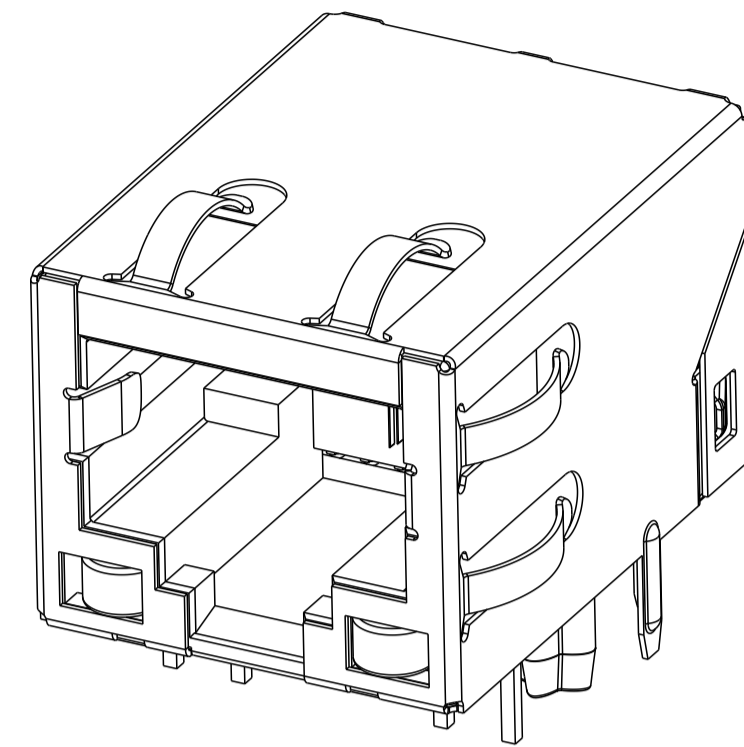
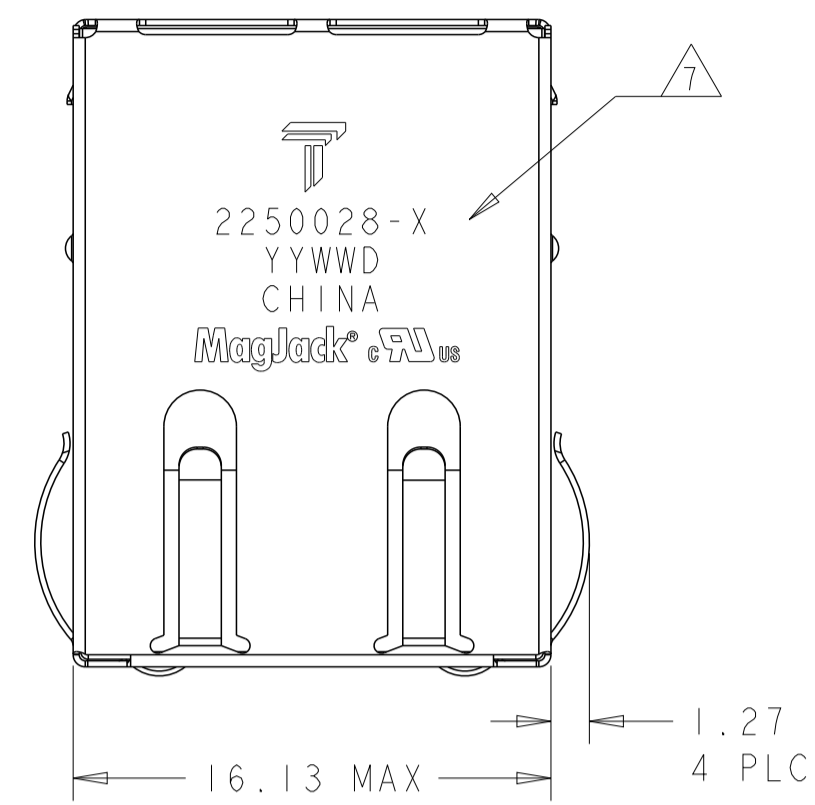


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

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	LTN	DESCRIPTION	DATE	OWN APVD
3		SEE LAST SHEET	14JAN2015	RL 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.
- 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
- 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 0°C TO +70°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

