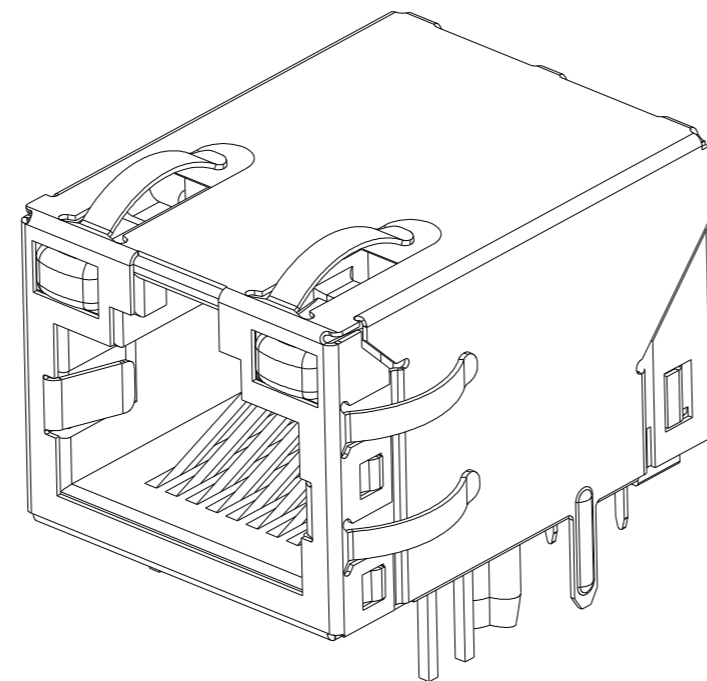
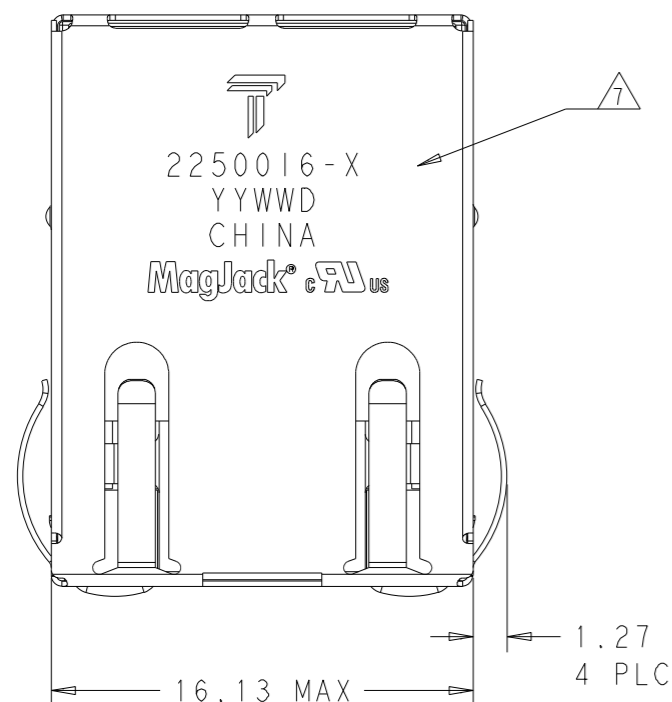


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

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				
#	DATE	DESCRIPTION	BY	APPV
2	31DEC2014	EC-1411035 COMPANY LOGO CHANGE	DP	TY



1. MATERIALS

- HOUSING: THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
- SHIELD: BRASS 0.20mm THICK, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 2.54um MIN SAC SOLDER.
- CONTACTS: PHOSPHOR BRONZE 0.46mm X 0.30mm, PHOSPHOR BRONZE, 1.27um MIN NICKEL UNDERPLATE, WITH 1.27um MIN GOLD PLATING AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS, OR 1.27um MIN NICKEL UNDERPLATE, WITH 0.05um GOLD PLATING OVER 0.76um MIN PALLADIUM NICKEL PLATING AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
- SOLDER TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE, 3um TIN PLATE
- 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 AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

