

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				
#	LYR	DESCRIPTION	DATE	DWN APVD
2		SEE LAST SHEET	06FEB2015	RL TY

1. MATERIALS
- HOUSING: THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS C26800 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

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

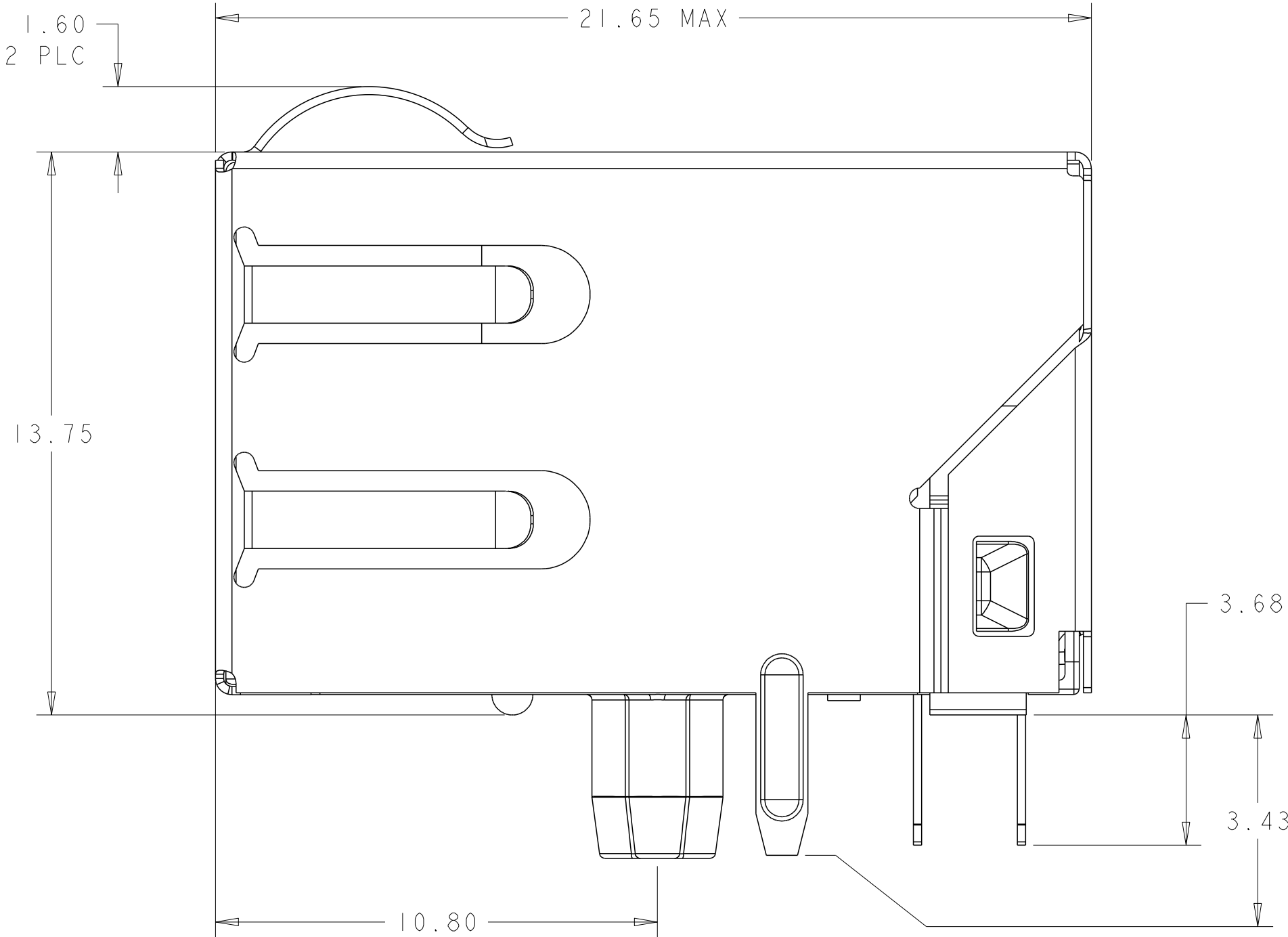