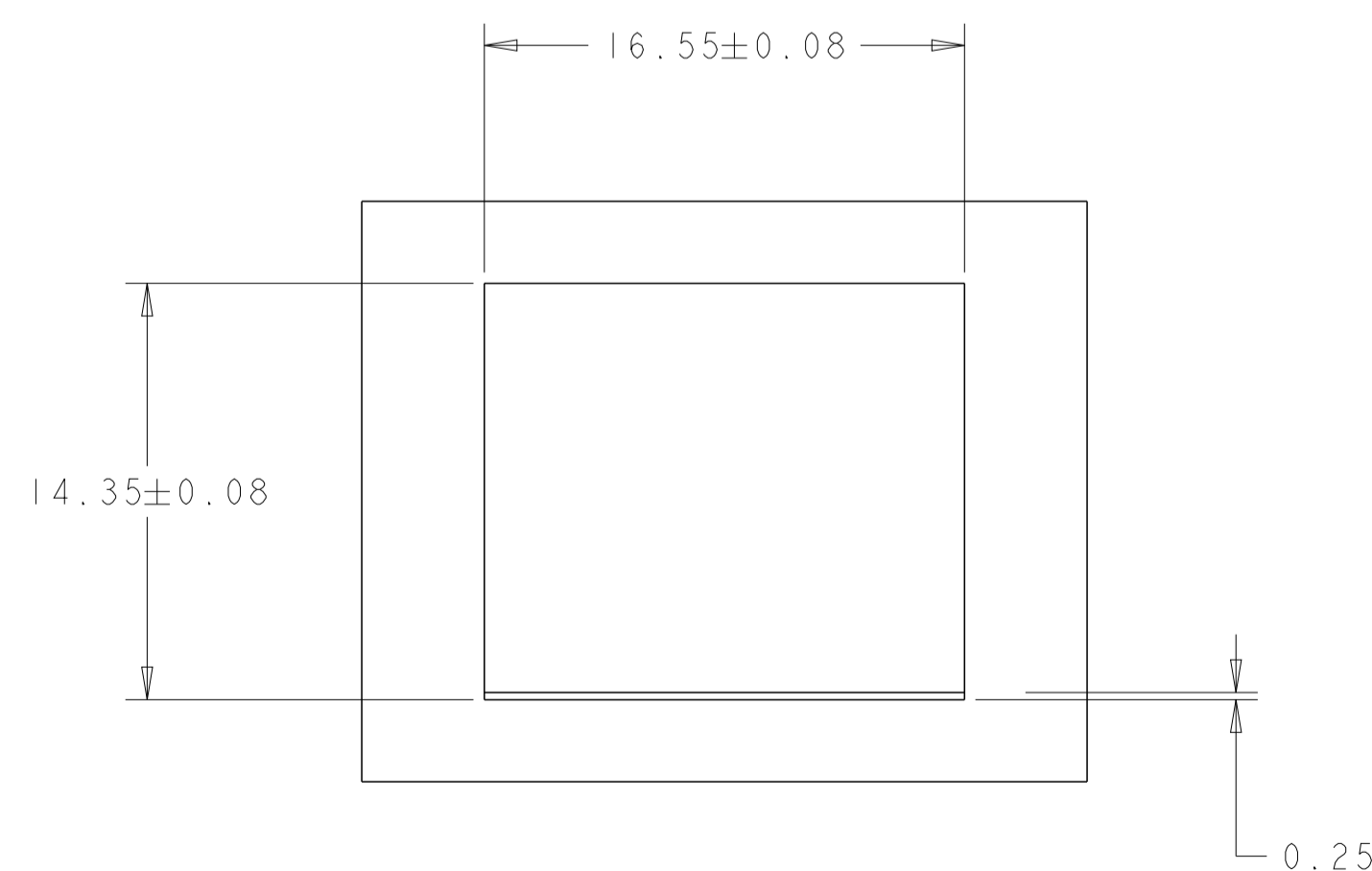