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

3 MAGNETICS

- APPLICATION: 10/100 BASE-T, EXTENDED TEMPERATURE
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
- OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO +85°C, TX AND RX
- PERFORMANCE @ 25°C:
- INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
- RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
- 18-20LOG(f/30)dB MIN FROM 30.1MHz TO 60MHz
- 12dB MIN FROM 60.1MHz TO 80MHz
- 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 FOR 60 SECONDS WITH A RISE TIME OF 500 V/SEC

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

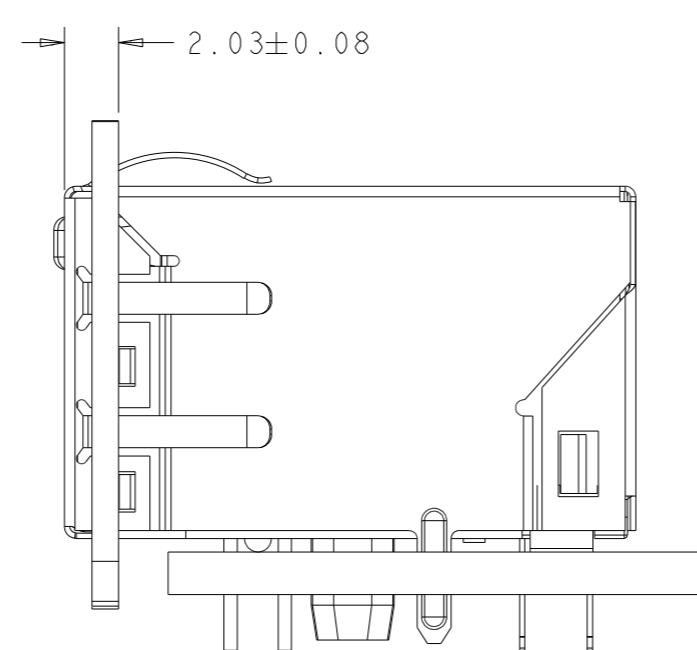
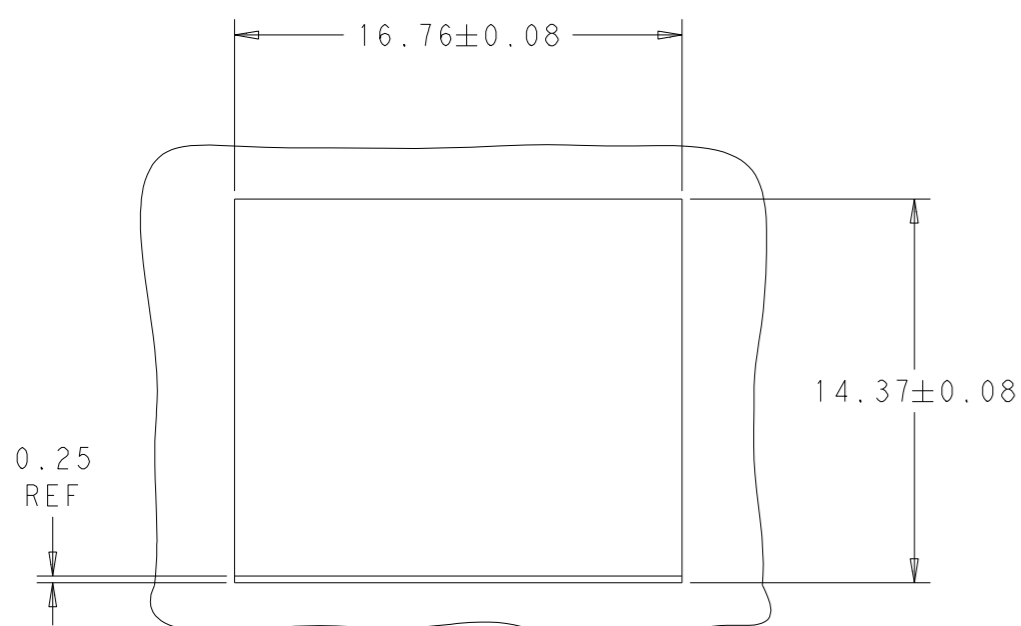
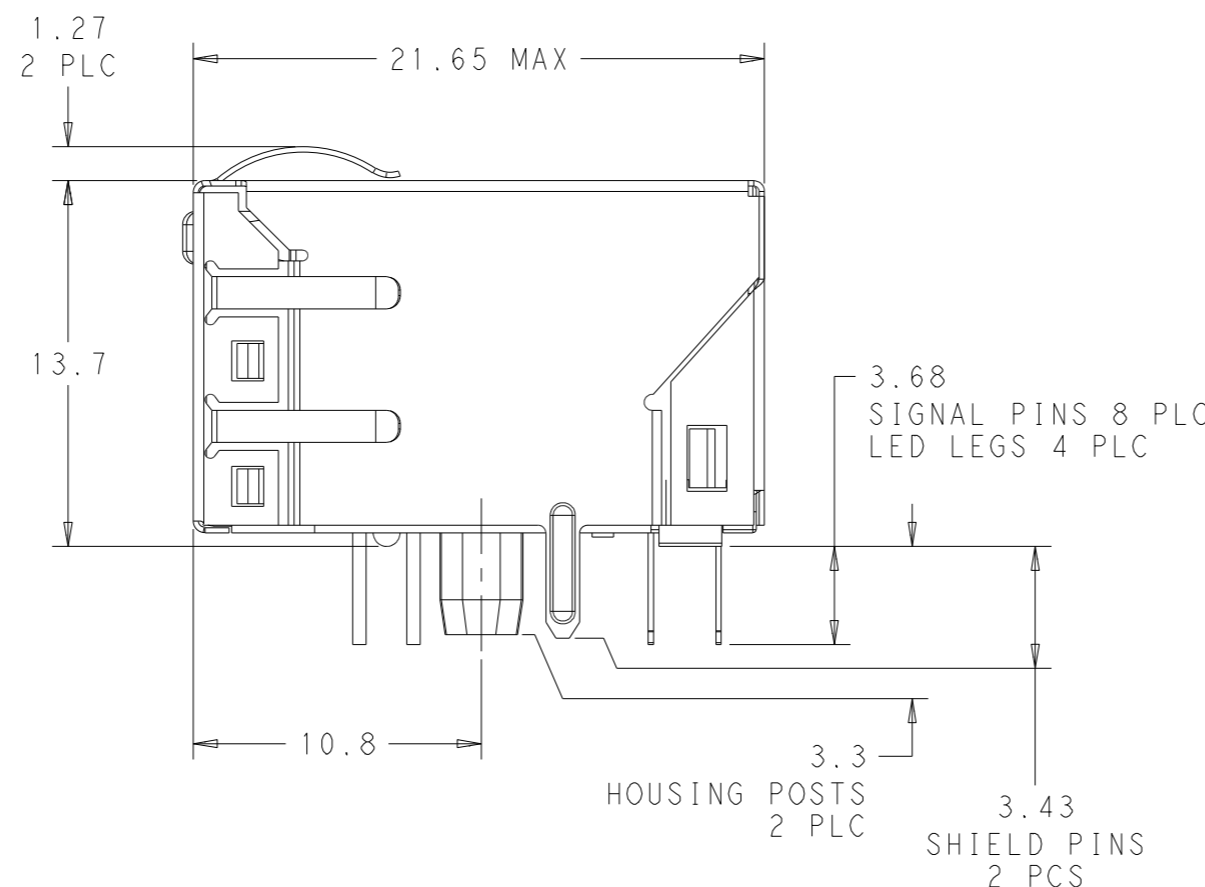
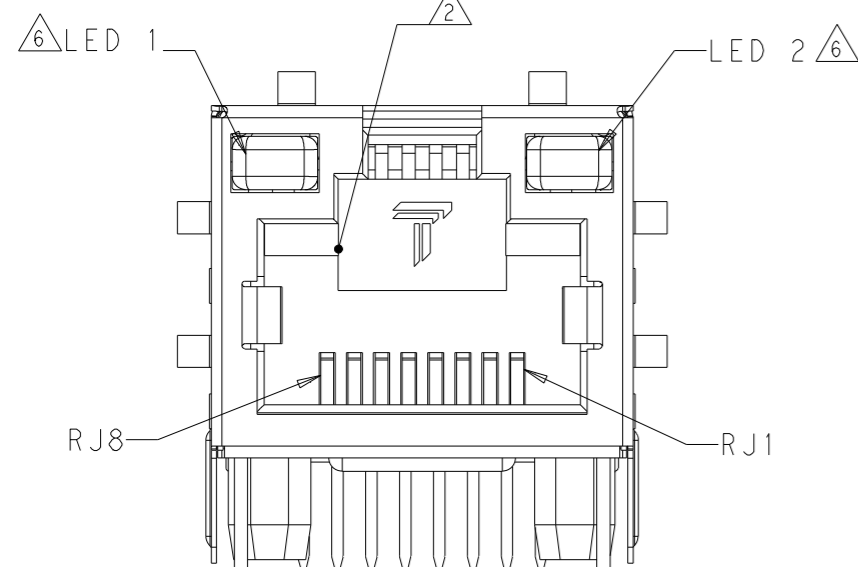
5 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.

