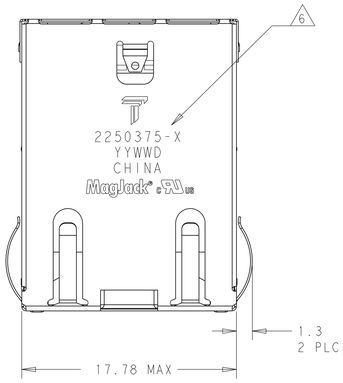
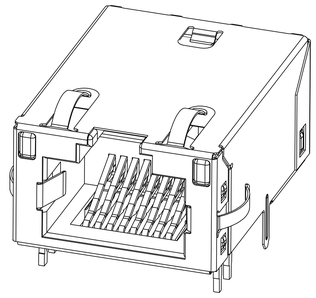
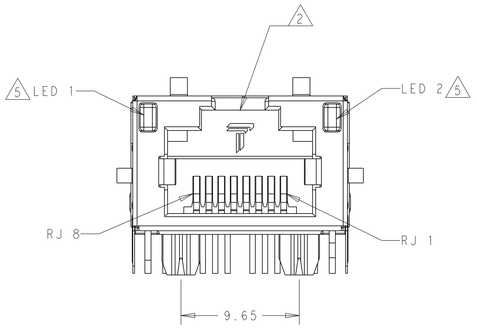
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

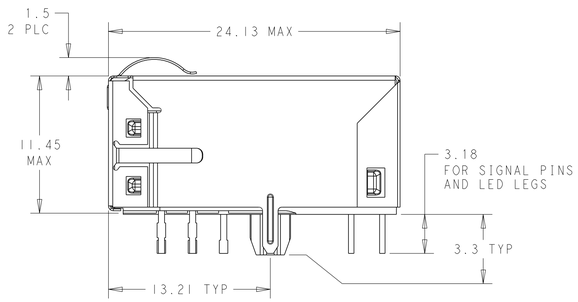
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

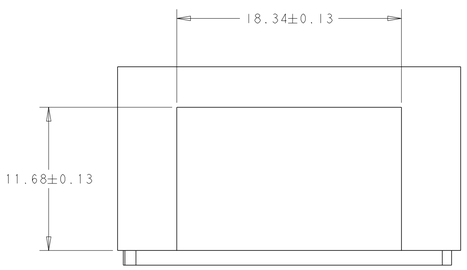
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	2	SEE LAST SHEET	16SEP2019	TRY	TY

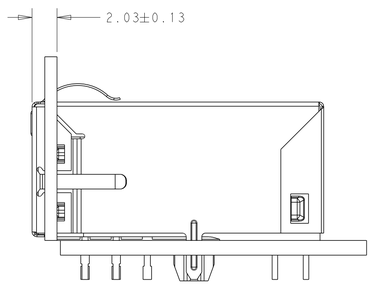












SUGGESTED PANEL CUTOUT

1. MATERIALS:
   - HOUSING: THERMOPLASTIC FLAMMABILITY, RATING, UL 94V-0
   - SHIELD: STAINLESS STEEL 0.15mm THICK, PREPLATED WITH 0.76 um MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST DIPPED WITH 4um MIN. TIN.
   - MOD JACK CONTACTS: 0.3mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, WITH 0.76um MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
   - LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 0.5mm X 0.5mm CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03um MIN. SILVER PLATE OVER 1.02um MIN. NICKEL OVER 1.02um MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05um MIN. MATTE TIN.

2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.

3. MAGNETICS
   APPLICATION: 2.5G BASE-T
   IMPEDANCE: 100 OHMS
   TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
   OPEN CIRCUIT INDUCTANCE (OCL):
   ALL CHANNELS 180uH MIN @ 100KHz, 0.1 VRMS WITH 8mA DC BIAS FROM 0°C TO 70°C,
   ALL FOUR PAIRS BI-DIRECTIONAL
   PERFORMANCE @ 25°C: PLEASE REFER TO SEPERATE SHEET
   ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC

4. OPERATING TEMPERATURE: FROM 0°C TO 70°C

5. LED IS WITH CONSTANT CURRENT AT APPROX 20mA.
   LED COLOR: DONINANT WAVELENGTH(λD), GREEN = 568±5nm TYP. at IF=20mA
   FORWARD VOLTAGE(VF), GREEN 2.2V TYP. at IF=20mA.
   DONINANT WAVELENGTH(λD), YELLOW = 588±5nm TYP. at IF=20mA
   FORWARD VOLTAGE(VF), YELLOW 2.1V TYP. at IF=20mA.
   DONINANT WAVELENGTH(λD), ORANGE = 605±5nm TYP. at IF=20mA
   FORWARD VOLTAGE(VF), ORANGE 2.1V TYP. at IF=20mA.

6. TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

7. PART SHOULD BE COMPLIANT TO WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX

TRAY	ORANGE	GREEN	YELLOW	2250375-1
PACKAGE METHOD	16 → 15	16 → 17	14 → 13	PART NO.
	LED 1		LED 2	

THIS DRAWING IS A CONTROLLED DOCUMENT.
AND COMPLIANT TO ASME Y14.5M

DIMENSIONS: mm

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

PRODUCT SPEC: 108-104004
APPLICATION SPEC: -

DWN 23FEB2016 TOWER YU / FRANK LIU
CHK 23FEB2016 BILL LIU
APVD 23FEB2016 TONY YUAN

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE Non-PoE

DESC: IXI IQT01 2.5G TAB UP LOW PROFILE W/ LED

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		C-2250375	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 3 | REV. 2

Please read our datasheet & drawing disclaimer here.

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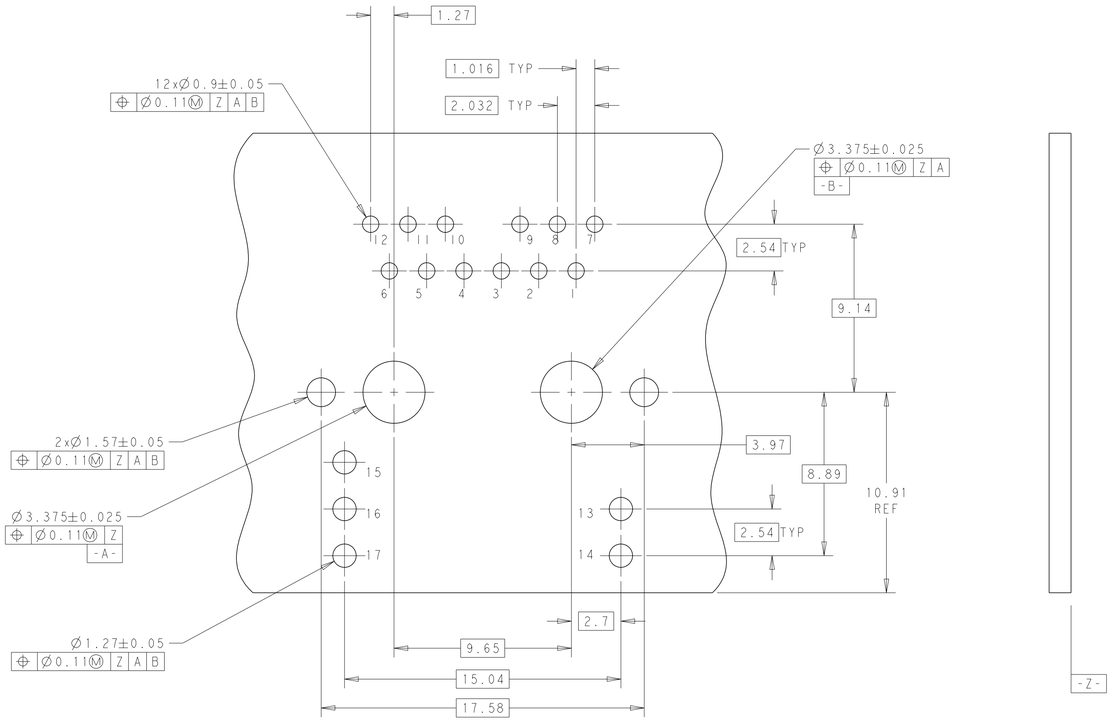
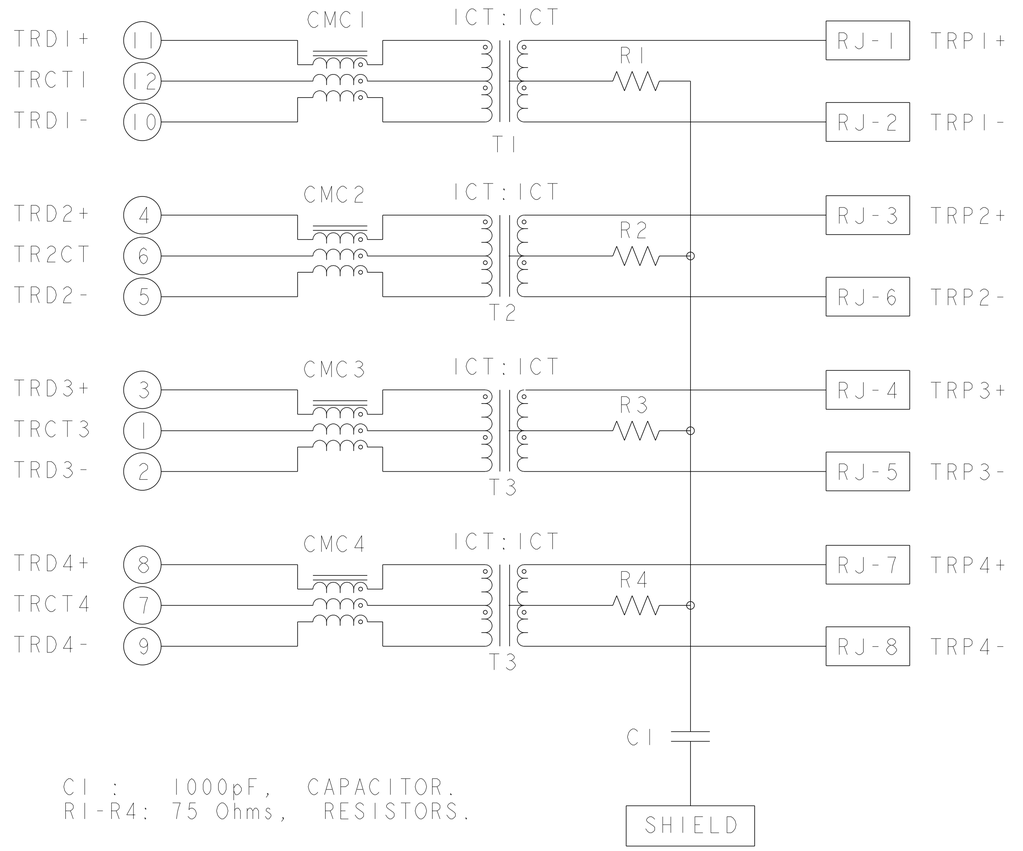


