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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.

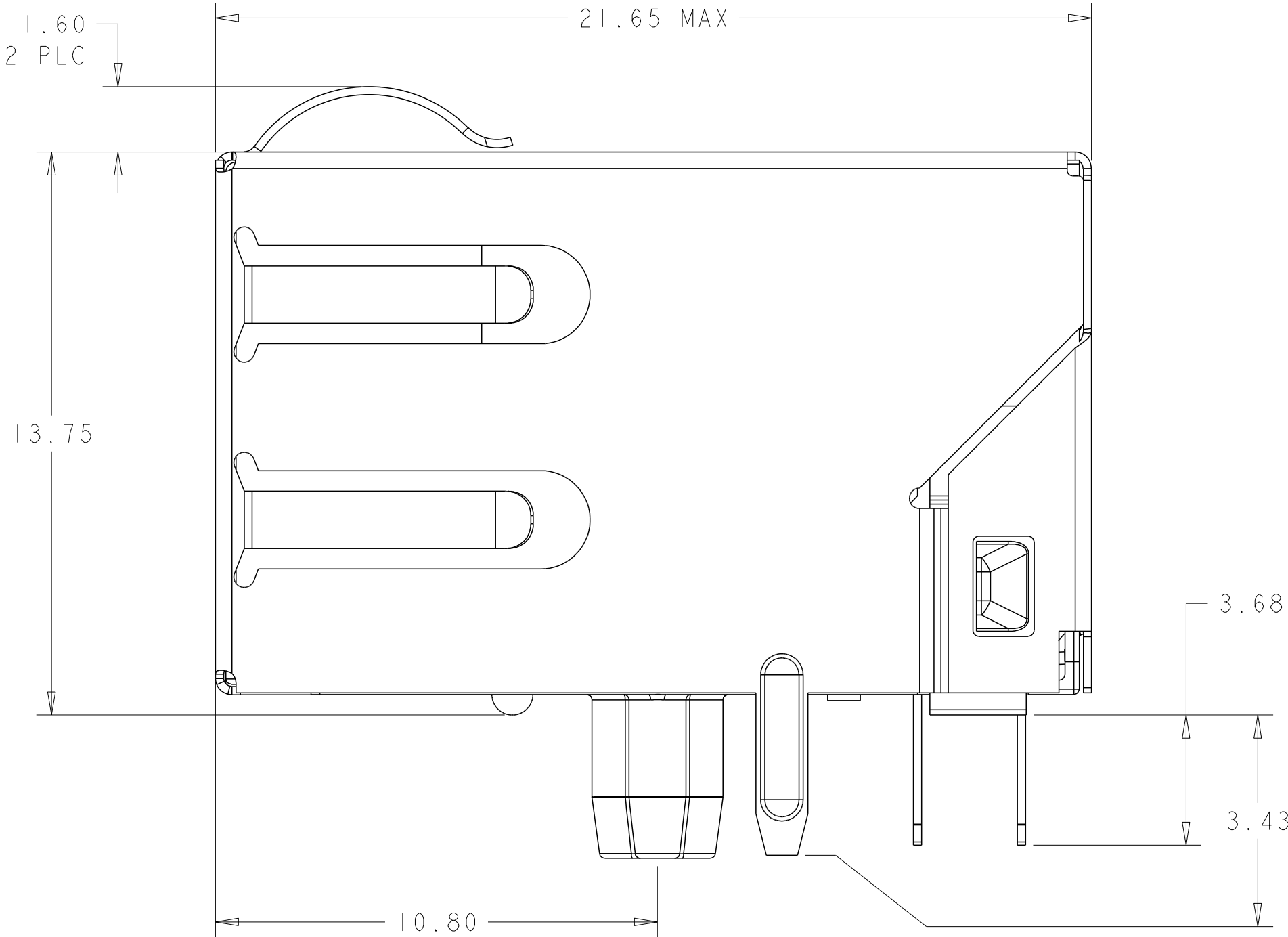
