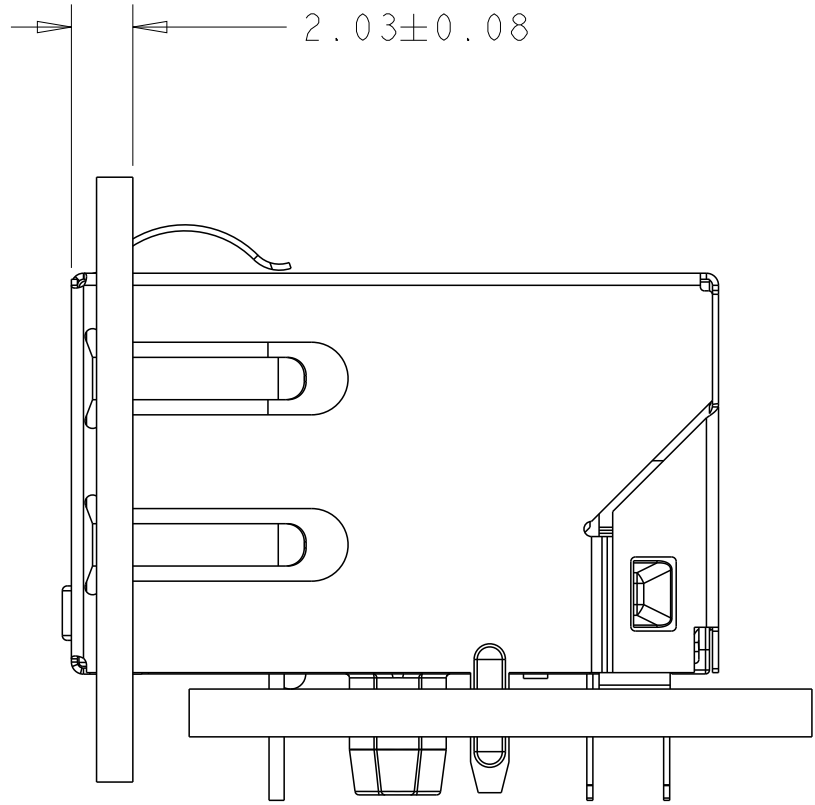
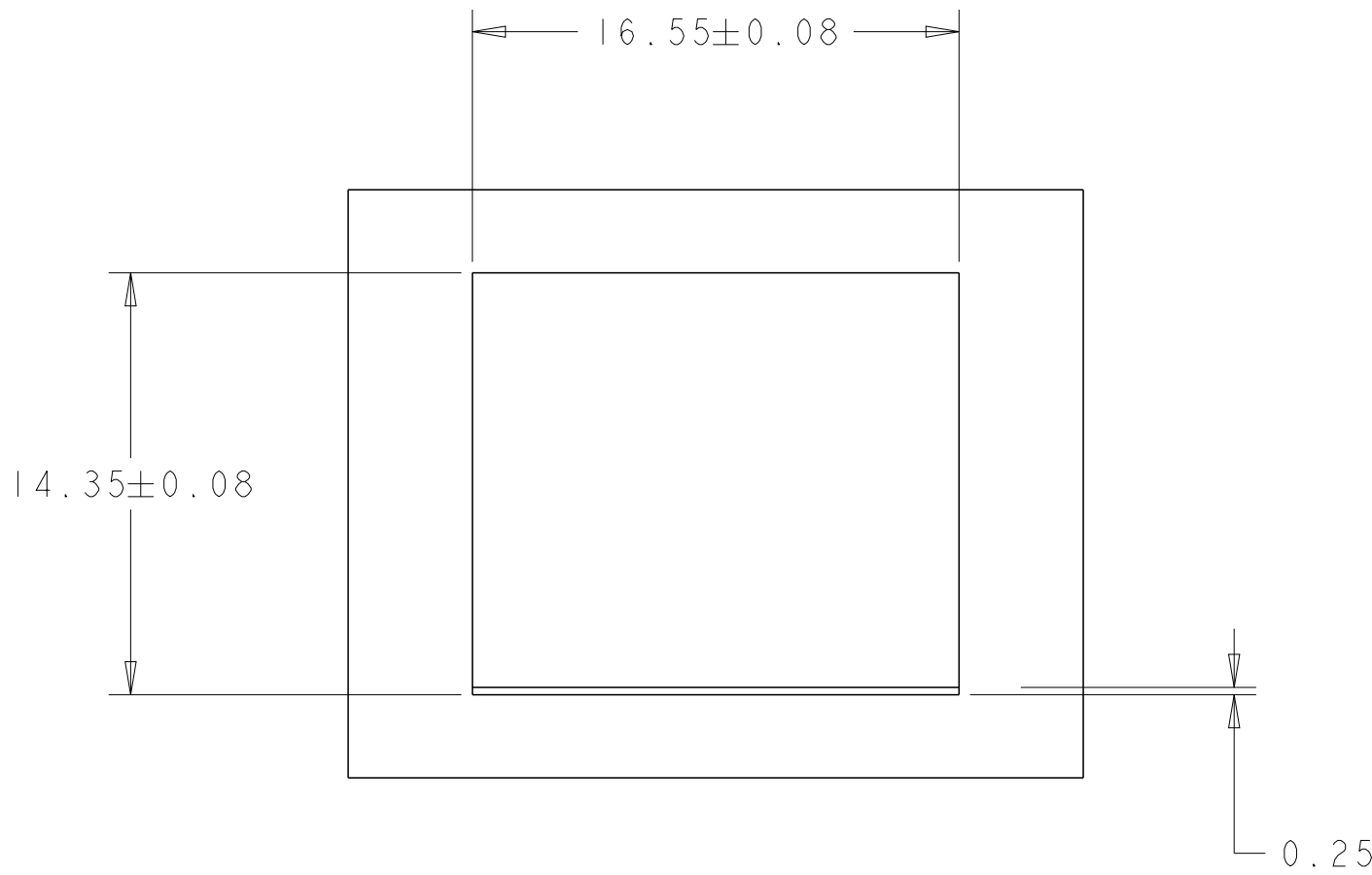