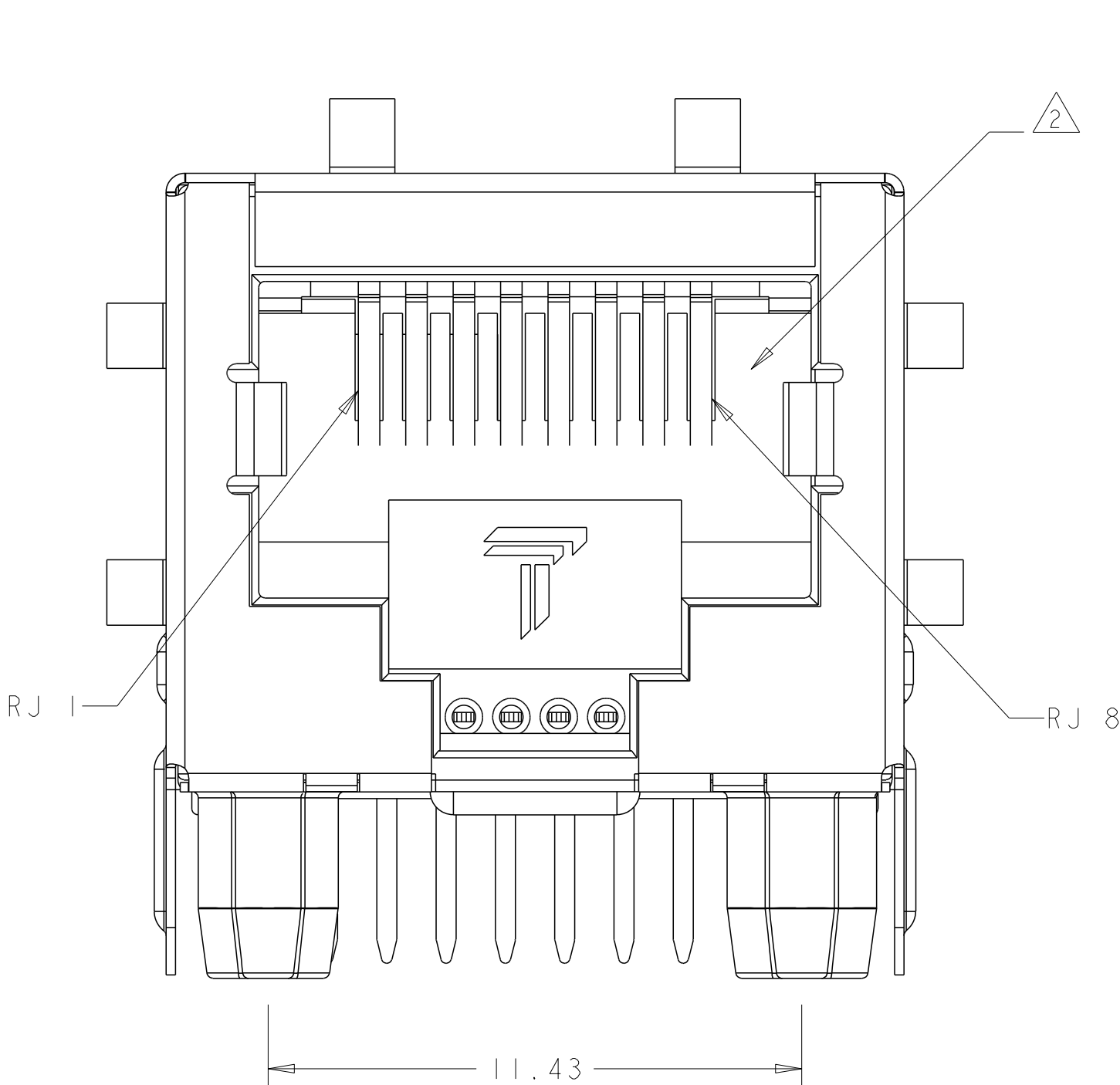
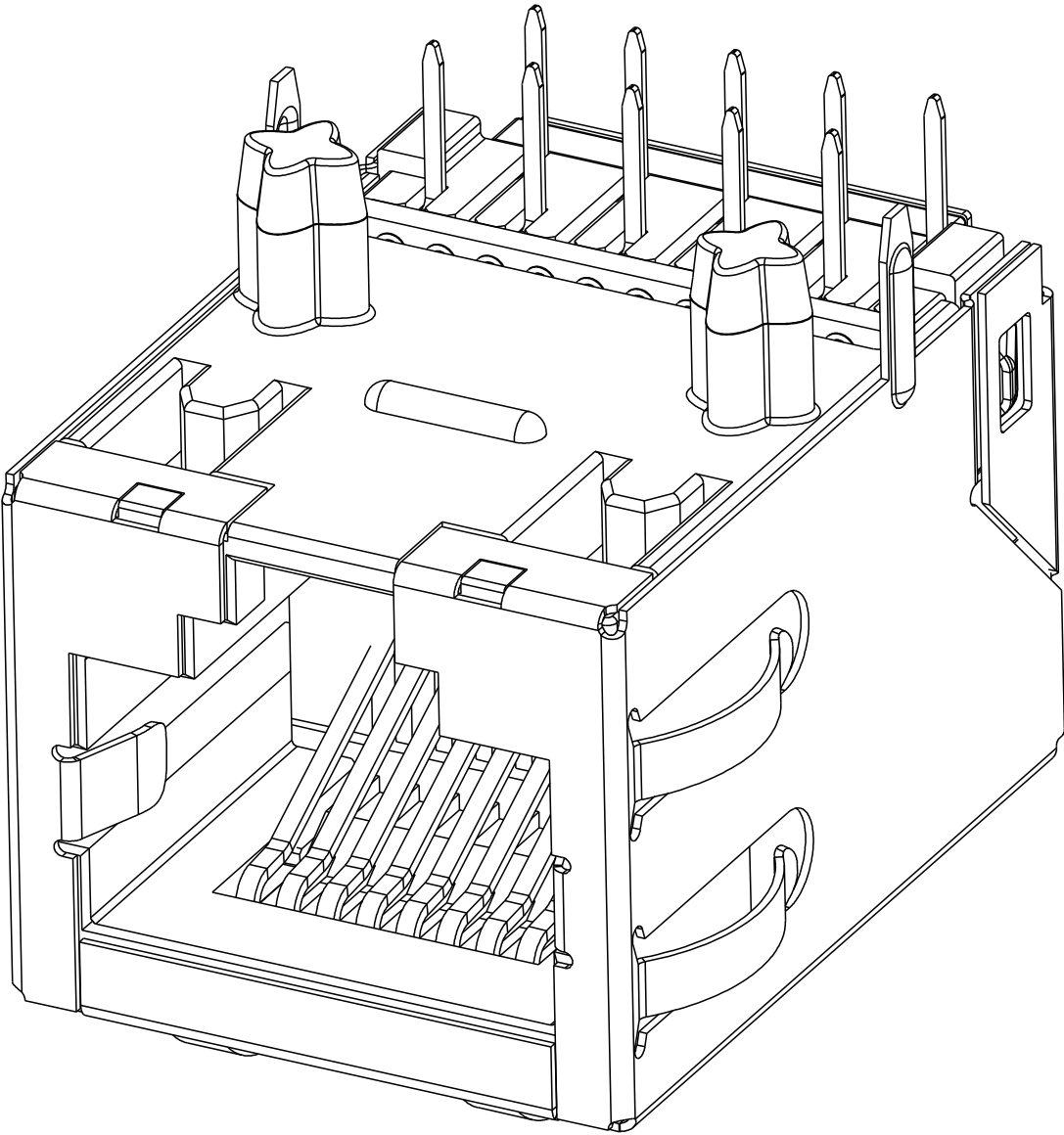
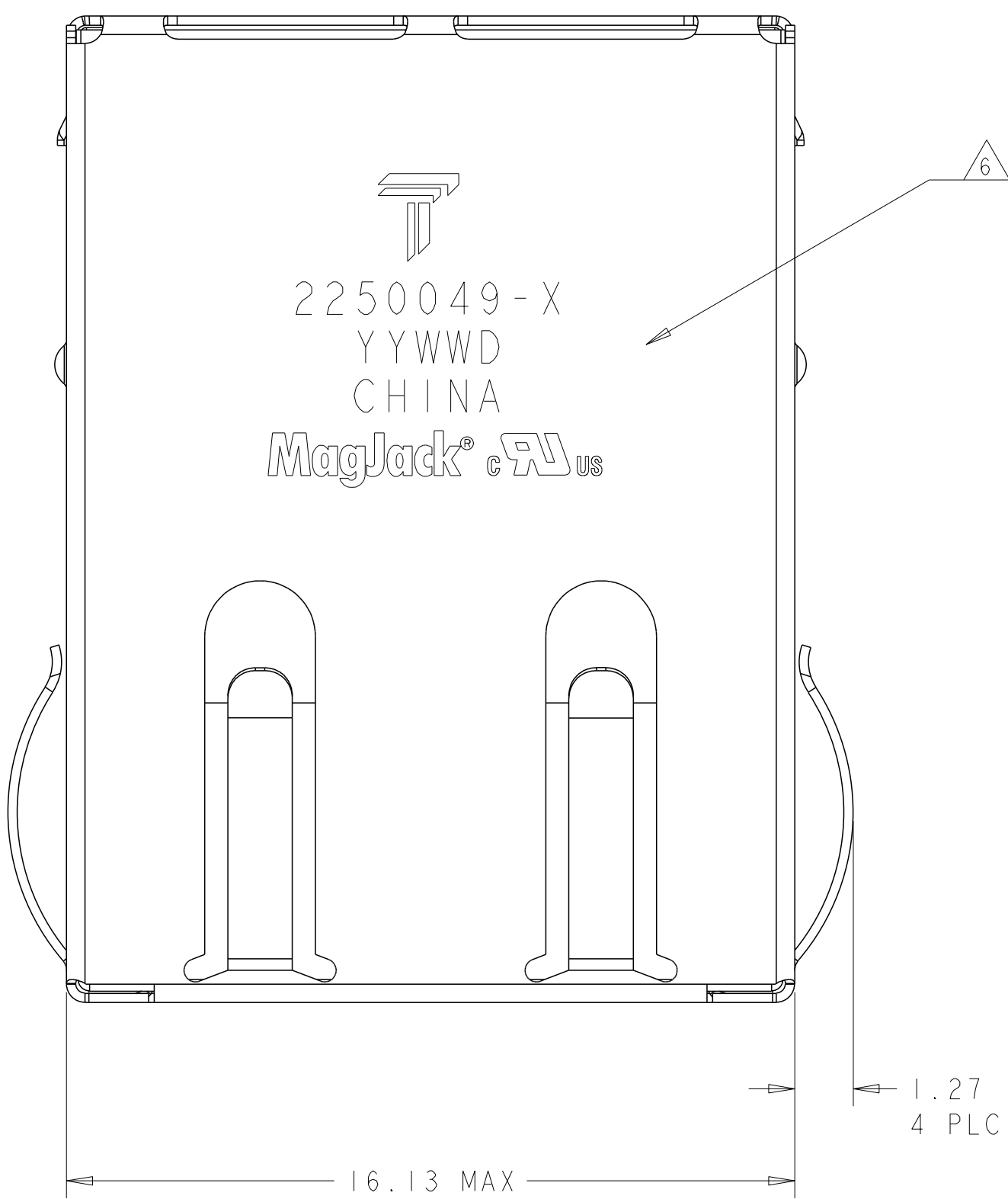
- 3 MAGNETICS
- APPLICATION: 10/100 BASE-T, EXTENDED TEMPERATURE
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO +85°C, TX AND RX
 - PERFORMANCE @ 25°C:
 - INSERTION LOSS (IL): 1.1dB MAX FROM 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.

