/YEL	GREEN	GRN/YEL	GREEN	3-1840934-5
3.18	GREEN	GREEN	GREEN	GREEN	1840934-1
DIM A	BOTTOM LED2 COLOR	BOTTOM LED1 COLOR	TOP LED2 COLOR	TOP LED1 COLOR	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN RICHARD QIAN 26JAN2010
CHK FRANK LIU 26JAN2010
APVD LIJUN RAO 26JAN2010

trp CONNECTOR a bel group — DONGGUAN CHINA

DIMENSIONS: mm

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

MODEL NAME: MAGJACK STACK Non-PoE

DESC: 2X1 S8G91ET GIGABIT W/ LED

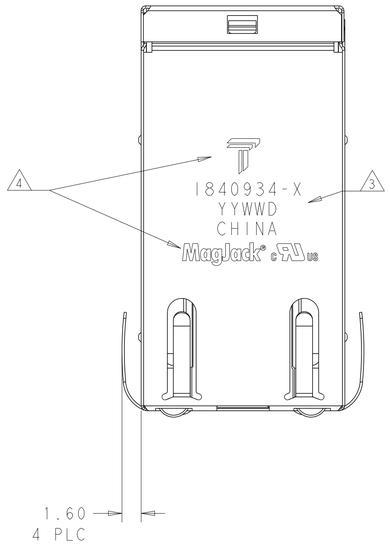
PRODUCT SPEC	APPLICATION SPEC
108-104004	-

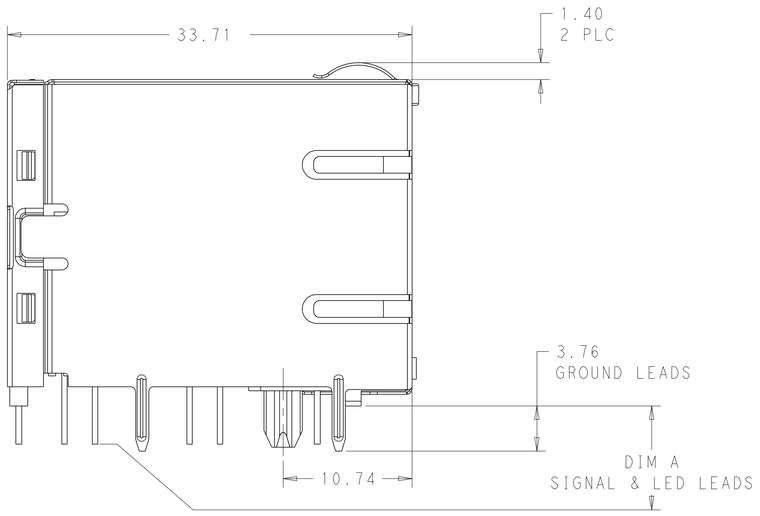
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		C-1840934	-

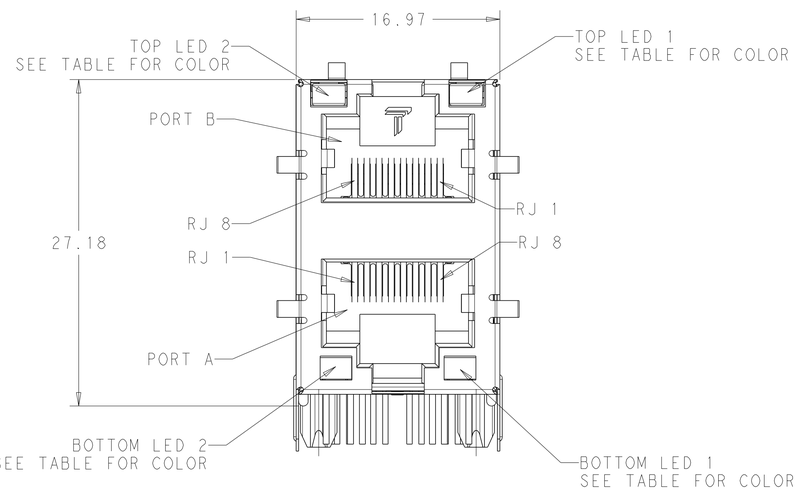
CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 4 | REV 6

Please read our datasheet & drawing disclaimer here.