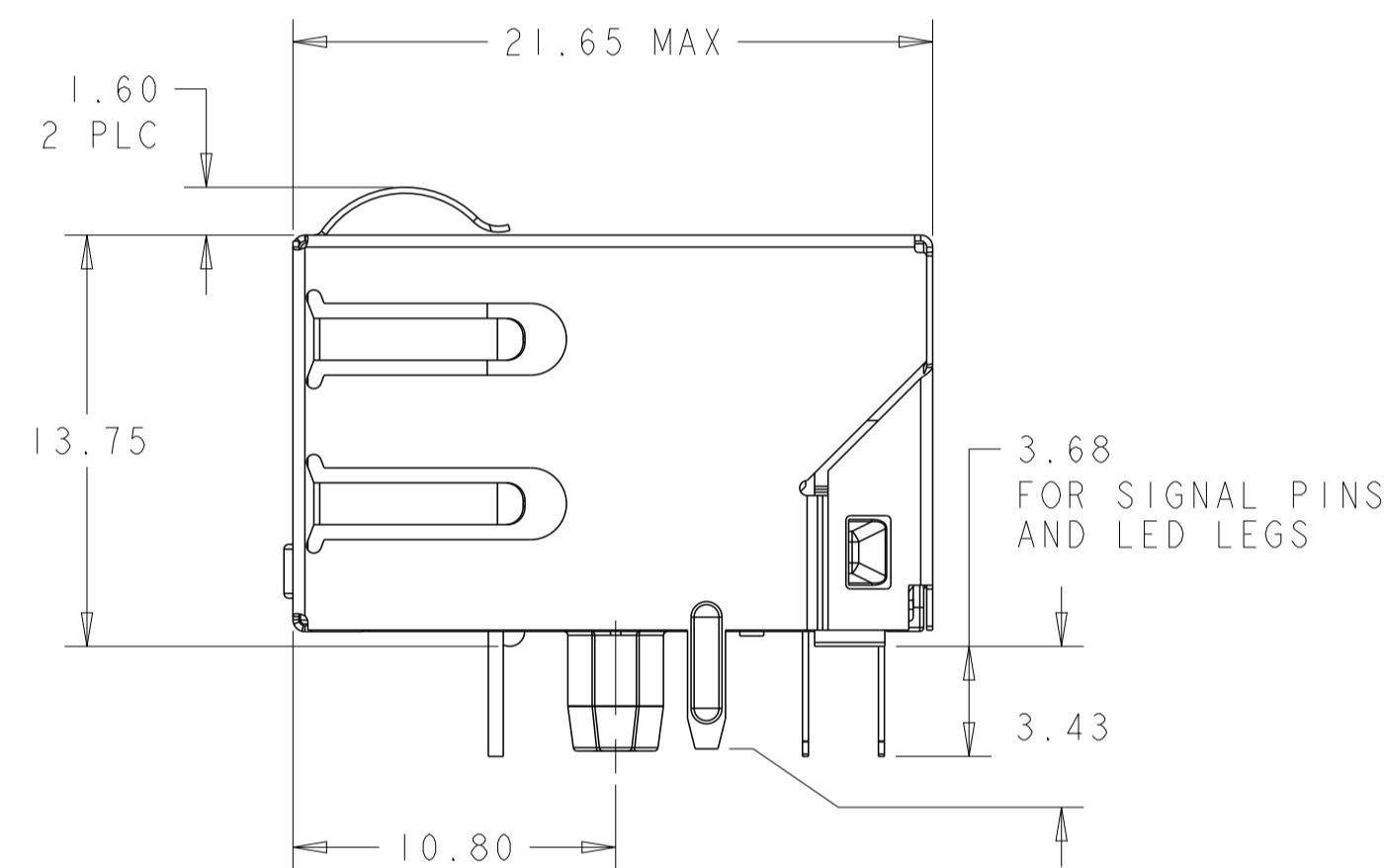
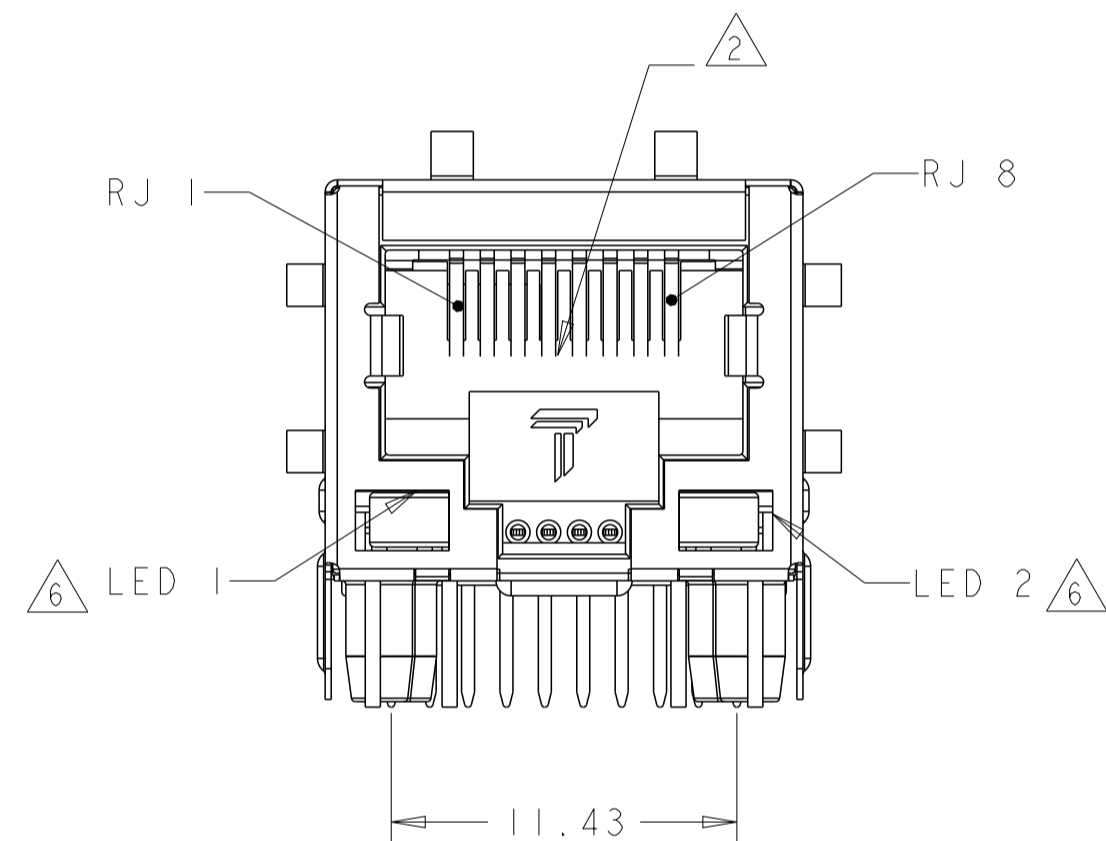
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

