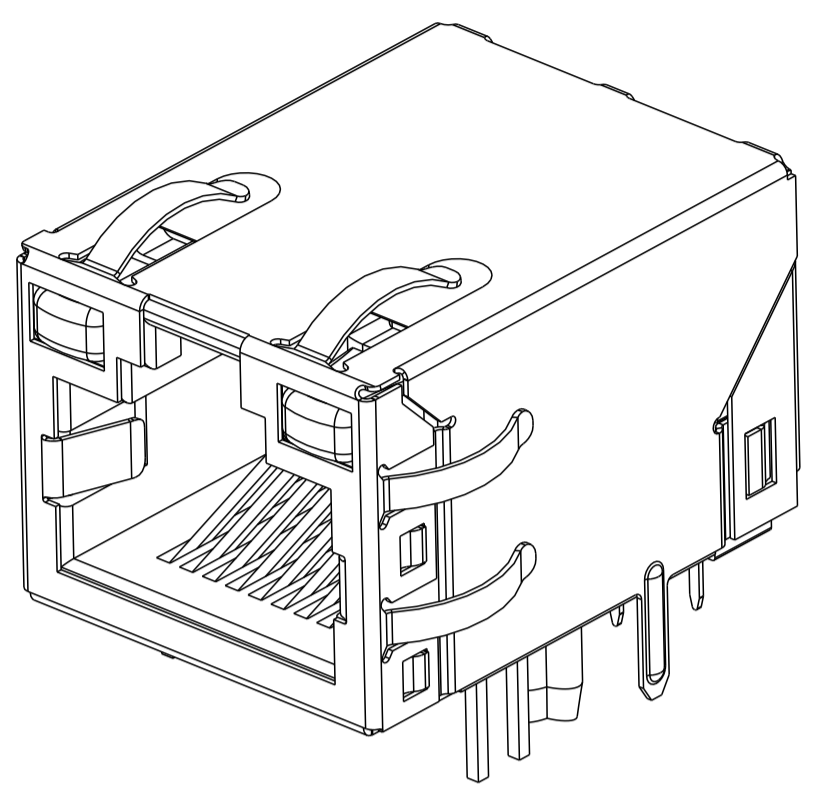
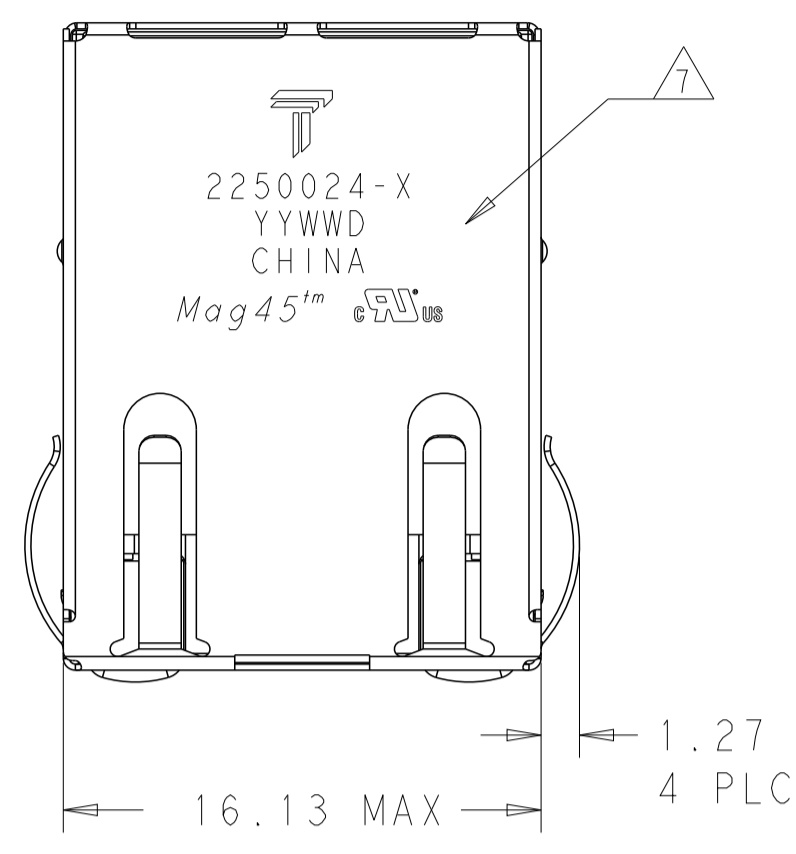