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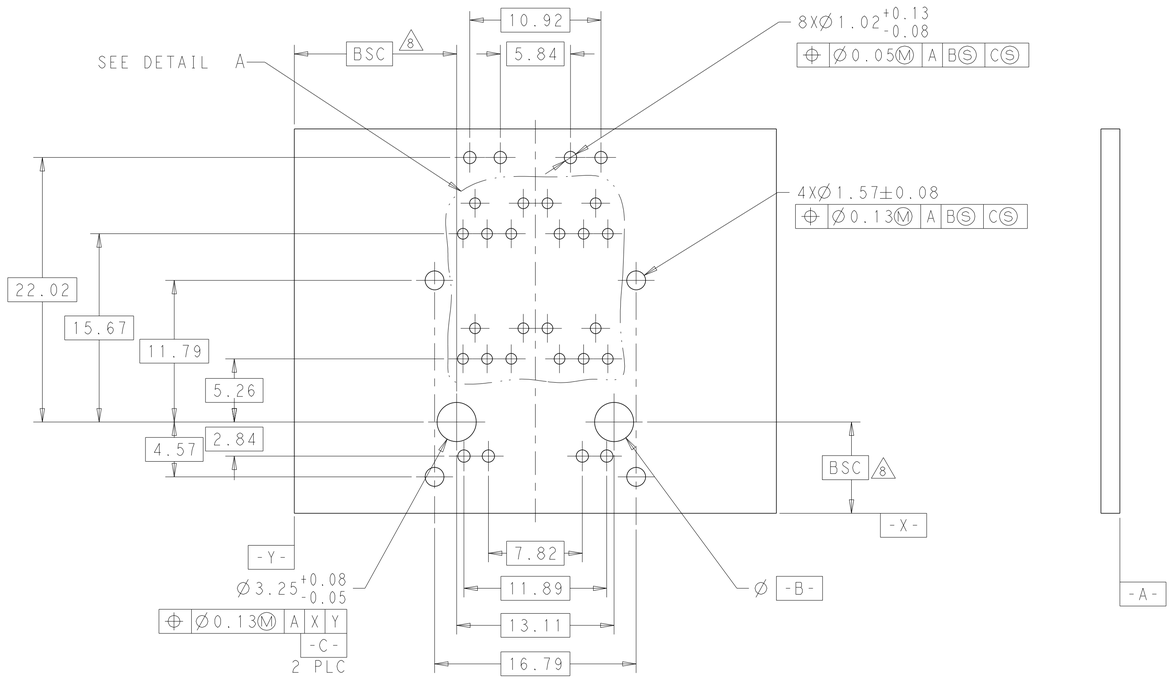




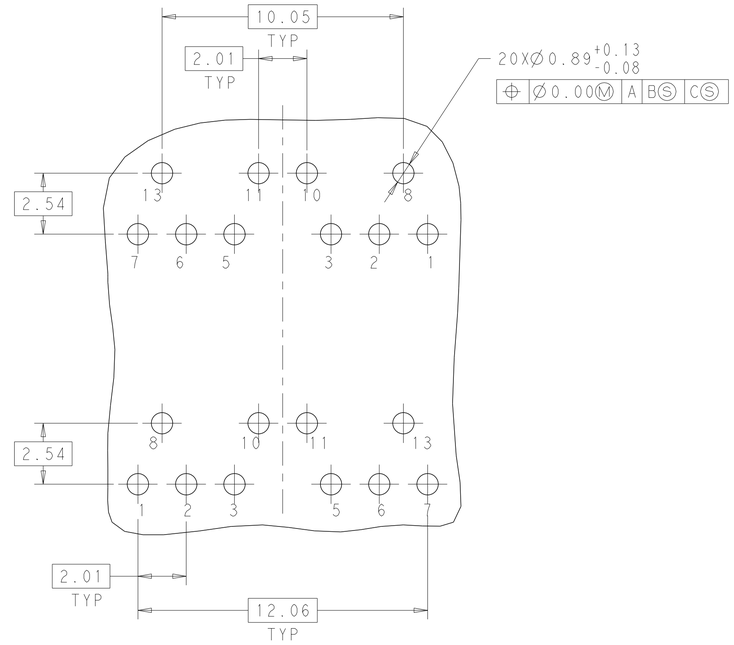
THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RICHARD QIAN 26JAN2010	trp CONNECTOR a bel group — DONGGUAN CHINA
		CHK FRANK LIU 26JAN2010	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25; 1 PLC ±0.25; 2 PLC ±0.25; 3 PLC ±-; 4 PLC ±-; ANGLES ±-	APVD LIJUN RAO 26JAN2010	MODEL NAME: MAGJACK STACK Non-PoE — DESC: 2X1 S8G91ET G1GABIT W/ LED
PRODUCT SPEC: 108-104004	APPLICATION SPEC: -	CUSTOMER DRAWING	SIZE A1 — CAGE CODE — DRAWING NO C-1840934 — RESTRICTED TO - — SCALE 4:1 — SHEET 2 OF 4 — REV 6