SUGGESTED PCB LAYOUT

IQT01 2.5G CIRCUIT △3



C1 : 1000pF, CAPACITOR.
R1-R4: 75 Ohms, RESISTORS.

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M	DWN 23FEB2016 TOWER YU / FRANK LIU	trp CONNECTOR a bel group	DONGGUAN CHINA
DIMENSIONS: mm	CHK 23FEB2016 BILL LIU		
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25, 1 PLC ±0.25, 2 PLC ±0.25, 3 PLC ±, 4 PLC ±, ANGLES ±.	APVD 23FEB2016 TONY YUAN	DESC: IXI IQT01 2.5G TAB UP LOW PROFILE W/ LED	
PRODUCT SPEC: 108-104004	APPLICATION SPEC: -	MODEL NAME: MAGJACK SINGLE Non-PoE	SIZE A1 / CAGE CODE / DRAWING NO: C-2250375 / RESTRICTED TO: -
CUSTOMER DRAWING	SCALE 4:1	SHEET 2 OF 3	REV 2

xxxxx

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2250375_C					STOCK DISPOSITION			
					A: CONTINUE AS IS B: REWORK C: SCRAP		D: USE OLD FIRST E: PARTS TO CONFORM F: OTHER	
REVISION HISTORY								
DATE	REV	CHANGES	REASON	APPROVAL	INVENTORY (A,B,C,D,E,F)	WORK IN PROCESS (A,B,C,F)	SUPPLIER ORDERS (A,E,F)	OPEN CUST ORDERS (A,E,F)
23FEB2016	1	INITIAL RELEASE	-	TONY YUAN	-	-	-	-
16SEP2019	2	SHEET 2, CORRECT CIRCUIT ID FROM GIGABIT TO 2.5G SHEET 2, SUGGESTED PCB LAYOUT: CHANGE DIM FROM Ø3.24 TO Ø3.375	DRAWING CLARIFICATION	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.
AND COMPLIANT TO ASME Y14.5M

DIMENSIONS: mm

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

PRODUCT SPEC: 108-104004
APPLICATION SPEC: -

DWN 23FEB2016 TOWER YU / FRANK LIU
CHK 23FEB2016 BILL LIU
APVD 23FEB2016 TONY YUAN

trp CONNECTOR a bel group
DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE Non-PoE

DESC: IXI IQT01 2.5G TAB UP LOW PROFILE W/ LED

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		C-2250375	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 3 OF 3 | REV 2

xxxxx