

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	OWN
A		EC-1710013	11OCT2017	TRY
B		EC-1903022	15MAR2019	TRY

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 PREPLATED WITH 3um TIN.
 - 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,
 - 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.

3. MAGNETICS
- APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN. @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25°C:
 - INSERTION LOSS (IL): 1.1dB MAX. FROM 0.5MHz TO 100MHz
 - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 - 12-20LOG(f/80)dB MIN. FROM 40.1MHz TO 100MHz
 - 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 RESISTOR IS OPTIONAL, PLEASE SEE CHART FOR PRESENCE OF LED RESISTORS

IF LEDS WITHOUT 250 OHM RESISTOR, LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA

LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20mA

FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF 20mA

DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP @ IF=20mA

FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF 20mA

IF LEDS WITH BUILT-IN 250 OHM RESISTOR, 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): GREEN 13mA TYP @ VF=5V

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

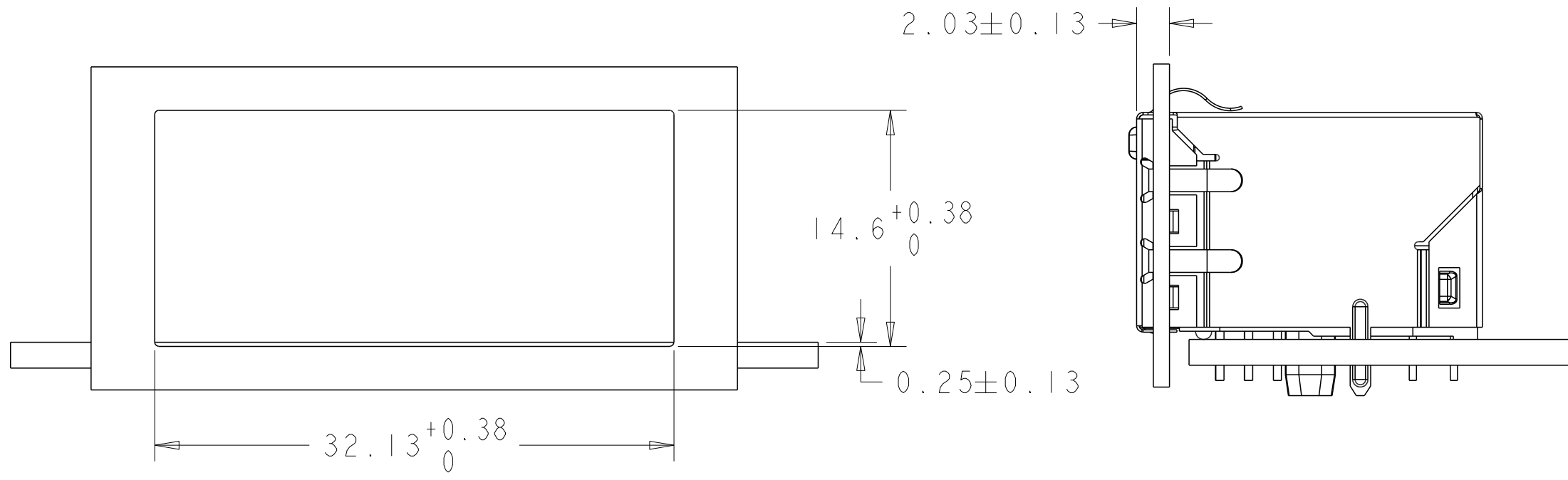
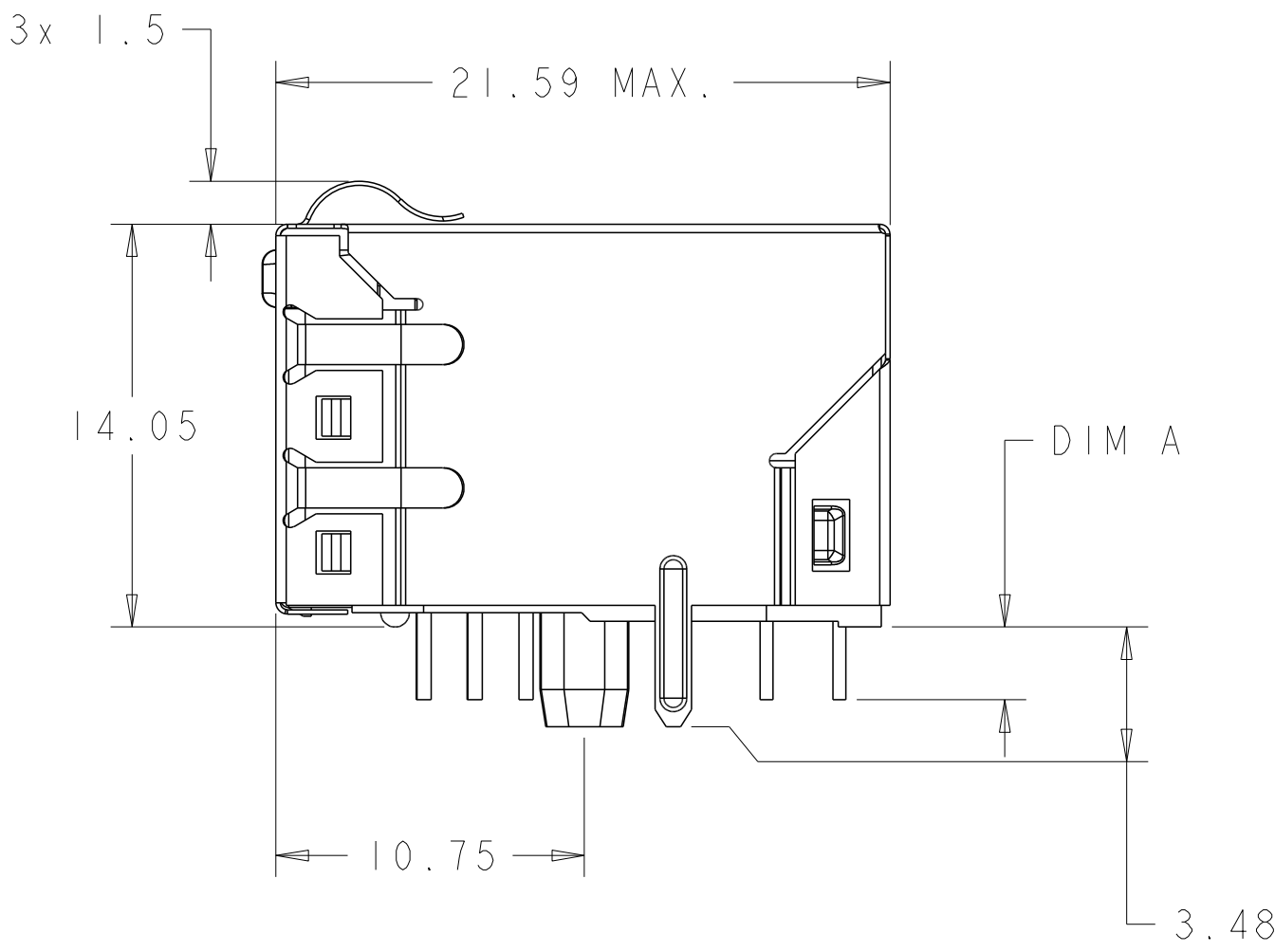
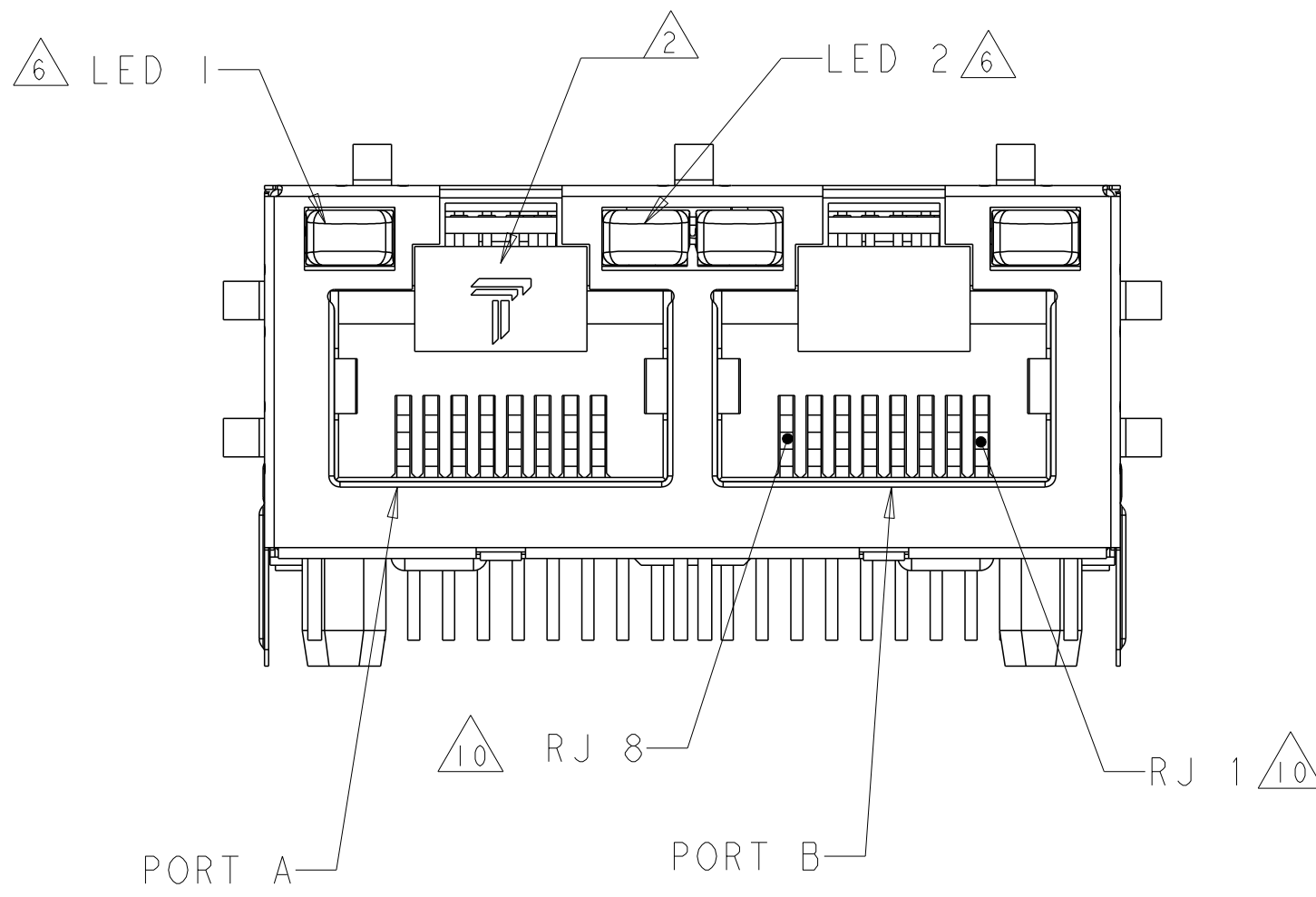
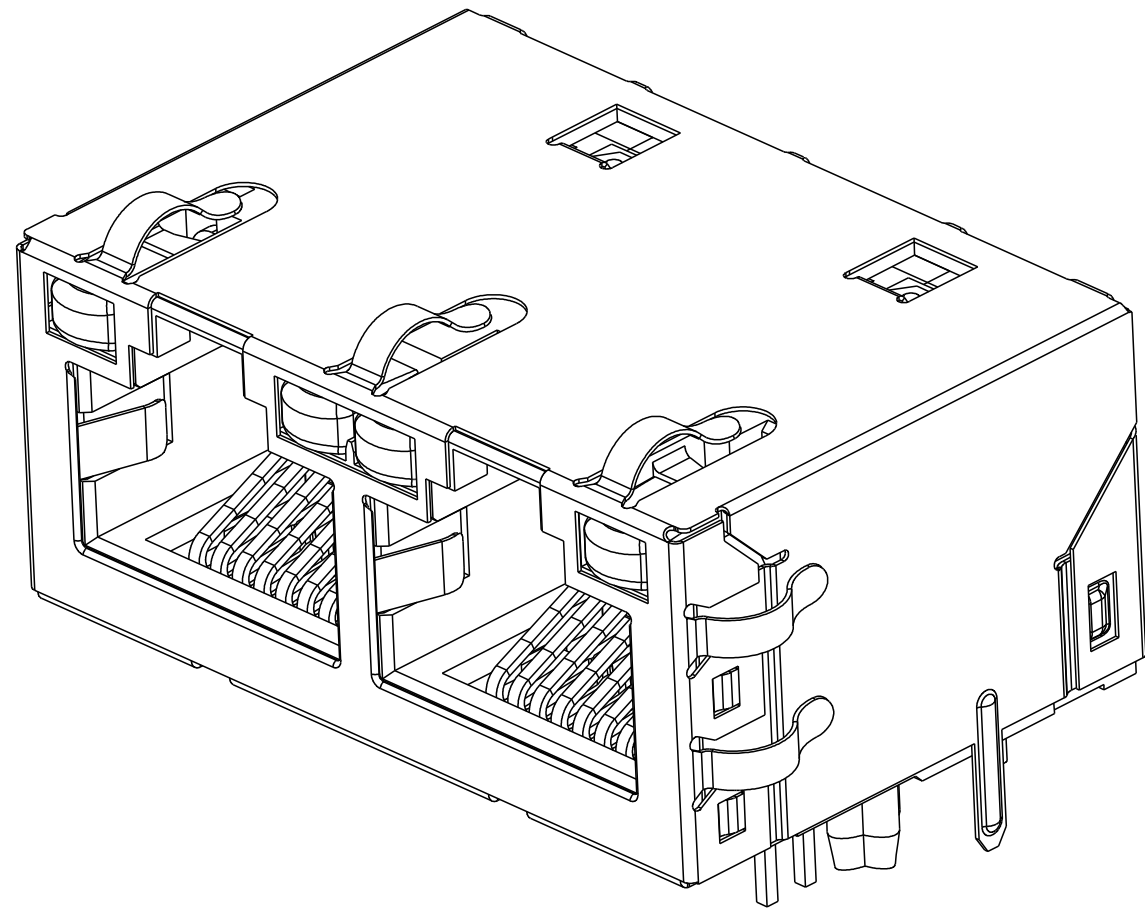
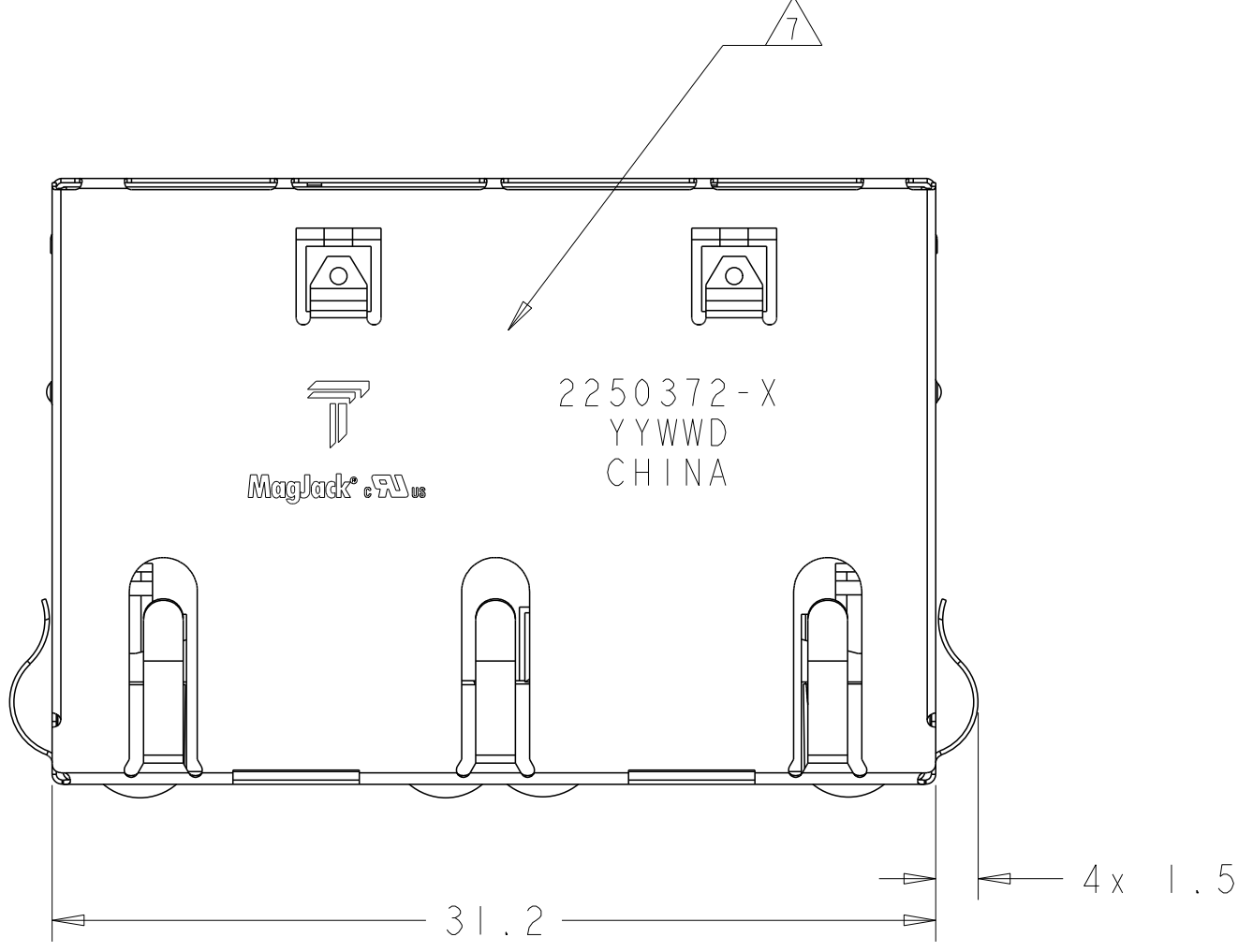
8. THE PART COMPLIANTS TO WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