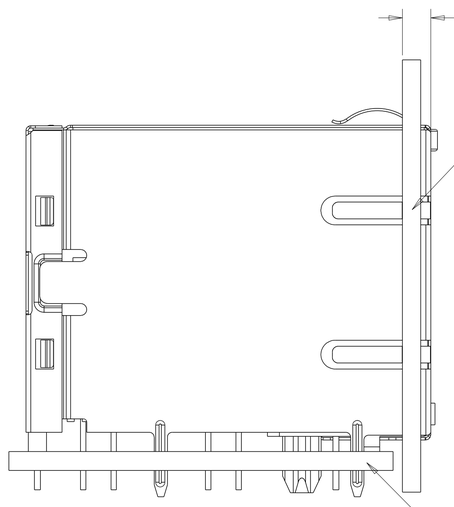
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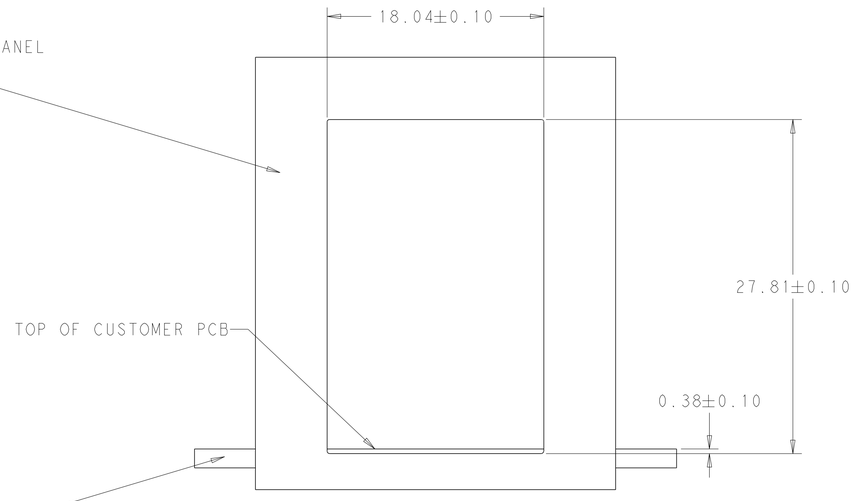
RECOMMENDED PCB LAYOUT
COMPONENT SIDE VIEW
SCALE 4:1