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

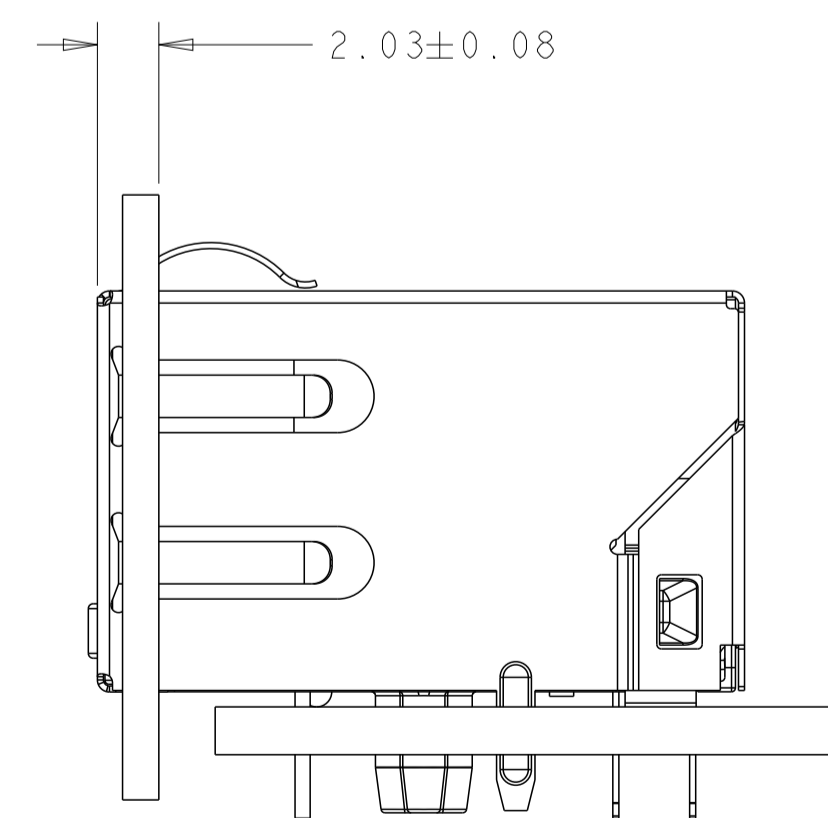
6. THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF RESISTORS.
 IF LEADS WITHOUT 250 OHM RESISTORS, LEADS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
 LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. AT IF = 20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF = 20mA
 DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF = 20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF = 20mA
 IF LEADS WITH 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.