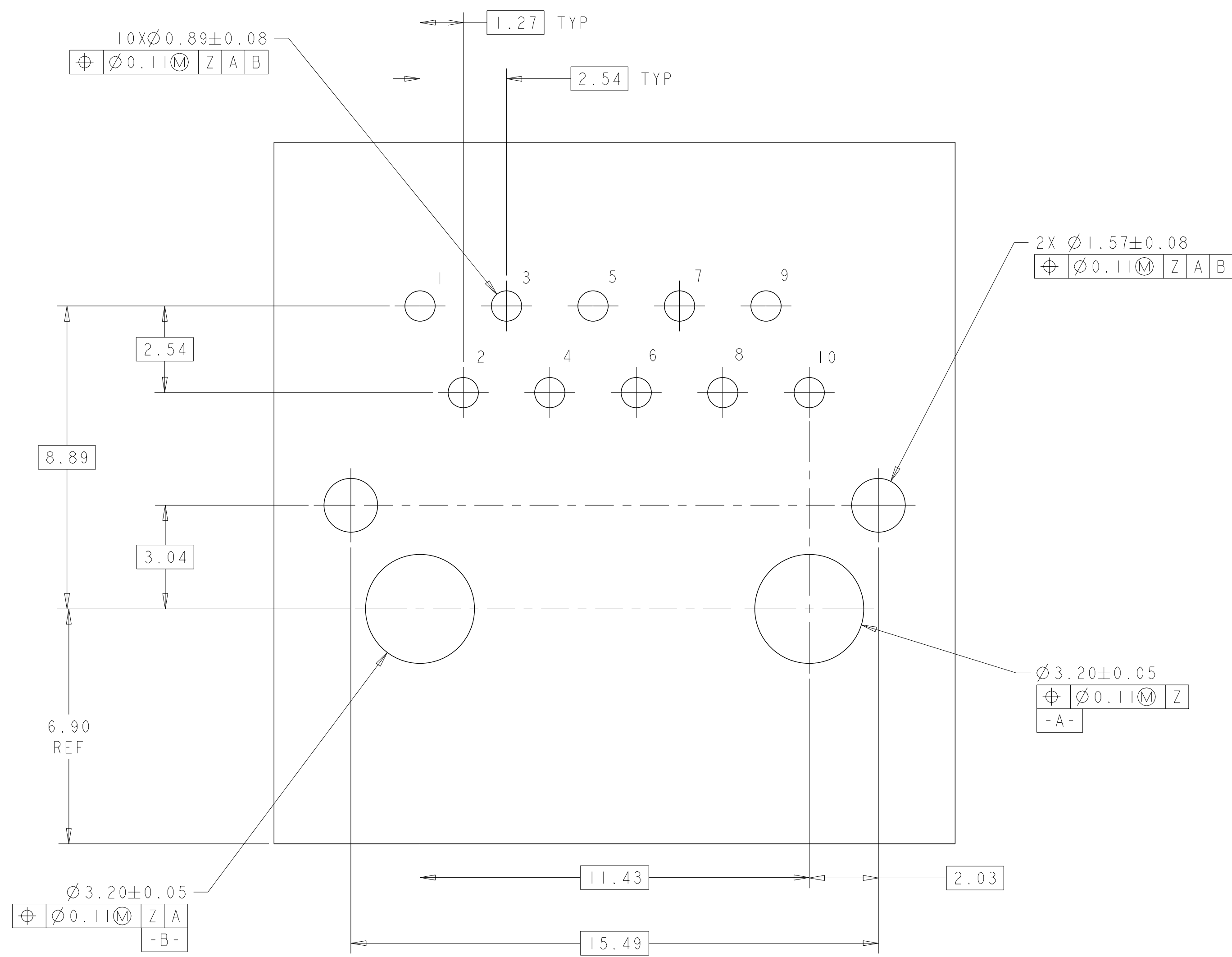
6 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