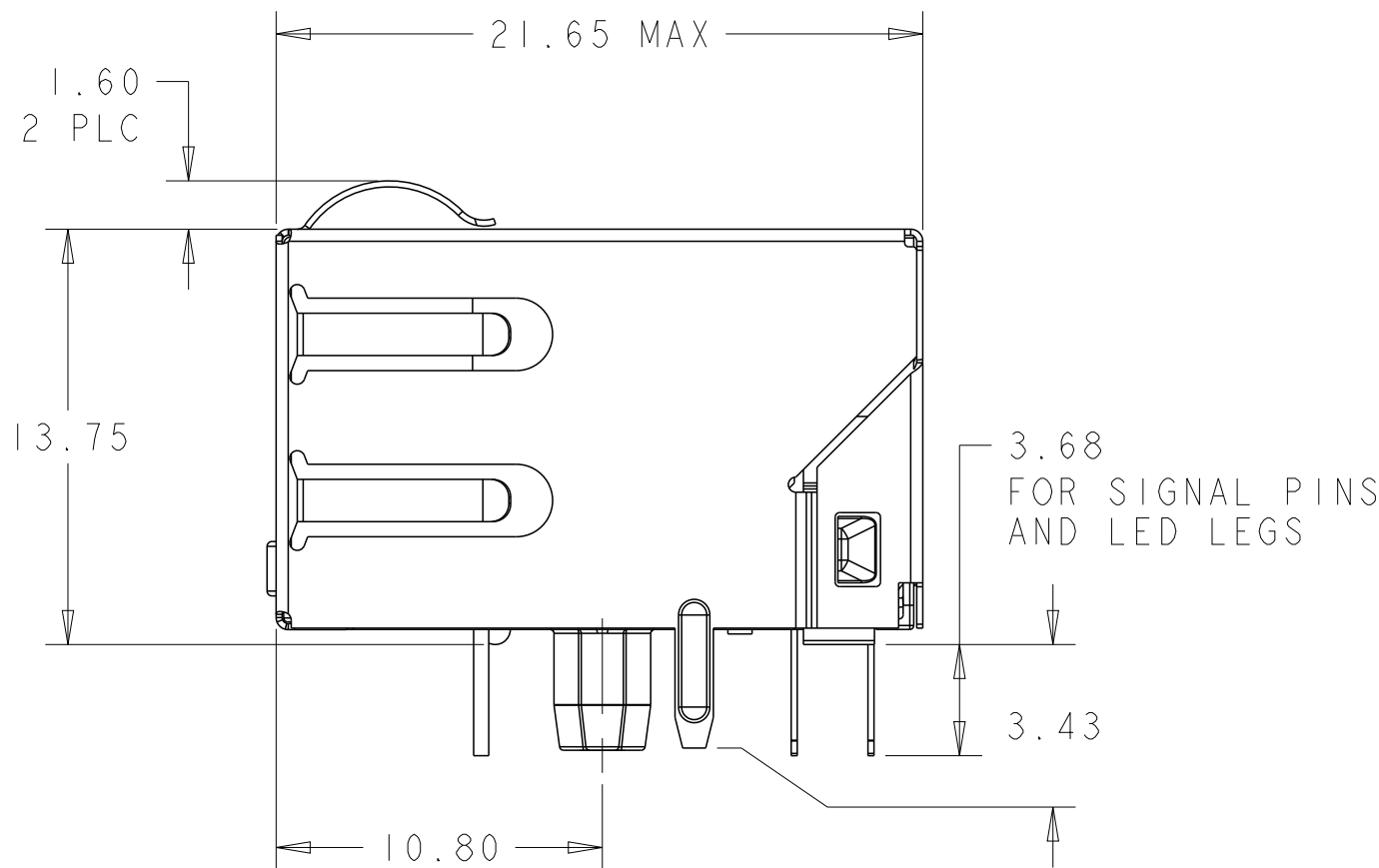