DETAIL A
SCALE 8:1



SHOWN WITH PANEL AND
CUSTOMER PCB ASSEMBLY

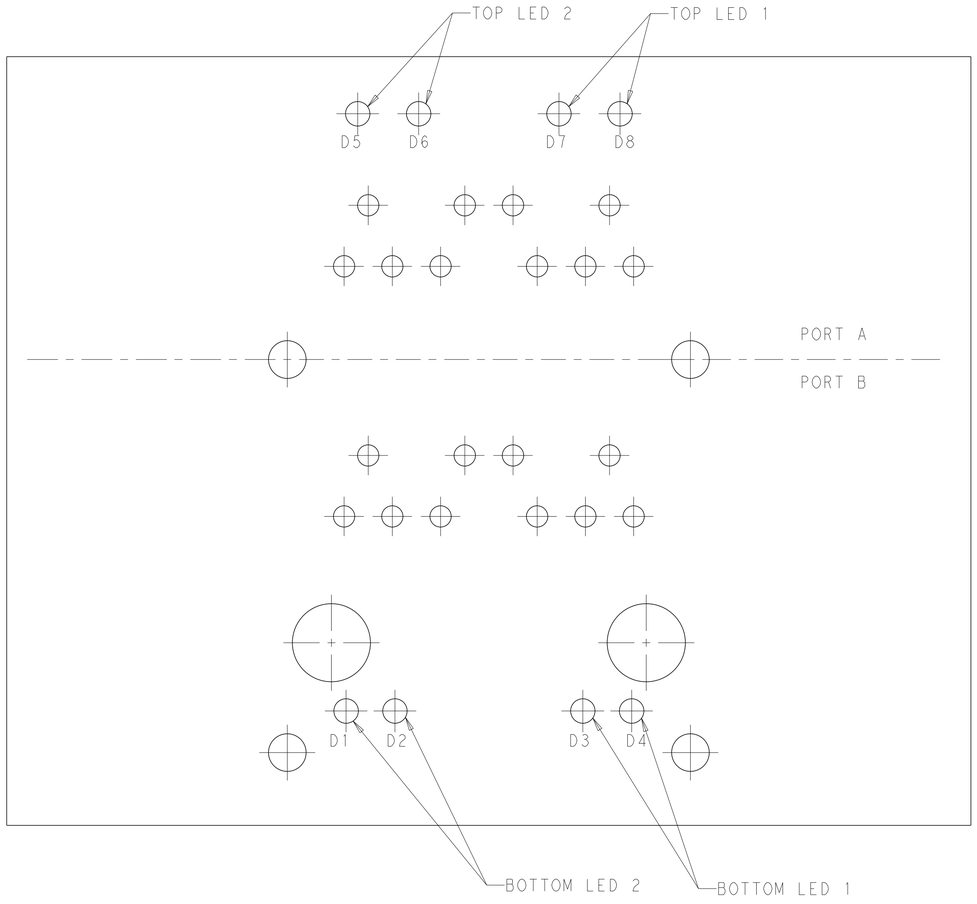


SUGGESTED PANEL CUTOUT DIMENSIONS

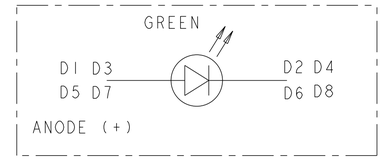
THIS PRODUCT HAS NOT COMPLETED
VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RICHARD QIAN 26JAN2010	trp CONNECTOR a bel group — DONGGUAN CHINA
		CHK FRANK LIU 26JAN2010	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±- 2 PLC ±0.25 3 PLC ±- 4 PLC ±- ANGLES ±-	APVD LIJUN RAO 26JAN2010	MODEL NAME model_name1 model_name2 — DESC 2X1 MAG45(TM),GIGABIT S8G9IET CIRCUIT
PRODUCT SPEC -	APPLICATION SPEC -	SIZE A1 — CAGE CODE — DRAWING NO C-1840934 — RESTRICTED TO -	
CUSTOMER DRAWING		SCALE NTS — SHEET 3 OF 4 — REV 5	

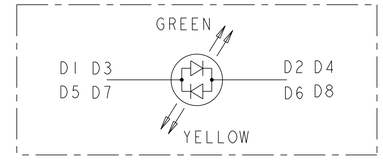
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SINGLE COLOR LED



BI-COLOR LED



LED HOLE DESIGNATIONS AND PORT ASSIGNMENT
VIEWED FROM COMPONENT SIDE
SCALE 8:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RICHARD QIAN 26JAN2010	trp CONNECTOR a bel group — DONGGUAN CHINA
		CHK FRANK LIU 26JAN2010	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±- 2 PLC ±0.25 3 PLC ±- 4 PLC ±- ANGLES ±-	APVD LIJUN RAO	MODEL NAME model_name1 model_name2
		DESC - 2X1 MAG45(TM),GIGABIT S8G9IET CIRCUIT	
PRODUCT SPEC -	APPLICATION SPEC -	SIZE A1 / CAGE CODE / DRAWING NO C-1840934	RESTRICTED TO -
CUSTOMER DRAWING		SCALE NTS / SHEET 4 OF 4	REV 5