7. THIS PART IS 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.

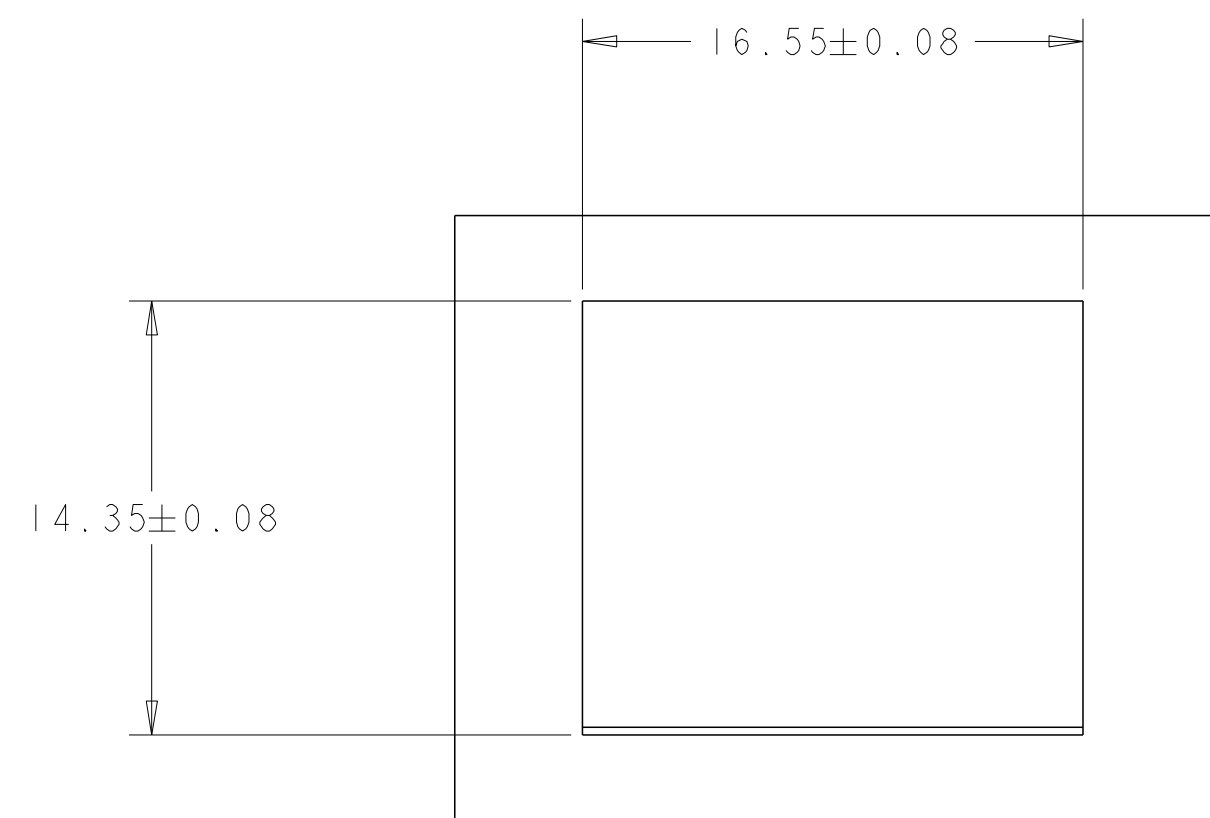


2250049-1
PART NO.