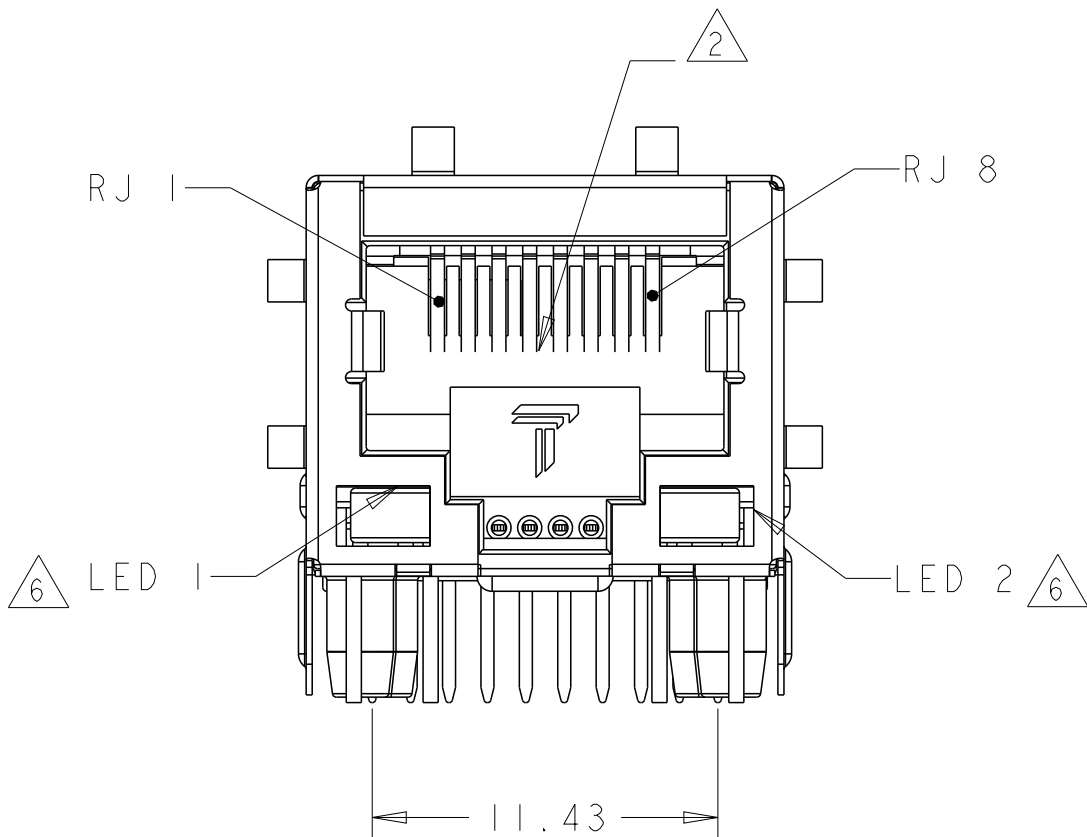
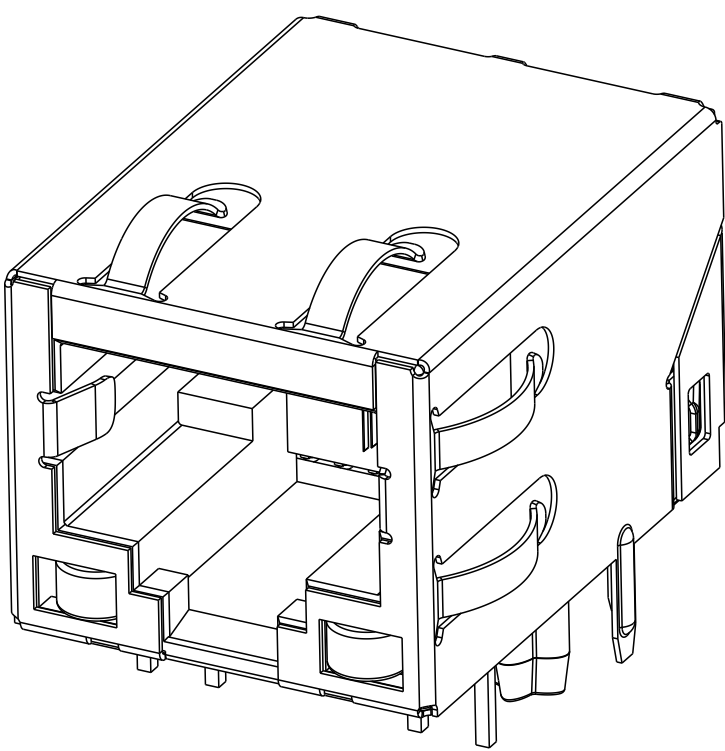