6 THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF RESISTORS.  
 IF LEADS WITHOUT 250 OHM RESISTORS. LEADS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA

- LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. AT IF = 20mA  
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF = 20mA  
 DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF = 20mA  
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF = 20mA
- IF LEADS WITH BUILT-IN 250 OHM RESISTORS. LEADS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA  
 LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. @ VF=5V  
 FORWARD CURRENT (IF): GREEN 12mA TYP @ VF = 5V  
 DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V  
 FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF = 5V

7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN. DATE CODE: YYWWD WHERE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1.

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

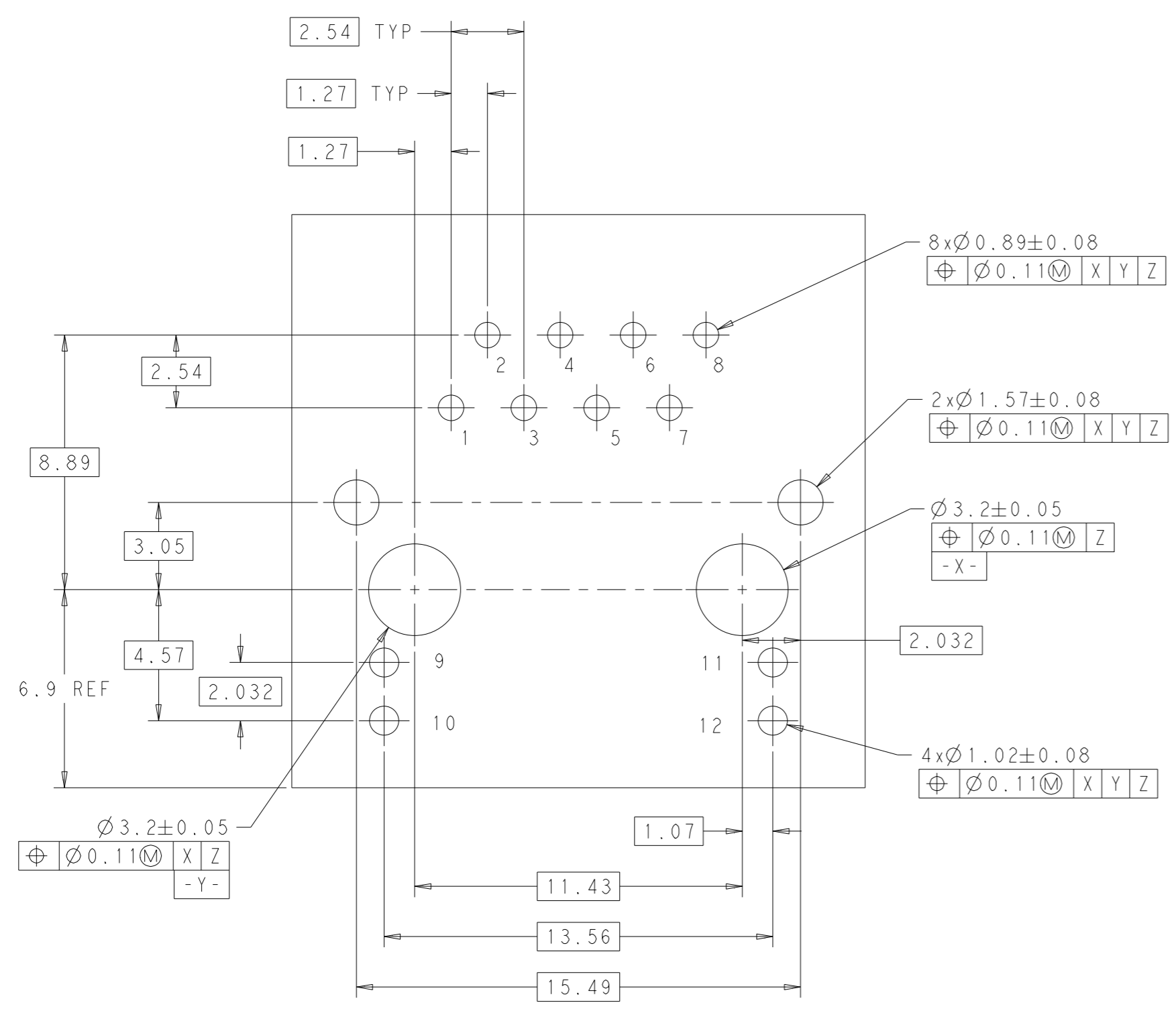


SUGGESTED PANEL CUTOUT

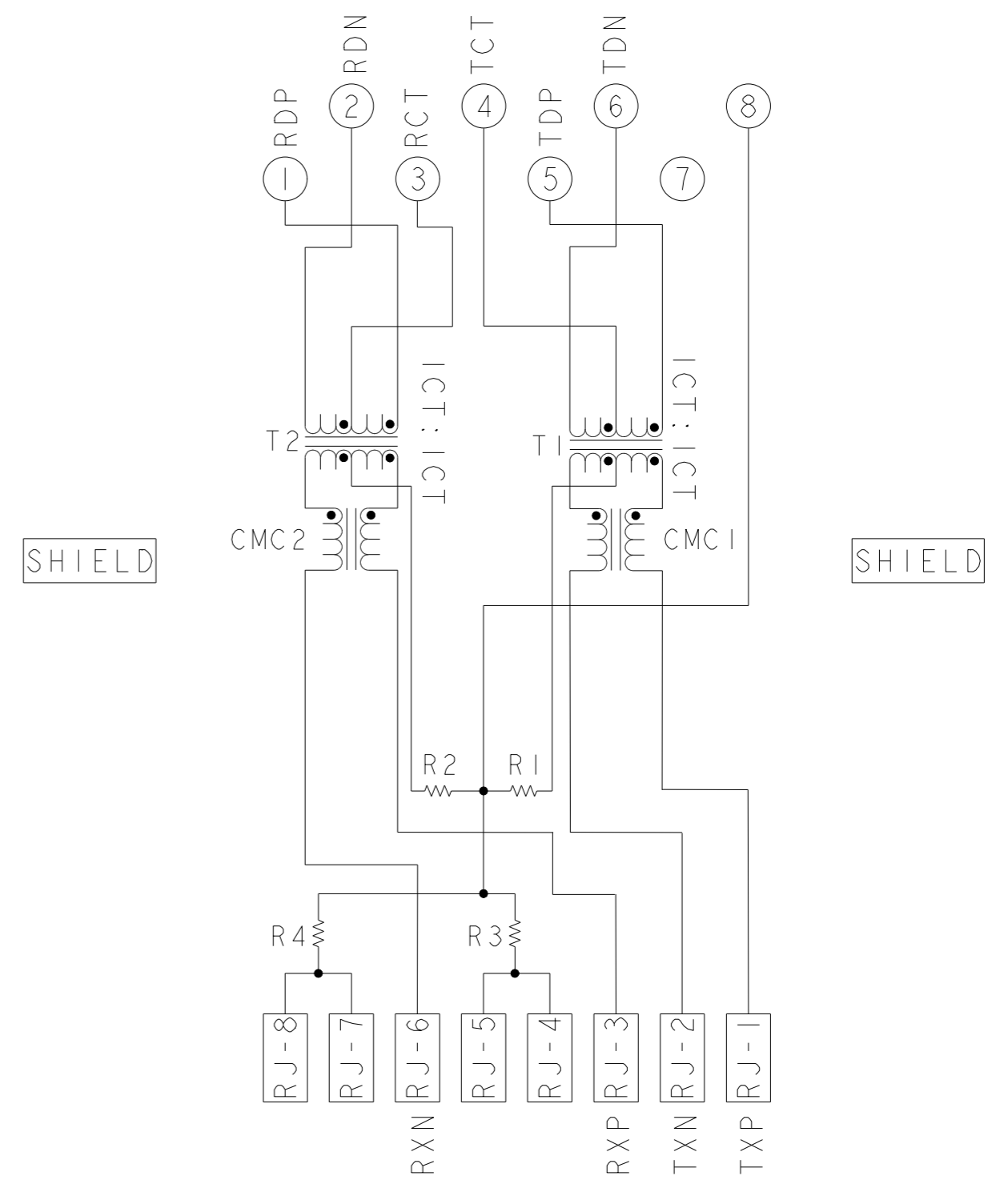
GREEN	-	YES	YELLOW	-	YES	2250016-2
GREEN	YELLOW	NO	GREEN	YELLOW	NO	2250016-1
9	10	250 OHMS RESISTOR	11	12	250 OHMS RESISTOR	PART NUMBER
LED 1			LED 2			