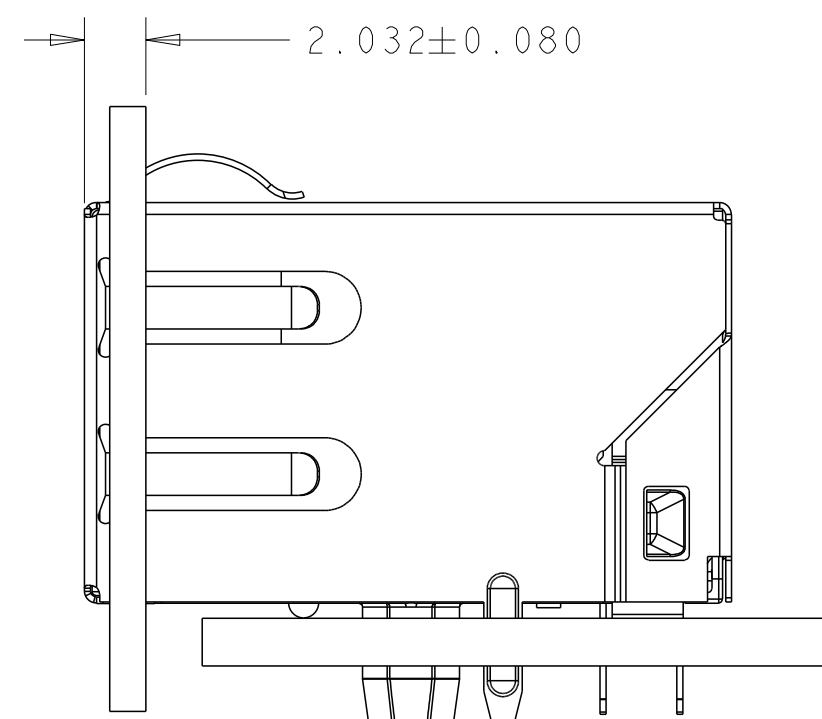
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN ROY LIU 06JUN2013	 trp CONNECTOR a bel group DONGGUAN CHINA			
DIMENSIONS:		CHK TOWER YU/FRANK LIU 06JUN2013				
mm		APVD TONY YUAN 06JUN2013				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME MAGJACK				
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC ±	DESC 1X1 4G45E2 GIGABIT TAB DOWN W/O LED			
PRODUCT SPEC 108-104004		SINGLE Non-PoE	SIZE A1	CAGE CODE C=2250049	DRAWING NO 2250049	RESTRICTED TO -
CUSTOMER DRAWING		SCALE 4:1		SHEET 1	OF 3	REV 2