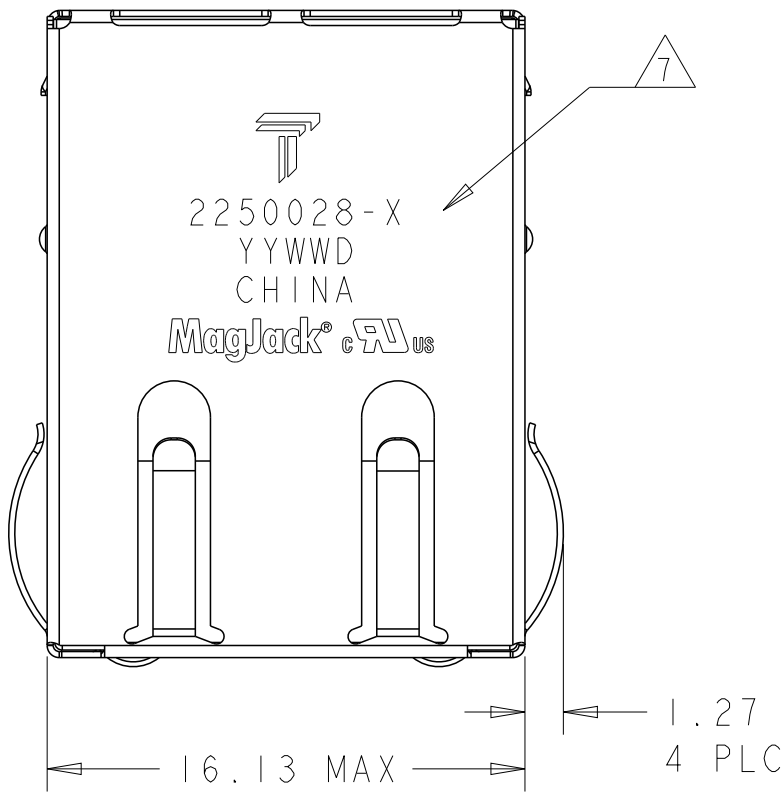