8. THESE PARTS ARE 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.

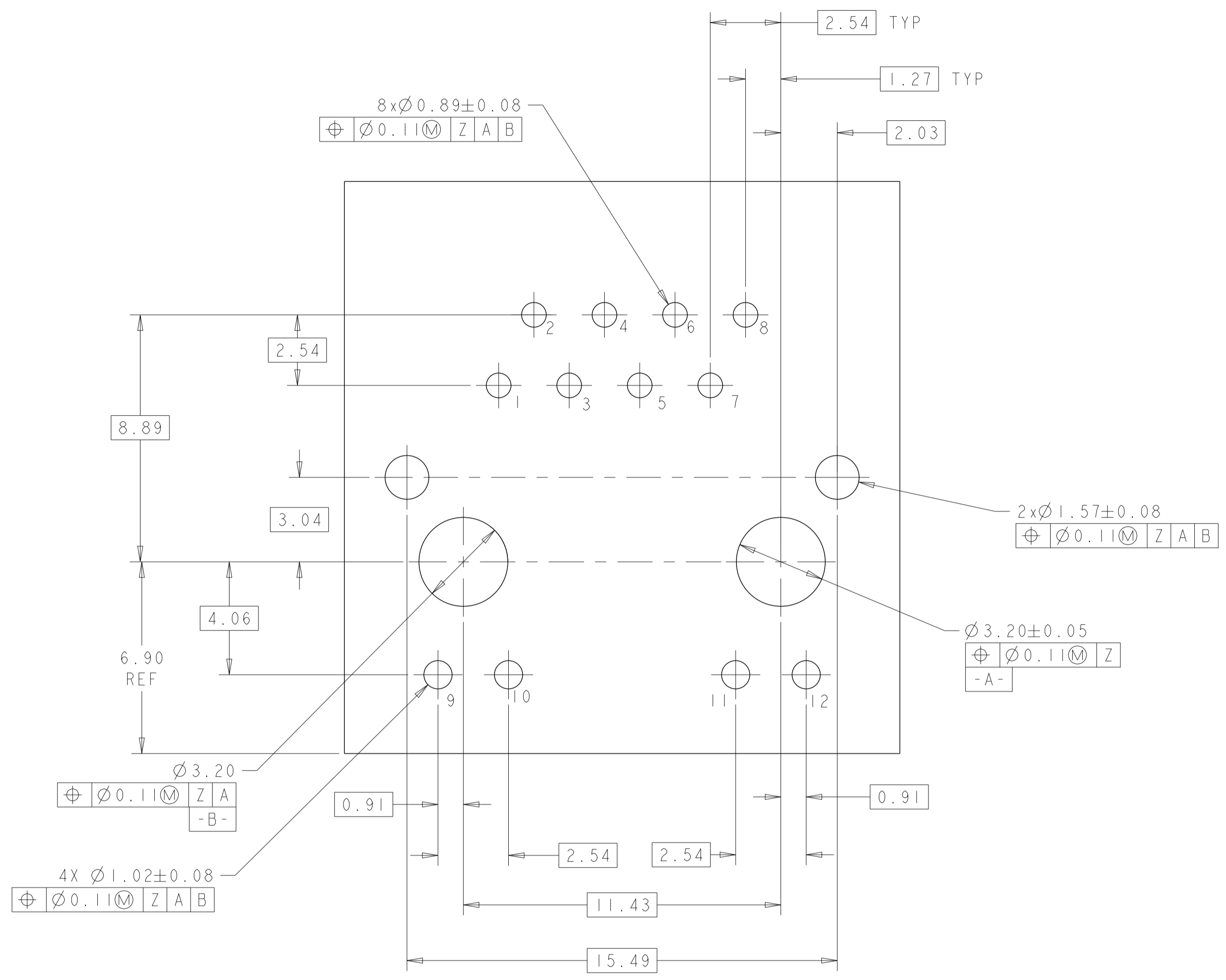


SUGGESTED PANEL OPENING

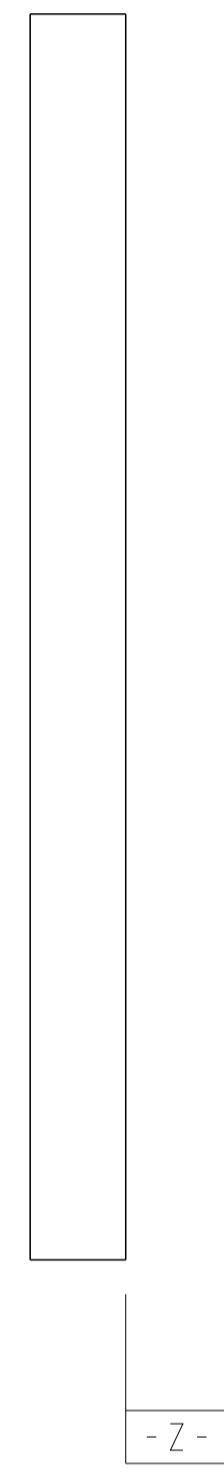


LED 1	LED 2	250 OHMS RESISTOR	LED 1	LED 2	250 OHMS RESISTOR	PART NUMBER
GREEN	YELLOW	NO	GREEN	YELLOW	NO	2250028-6
GREEN	-	YES	GREEN	-	YES	2250028-5
GREEN	-	NO	YELLOW	-	NO	2250028-4
GREEN	-	YES	YELLOW	-	YES	2250028-3
GREEN	-	NO	GREEN	-	NO	2250028-2
GREEN	YELLOW	NO	GREEN	-	NO	2250028-1