9. THE PART COMPLIANTS TO IR REFLOW SOLDERING PROESS, PEAK SOLDERING TEMPERATURE 260°C MAX. DURATION TIME 10 SECONDS MAX., OVER 230 °C WITHIN 40 TO 60 SECONDS.

10. CONTACT LUBRICANT IN MATING AREA. FOR 2250372-8 ONLY

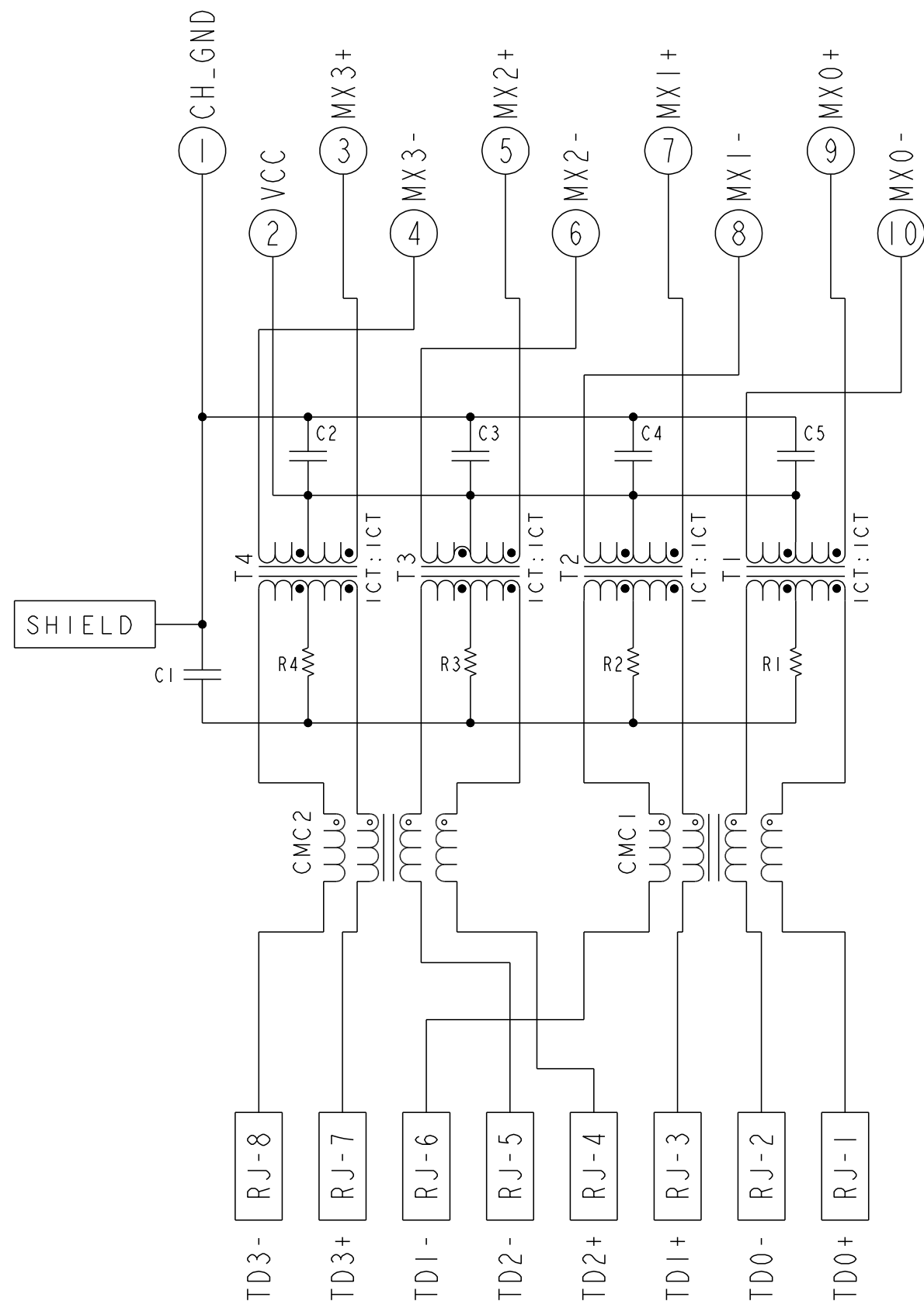
10	WAVE 8	TOP AND SIDES	PBT	3.68	YELLOW	GREEN	NO	YELLOW	GREEN	NO	2250372-8
NONE	WAVE 8	TOP AND SIDES	PBT	3.68	-	GREEN	NO	-	GREEN	NO	2250372-7
NONE	REFLOW 9	TOP AND SIDES	HTN	3.68	-	YELLOW	NO	-	GREEN	NO	2250372-6
NONE	REFLOW 9	TOP AND SIDES	HTN	3.68	-	YELLOW	YES	-	GREEN	YES	2250372-5
NONE	WAVE 8	ALL	PBT	3.68	-	GREEN	YES	-	YELLOW	YES	2250372-4
NONE	WAVE 8	TOP AND SIDES	PBT	2.54	YELLOW	GREEN	NO	YELLOW	GREEN	NO	2250372-3
NONE	WAVE 8	TOP AND SIDES	PBT	3.68	YELLOW	GREEN	NO	YELLOW	GREEN	NO	2250372-2
NONE	WAVE 8	TOP AND SIDES	HTN	2.54	-	GREEN	YES	-	GREEN	YES	2250372-1
LUBE	SOLDERING PROCESS	SHIELD TABS	HOUSING MATERIAL	DIM A	D1	D2	LED 1 250 OHM RESISTORS	D3	D4	LED 2 250 OHM RESISTORS	PART NUMBER
					LED 1			LED 2			

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN TOWER YU / YI LIU 18FEB2016	trp CONNECTOR DONGGUAN CHINA	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	CHK BILL LIU 18FEB2016		
	0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES APPLICATION SPEC	APVD TONY YUAN 18FEB2016	MODEL NAME	DESC
PRODUCT SPEC 108-104004	-		MAGJACK GANG NON-POE	1X2 7G151 GIGABIT TAB UP W/ LED
			SIZE A1	CAGE CODE DRAWING NO C=2250372
			CUSTOMER DRAWING	RESTRICTED TO -
			SCALE 4:1	SHEET 1 OF 2 REV B