SUGGESTED PANEL OPENING

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: 0.25mmTHICK, 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

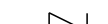
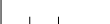
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

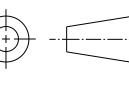
5 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.

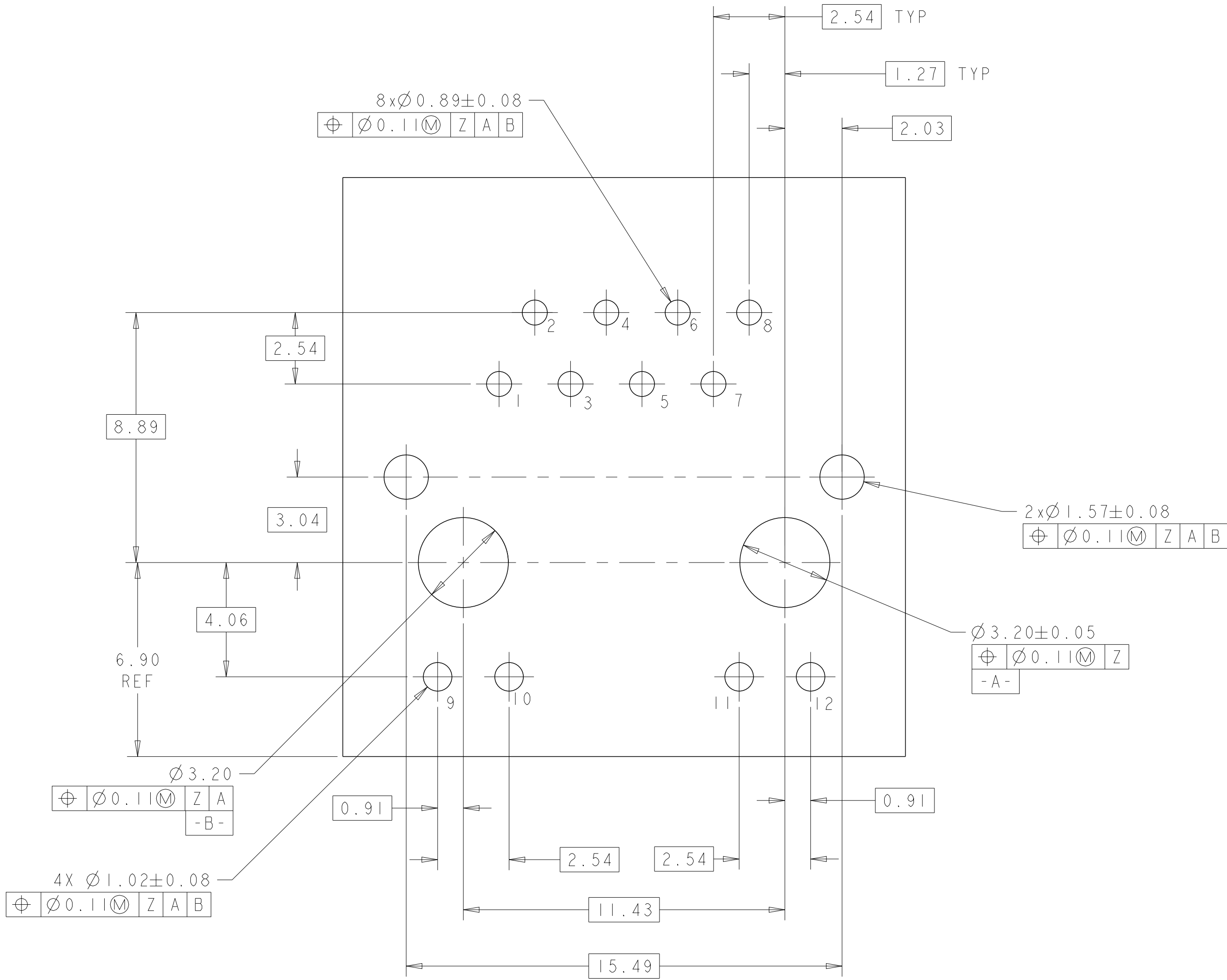
- 6 THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF RESISTORS. IF LEDS WITHOUT 250 OHM RESISTORS. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
- LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF =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