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU	15MAY2013														
DIMENSIONS: mm		CHK TOWER YU / FRANK LIU	15MAY2013														
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPV TONY YUAN	15MAY2013														
<table border="1"> <tbody> <tr> <td>0 PLC</td> <td>±0.25</td> </tr> <tr> <td>1 PLC</td> <td>±0.25</td> </tr> <tr> <td>2 PLC</td> <td>±0.25</td> </tr> <tr> <td>3 PLC</td> <td>±0.25</td> </tr> <tr> <td>4 PLC</td> <td>±0.25</td> </tr> <tr> <td>ANGLES</td> <td>±</td> </tr> <tr> <td>APPLICATION SPEC</td> <td></td> </tr> </tbody> </table>		0 PLC	±0.25	1 PLC	±0.25	2 PLC	±0.25	3 PLC	±0.25	4 PLC	±0.25	ANGLES	±	APPLICATION SPEC		TRP CONNECTOR a bel group DONGGUAN CHINA	
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ANGLES	±																
APPLICATION SPEC																	
PRODUCT SPEC		MODEL NAME MAGJACK															
		DESC IXI 7141ET 10/100 TAB UP W/ LED															
		SIZE A 1	RESTRICTED TO														
		CAGE CODE C=2250016															
		CUSTOMER DRAWING	SCALE 4:1 SHEET 1 OF 3 REV 2														

# 7141ET 10/100 CIRCUIT



SUGGESTED PCB LAYOUT




R1-R4 = 75 Ohms, RESISTORS

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU 15MAY2013	 <b>trp</b> CONNECTOR a bel group DONGGUAN CHINA
DIMENSIONS: mm		CHK TOWER YU/ FRANK LIU 15MAY2013	
		APP'D TONY YUAN 15MAY2013	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME MAGJACK	
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ±°		DESC IXI 7141ET 10/100 TAB UP W/ LED	
PRODUCT SPEC		SIZE A 1	
APPLICATION SPEC		CAGE CODE C=2250016	
CUSTOMER DRAWING		RESTRICTED TO -	
		SCALE 4:1 SHEET 2 OF 3 REV 2	

C_2250016					STOCK DISPOSITION			
REVISION HISTORY					A: CONTINUE AS IS		D: USE OLD FIRST	
					B: REWORK		E: PARTS TO CONFORM	
					C: SCRAP		F: OTHER	
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)
15MAY2013	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-
31DEC2014	2	EC-1411035 COMPANY LOGO CHANGE	MARKET REQUEST	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.

DRW	ROY LIU	15MAY2013
CHK	TOWER YU/ FRANK LIU	15MAY2013
APP'D	TONY YUAN	15MAY2013



**trp** CONNECTOR DONGGUAN CHINA  
a bel group

MODEL NAME	MAGJACK	DESC	IXI 7141ET 10/100 TAB UP W/ LED
SIZE	A1	CAGE CODE	
DRAWING NO	C=2250016	RESTRICTED TO	-
PRODUCT SPEC	SINGLE NON-POE	CUSTOMER DRAWING	

SCALE 4:1 SHEET 3 OF 3 REV 2