REVISIONS				
P	LTN	DESCRIPTION	DATE	OWN APVD
1		INITIAL RELEASE	28MAY2013	RL TY
2		SEE LAST SHEET	03JUN2013	RL TY
3		SEE LAST SHEET	06AUG2013	RL TY
4		SEE LAST SHEET	16AUG2013	RL TY



- 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

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

- MAGNETICS**
- APPLICATION: 10/100 BASE-T, PoE
  - 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
  - POE CURRENT: 350mADC MAX
  - 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

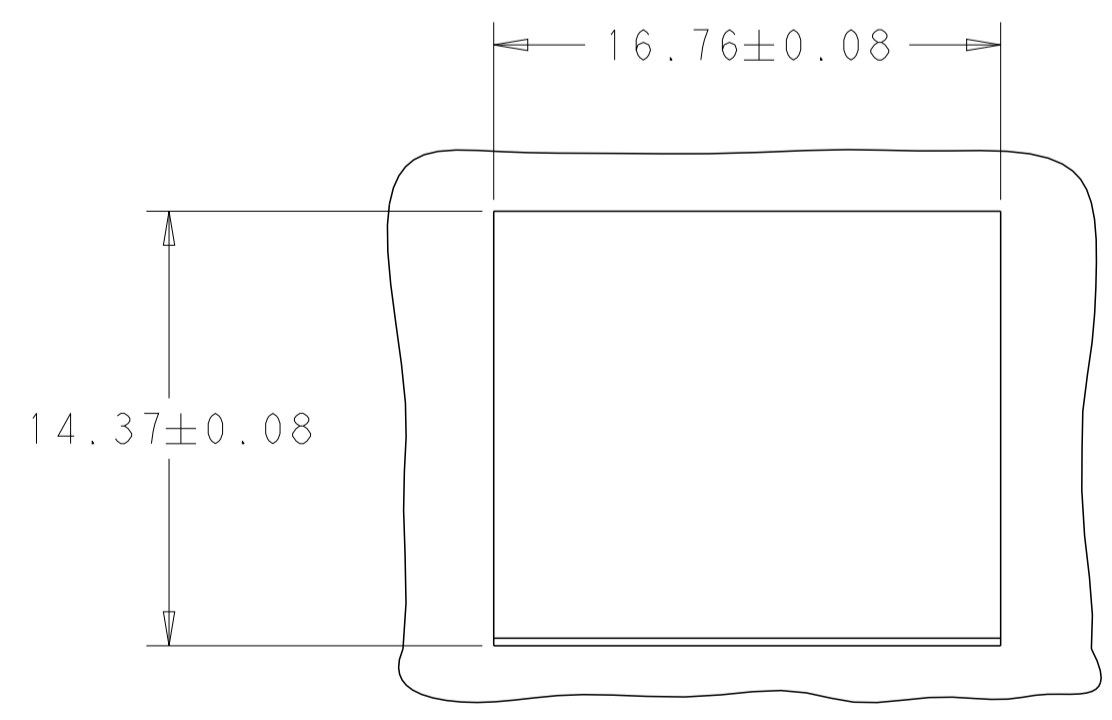
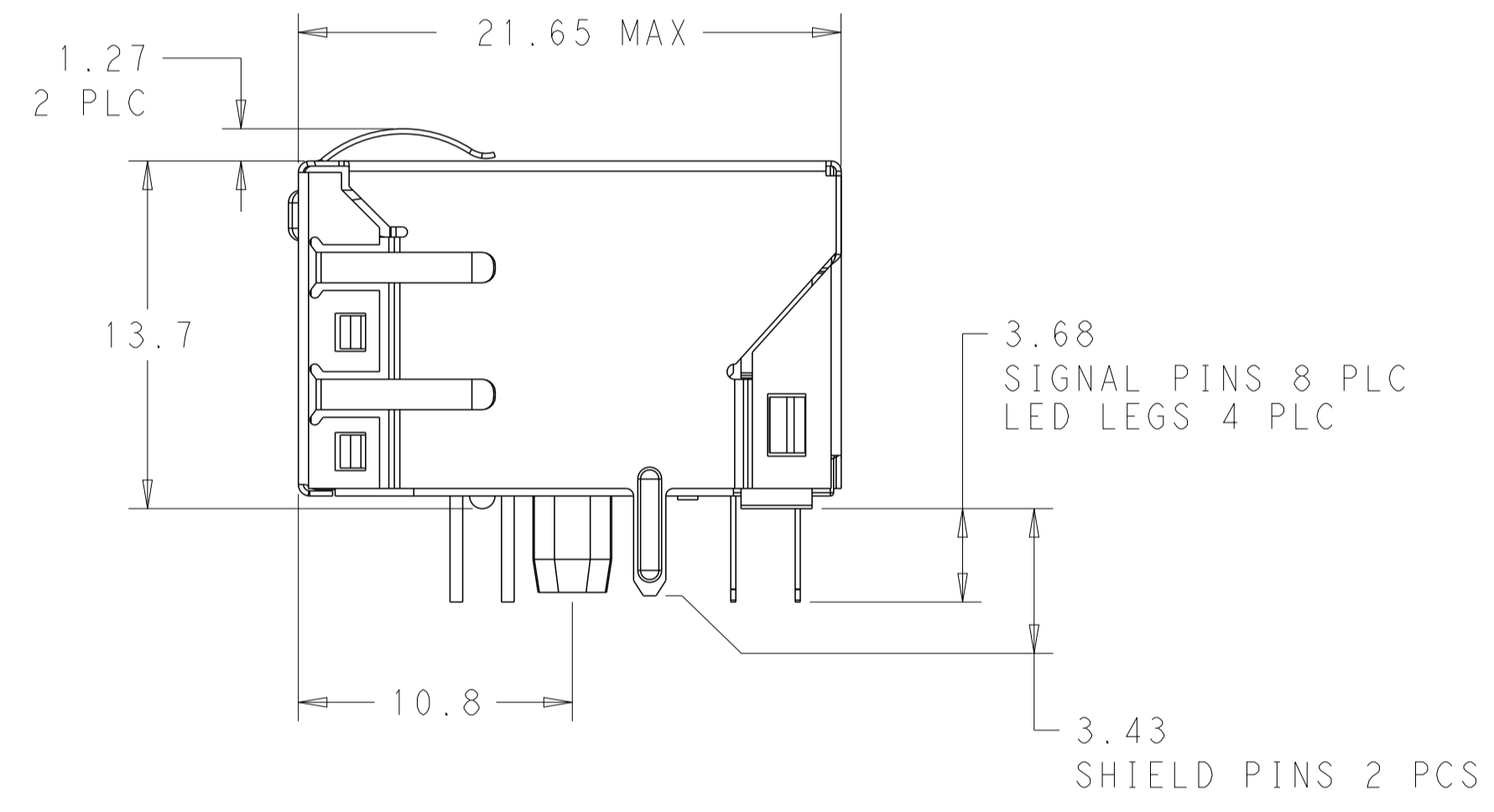
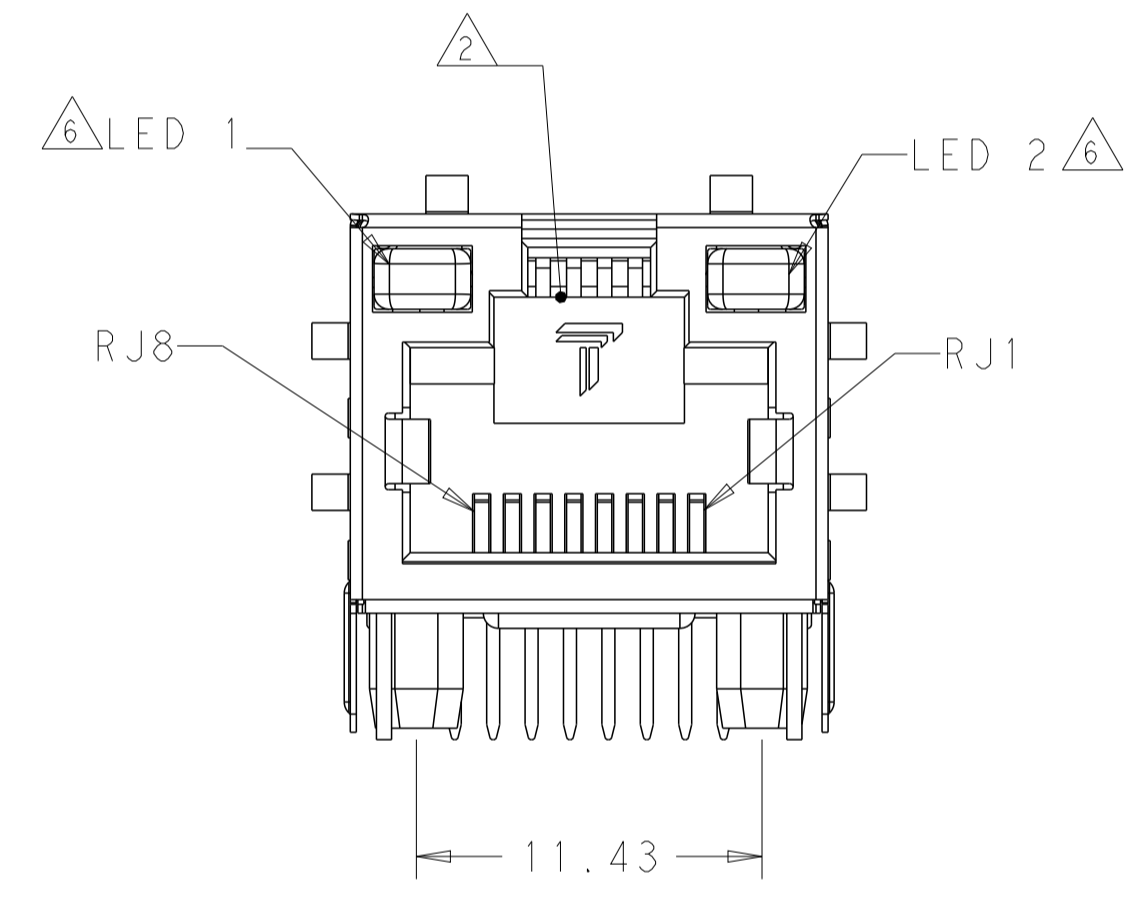
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