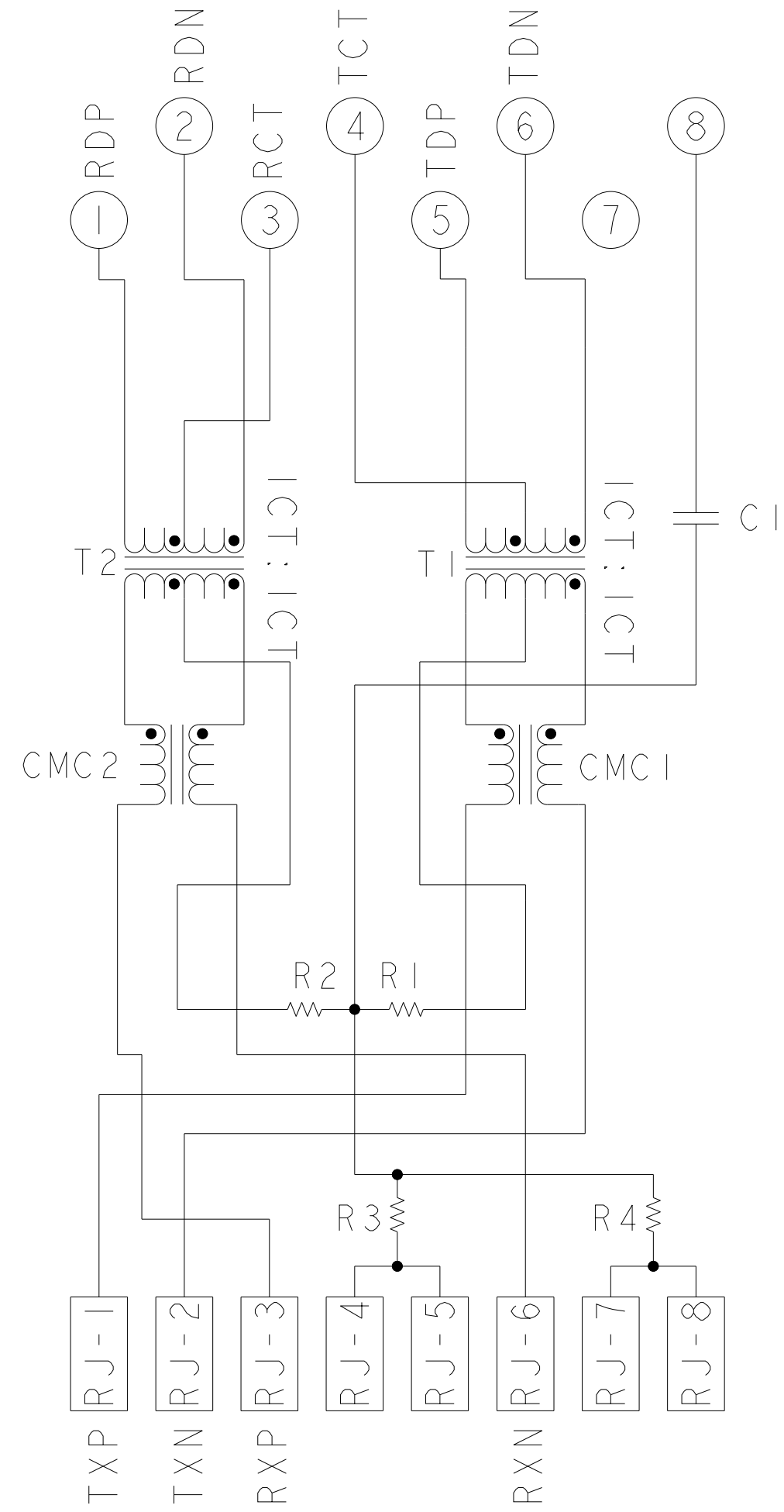
GREEN	YELLOW	NO	GREEN	YELLOW	NO	2250028-6
GREEN	-	YES	GREEN	-	YES	2250028-5
GREEN	-	NO	YELLOW	-	NO	2250028-4
GREEN	-	YES	YELLOW	-	YES	2250028-3
GREEN	-	NO	GREEN	-	NO	2250028-2
GREEN	YELLOW	NO	GREEN	-	NO	2250028-1
9  10	10  9	250 OHMS RESISTOR 	11  12	12  11	250 OHMS RESISTOR 	PART NUMBER
LED 1			LED 2			