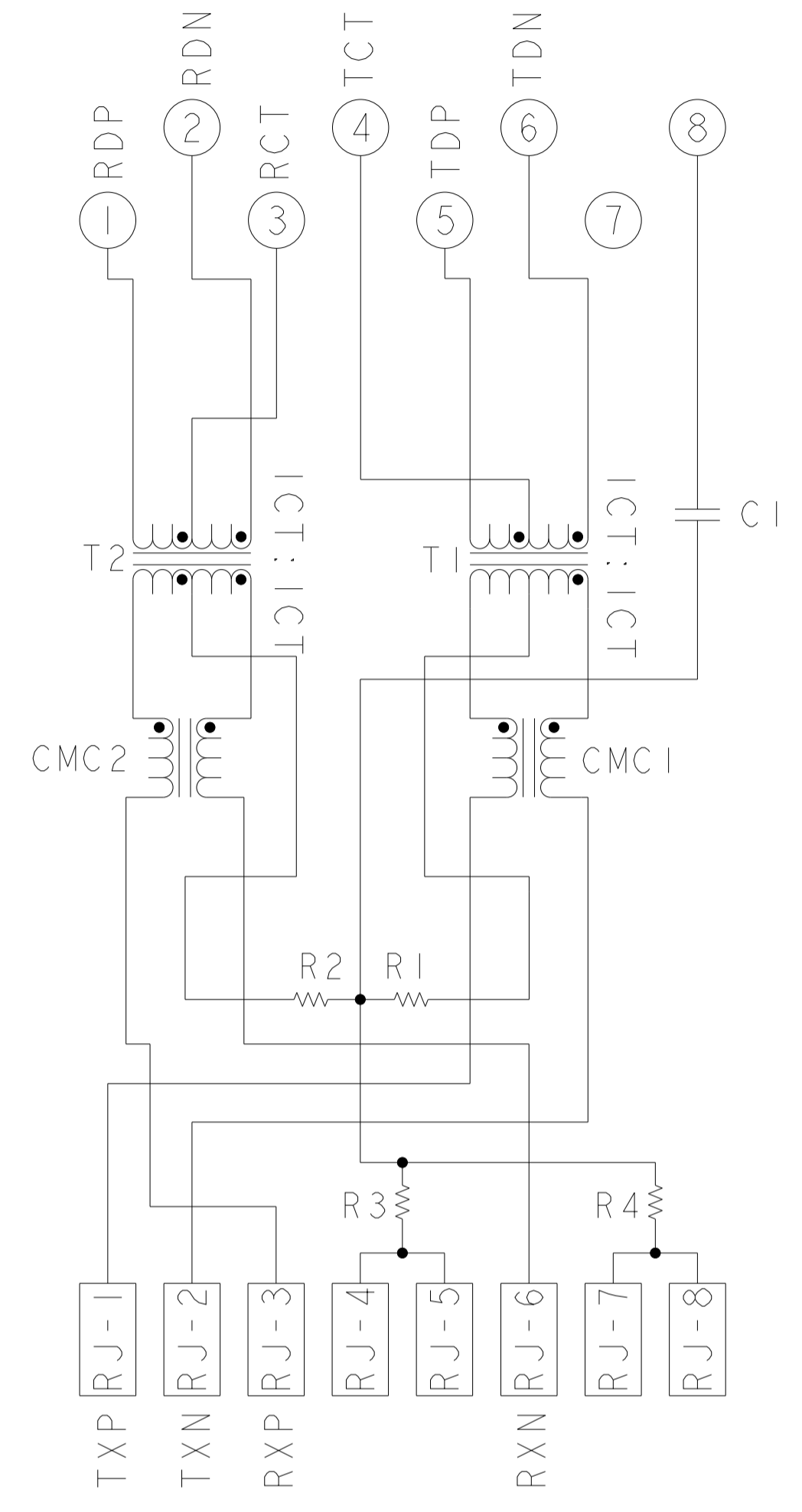
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: ROY LIU 31MAY2013	DONGGUAN CHINA
DIMENSIONS: mm		CHK: TOWER YU/FRANK LIU 31MAY2013	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: TONY YUAN 31MAY2013	MODEL NAME: MAGJACK
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±° APPLICATION SPEC ±°		DESC: IX1 4146 10/100 TAB DOWN W/ LED	RESTRICTED TO: -
PRODUCT SPEC: 108-104004		SIZE: A1	SCALE: 4:1 SHEET 1 OF 3 REV 3



SUGGESTED PCB LAYOUT
 COMPONENT SIDE




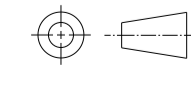
4146 10/100 BASE-T CIRCUIT



C1 = 1000 pF, 2kV CAPACITOR.
 R1-R4 = 75 OHMS, RESISTORS.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: ROY LIU 31MAY2013 CHK: TOWER YU/FRANK LIU 31MAY2013 APVD: TONY YUAN 31MAY2013	DONGGUAN CHINA
DIMENSIONS: mm 	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±° APPLICATION SPEC ±°	MODEL NAME: MAGJACK DESC: SINGLE Non-PoE	
PRODUCT SPEC: 108-104004		CUSTOMER DRAWING	SCALE: 4:1 SHEET: 2 OF 3 REV: 3

C_2250028						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)	
31MAY2013	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-	
09AUG2013	2	1.ADD 2250028-6 2.DELETE RESISTOR FROM LED FOR 2250028-1	MARKET REQUIREMENT	TONY YUAN	-	-	-	-	
14JAN2015	3	EC-1411035 COMPANY LOGO CHANGE	MARKET REQUIREMENT	TONY YUAN	-	-	-	-	

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU	31MAY2013	 trp CONNECTOR <small>a bel group</small>	DONGGUAN CHINA	
DIMENSIONS:		CHK TOWER YU/FRANK LIU	31MAY2013		MODEL NAME	DESC
mm		APVD TONY YUAN	31MAY2013		MAGJACK	IX1 4146 10/100 TAB DOWN W/ LED
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC ±		PRODUCT SPEC 108-104004			SIZE	CAGE CODE
		CUSTOMER DRAWING		SCALE	RESTRICTED TO	
SCALE 4:1		SHEET 3 OF 3		REV 3		