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

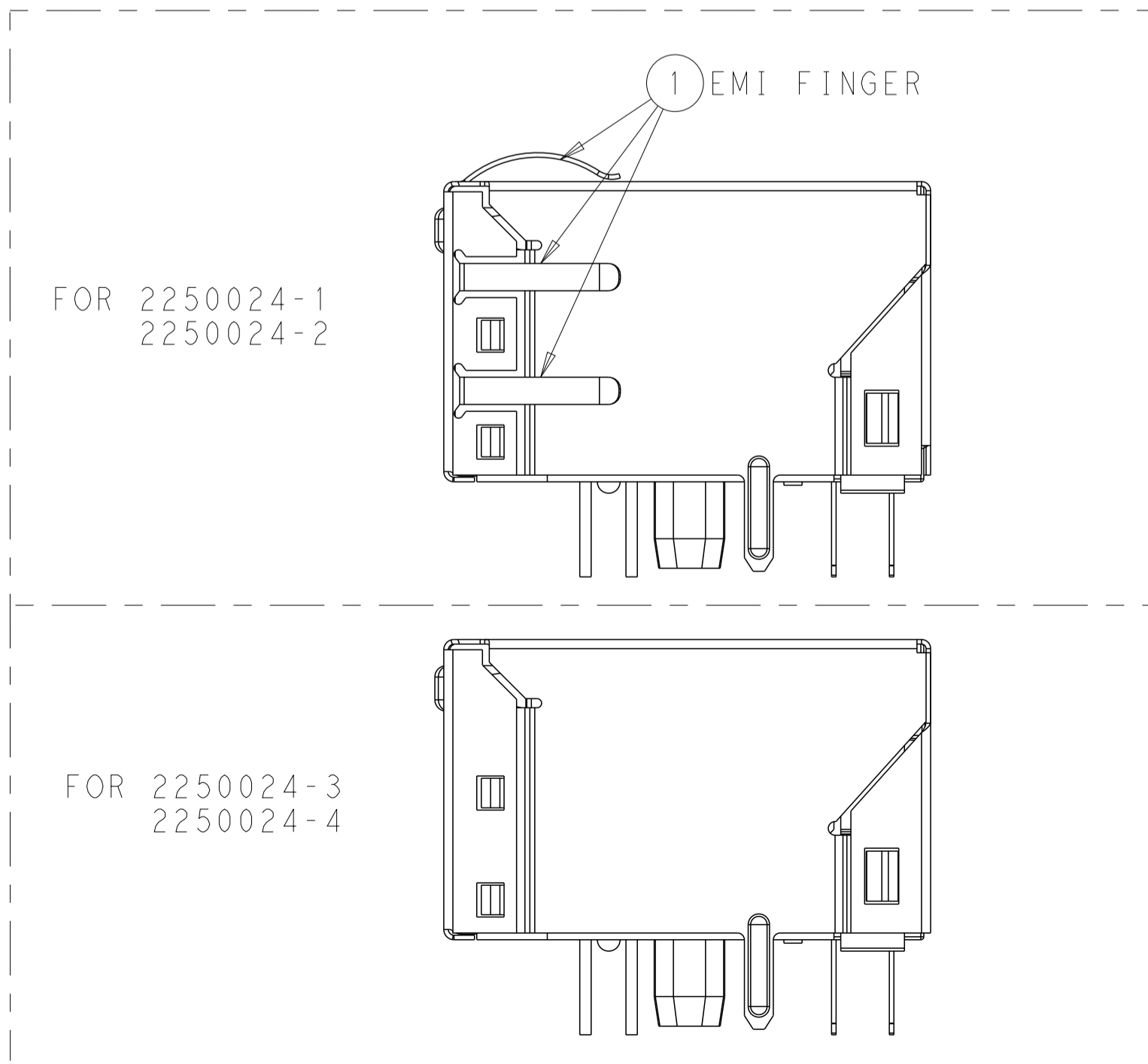
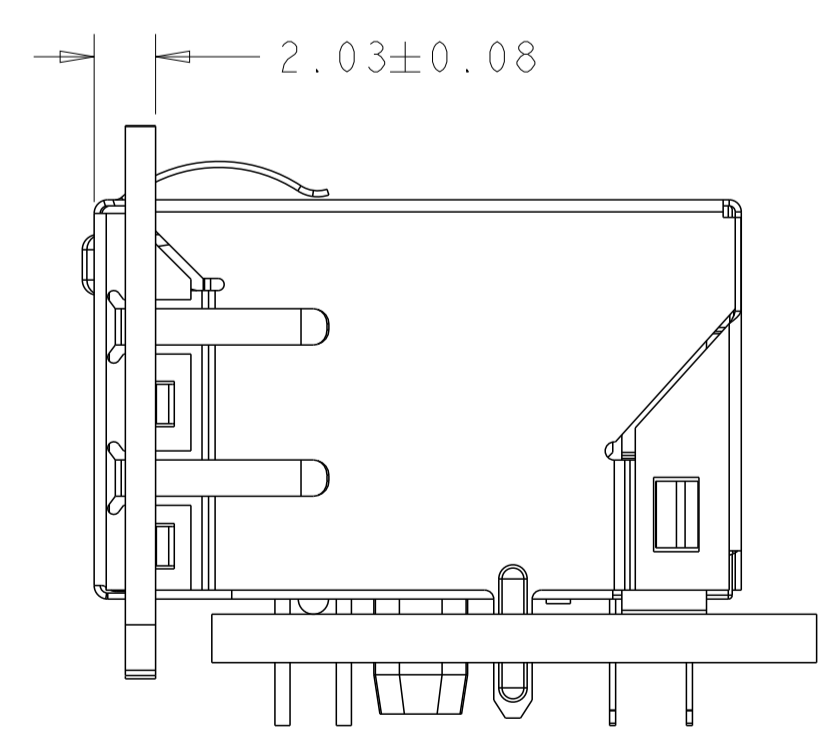
- THE LED WITH 250 OHM RESISTORS. LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA
- LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP @ VF=5V  
 FORWARD CURRENT (IF): GREEN 12mA TYP @ VF = 5V  
 DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP @ VF=5V  
 FORWARD CURRENT (IF): YELLOW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