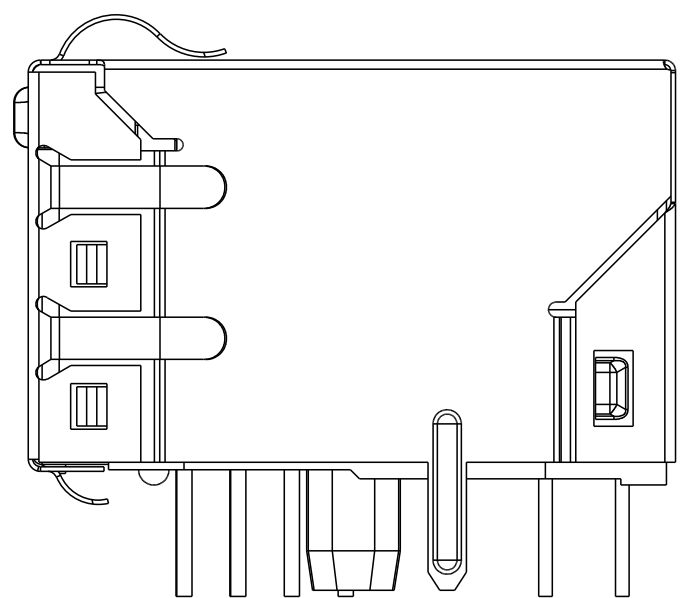


SUGGESTED PANEL CUTOUT

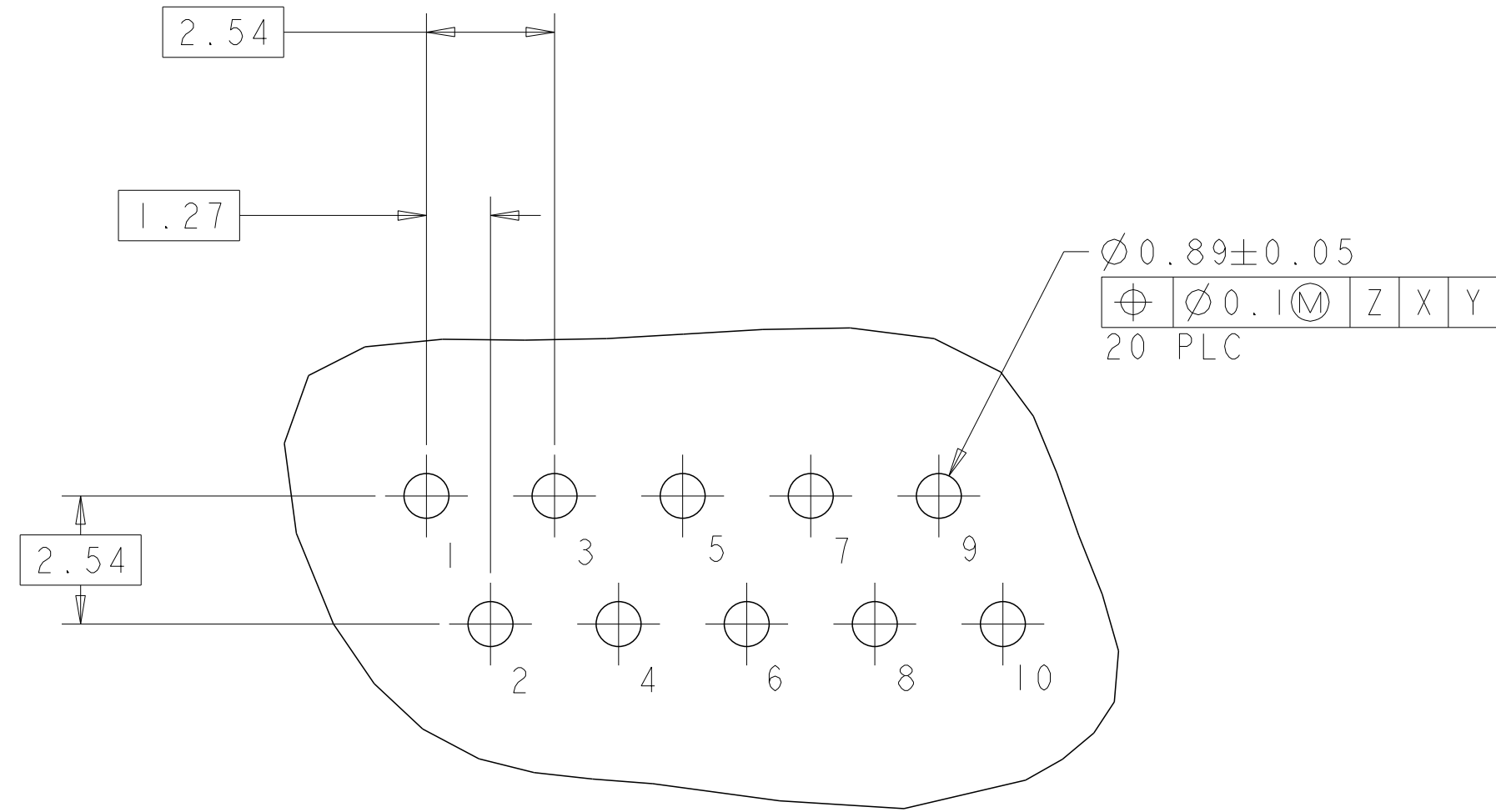
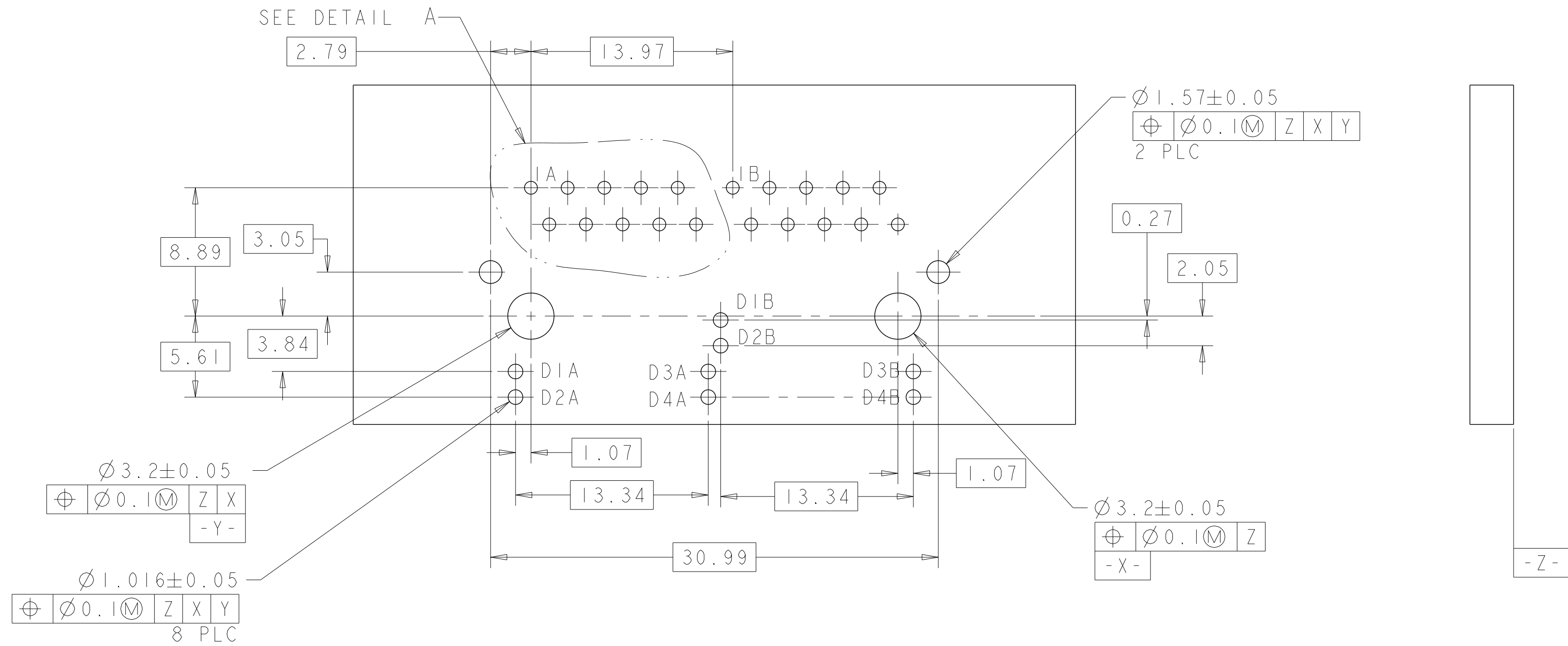
7G151 GIGABIT CIRCUIT



C1 = 1000pF, 2kV CAPACITOR
R1-R4 = 75 Ohms, RESISTORS
C2-C5 = 0.1μF, CAPACITORS



2250372-4



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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	MODEL NAME MAGJACK GANG NON-POE	DESC 1X2 7G151 GIGABIT TAB UP W/ LED			
PRODUCT SPEC 108-104004	-	SIZE A1	CAGE CODE DRAWING NO C=2250372	RESTRICTED TO -		SCALE 4:1
CUSTOMER DRAWING		SHEET 2 OF 2		REV B		