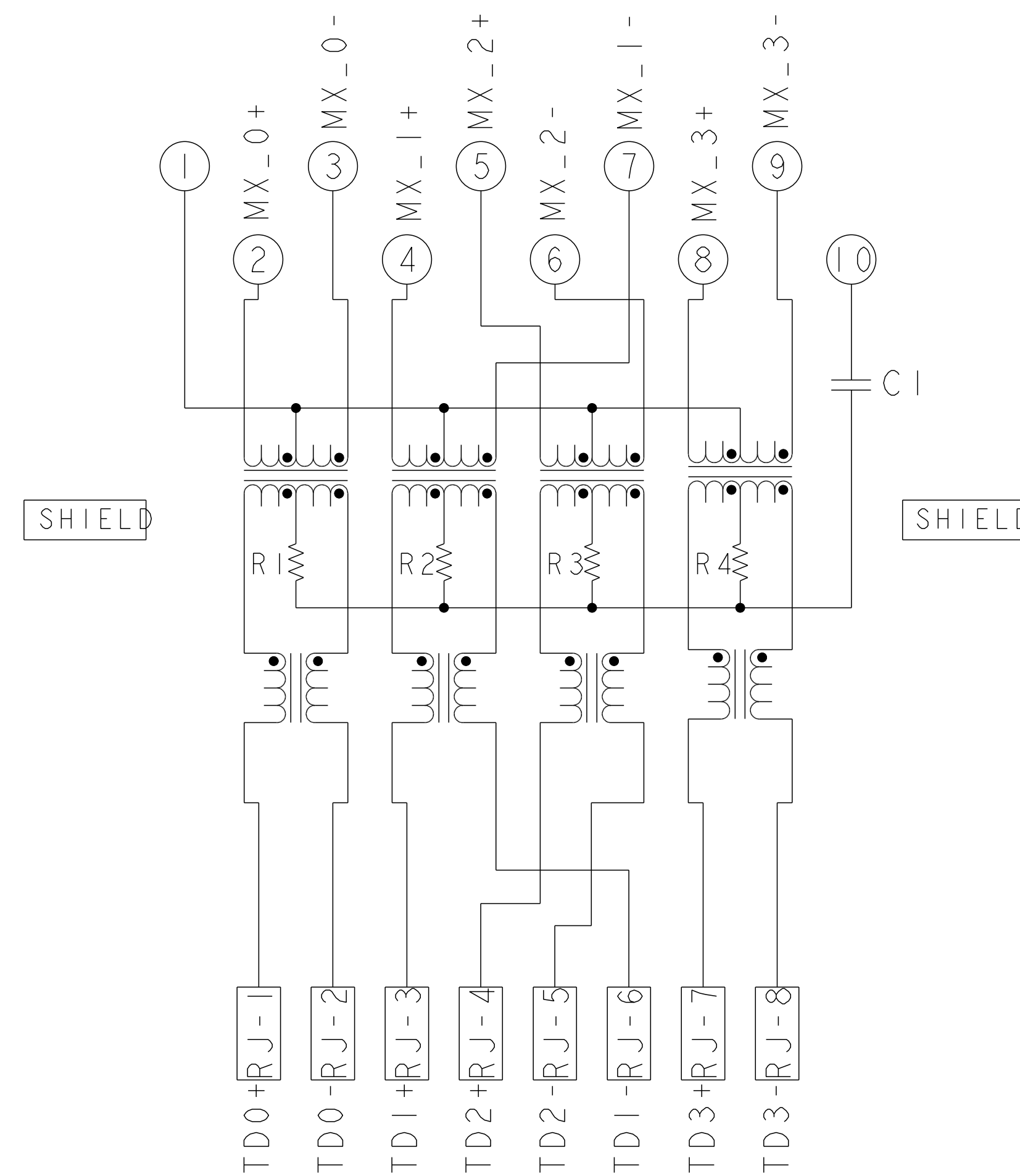
SUGGESTED PCB LAYOUT
COMPONENT SIDE



SUGGESTED PANEL CUTOUT
SCALE 4:1



4G145ET GIGABIT MAGNETIC CIRCUIT ³ ⁵



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

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU 06JUN2013		 trp CONNECTOR a bel group		DONGGUAN CHINA					
DIMENSIONS: mm		CHK TOWER YU/FRANK LIU 06JUN2013									
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TONY YUAN 06JUN2013				DESC 1X1 4G14SET GIGABIT TAB DOWN W/O LED					
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC *		MODEL NAME MAGJACK									
PRODUCT SPEC 108-104004		SINGLE Non-PoE		SIZE A1		CAGE CODE C=2250049		DRAWING NO -		RESTRICTED TO -	
CUSTOMER DRAWING				SCALE 4:1		SHEET 2		OF 3		REV 2	

2250049-C					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)
06JUN2013	1	-	INITIAL RELEASE	KEITH ZHU	-	-	-	-
06FEB2015	2	EC-1411035 COMPANY LOGO CHANGE	MARKET REQUIREMENT	TONY YUAN	-	-	-	-

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DIMENSIONS:
mm

0 PLC ±0.25

1 PLC ±0.25

2 PLC ±0.25

3 PLC ±

4 PLC ±

ANGLES

APPLICATION SPEC

DWN
ROY LIU06JUN2013

CHK
TOWER YU/FRANK LIU06JUN2013

APVD
TONY YUAN06JUN2013

MODEL NAME

MAGJACK

SINGLE Non-PoE

CUSTOMER DRAWING

trp CONNECTOR
a bel group

DONGGUAN
CHINA

DESC

IXI 4G145ET GIGABIT
TAB DOWN W/O LED

SIZE

A1

CAGE CODE

DRAWING NO

2250049

RESTRICTED TO

-

SCALE

4:1

SHEET

3

OF

3

REV

2