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 CUTOUT



NO	GREEN	YELLOW	2250024-4
NO	GREEN	GREEN	2250024-3
YES	GREEN	GREEN	2250024-2
YES	GREEN	YELLOW	2250024-1
EMI FINGER ①	9	10	PART NUMBER
	LED 1	LED 2	

THIS DRAWING IS A CONTROLLED DOCUMENT.

OWN: ROY LIU 28MAY2013  
 CHK: TOWER YU / FRANK LIU 28MAY2013  
 APVD: TONY YUAN 28MAY2013

TRP connector  
 Dongguan China


NAME: 1X1 MAG45(TM), MODULAR JACK, 7D144, 10/100 POE, TAB UP, WITH LEDS

SIZE: A1  
 CAGE CODE: -  
 DRAWING NO: C=2250024

SCALE: 4:1  
 SHEET: 1 OF 3  
 REV: 4



C_2250024					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)
28MAY2013	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-
03JUN2013	2	ADD DASH NUMBER 2250024-3	MARKET REQUIREMENT	TONY YUAN	-	-	-	-
06AUG2013	3	SHEET2, C7: ADD NUMBER"11,12,13,14" FOR LED PIN HOLES	ERROR CORRECTION	TONY YUAN	-	-	-	-
16AUG2013	4	ADD DASH NUMBER 2250024-4	MARKET REQUIREMENT	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU 28MAY2013	 TRP connector Dongguan China
DIMENSIONS: mm		CHEK TOWER YU / FRANK LIU 28MAY2013	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TONY YUAN 28MAY2013	NAME 1X1 MAG45(TM), MODULAR JACK, 7D144, 10/100 POE, TAB UP, WITH LEDS
0 PLC ±0.25	1 PLC ±0.25	PRODUCT SPEC	SIZE A1
2 PLC ±0.25	3 PLC ±0.25	APPLICATION SPEC	CAGE CODE -
4 PLC ±0.25	ANGLES ±0.0001	WEIGHT	DRAWING NO C=2250024
MATERIAL		FINISH	RESTRICTED TO
CUSTOMER DRAWING		SCALE 4:1	SHEET 3 OF 3
		REV 4	