THIS DRAWING IS A CONTROLLED DOCUMENT.									
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 ±°		DWN ROY LIU 31MAY2013		 trp CONNECTOR a bel group		DONGGUAN CHINA	
				CHK TOWER YU/FRANK LIU 31MAY2013 APVD TONY YUAN 31MAY2013					
				MODEL NAME MAGJACK		DESC 1X1 4146 10/100 TAB DOWN W/ LED			
PRODUCT SPEC 108-104004		APPLICATION SPEC -		SIZE A1		CAGE CODE C=2250028		DRAWING NO - RESTRICTED TO -	
CUSTOMER DRAWING				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.		OWN ROY LIU	31MAY2013	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS:		CHK TOWER YU/FRANK LIU	31MAY2013				
mm		APVD TONY YUAN	31MAY2013				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME	DESC				
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ± APPLICATION SPEC ±		MAGJACK SINGLE Non-PoE		IXI 4146 10/100 TAB DOWN W/ LED		RESTRICTED TO -	
PRODUCT SPEC 108-104004		SIZE A1		CAGE CODE C=2250028		DRAWING NO -	
CUSTOMER DRAWING		SCALE 4:1		SHEET 2		OF 3	
						REV 3	

C_2250028					STOCK DISPOSITION			
					A: CONTINUE AS IS	D: USE OLD FIRST		
					B: REWORK	E: PARTS TO CONFORM		
REVISION HISTORY					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.

DWN
ROY LIU

31MAY2013

CHK
TOWER YU/FRANK LIU

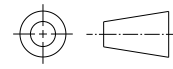
31MAY2013

APVD
TONY YUAN

31MAY2013

DIMENSIONS:

mm



TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC ±0.25
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±
4 PLC ±
ANGLES
APPLICATION SPEC ±

PRODUCT SPEC
108-104004

MODEL NAME

MAGJACK

SINGLE Non-PoE

CUSTOMER DRAWING

DESC

IX1 4146 10/100
TAB DOWN W/ LED

SIZE

A1

CAGE CODE

DRAWING NO

C=2250028

RESTRICTED TO

-

SCALE

4:1

SHEET

3

OF

3

REV

3

 **trp** CONNECTOR

abel group

DONGGUAN
CHINA