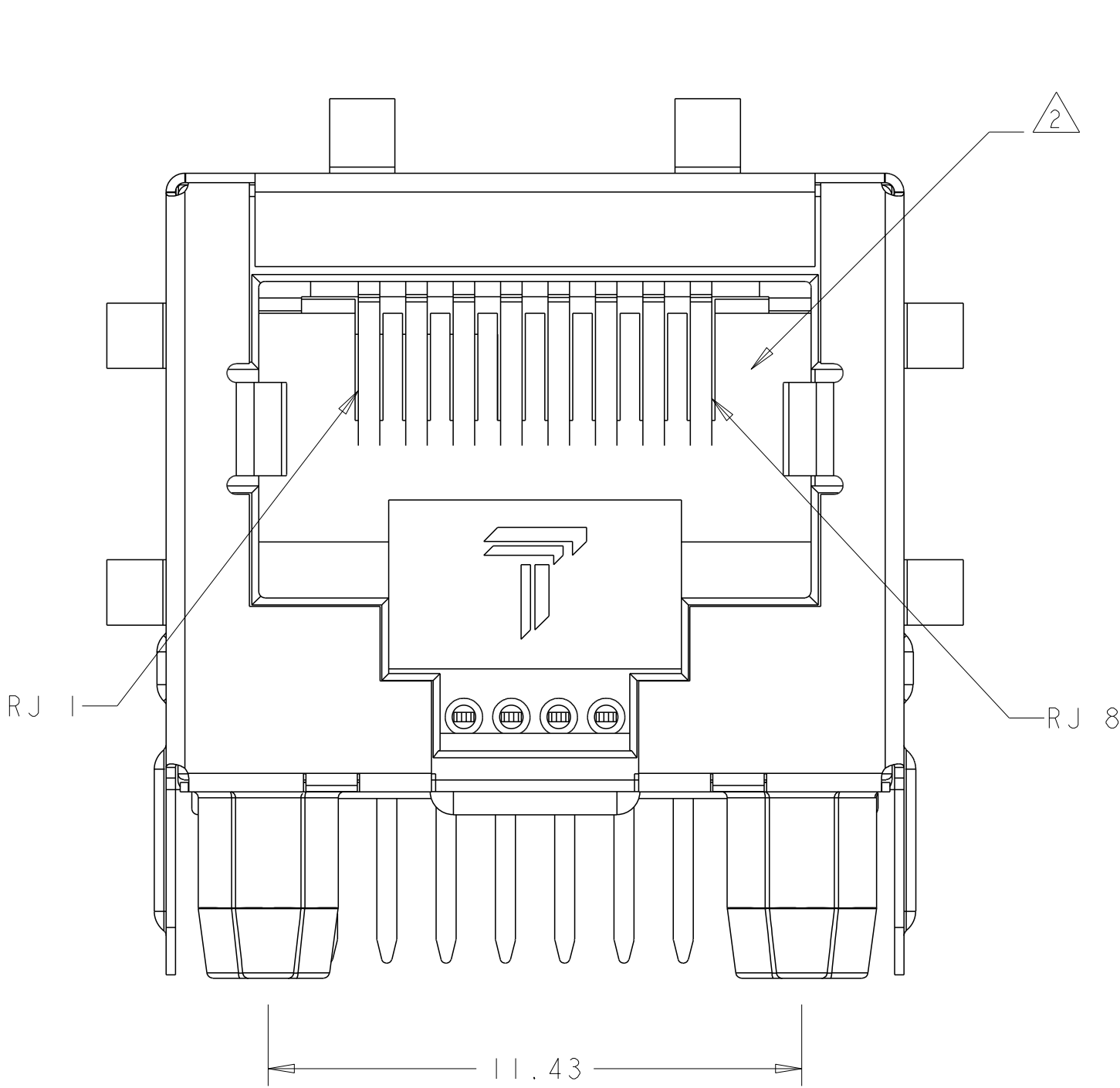
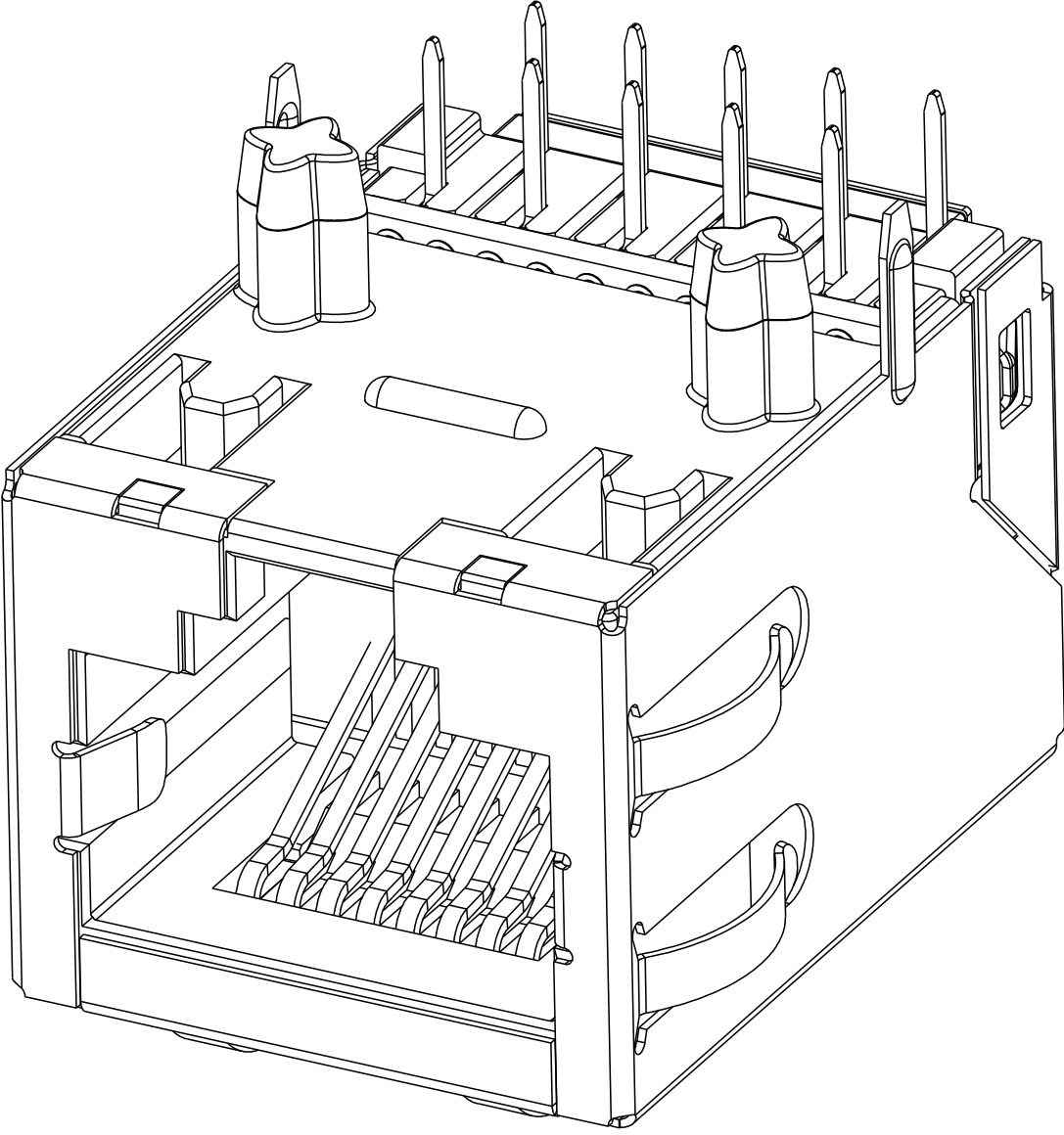
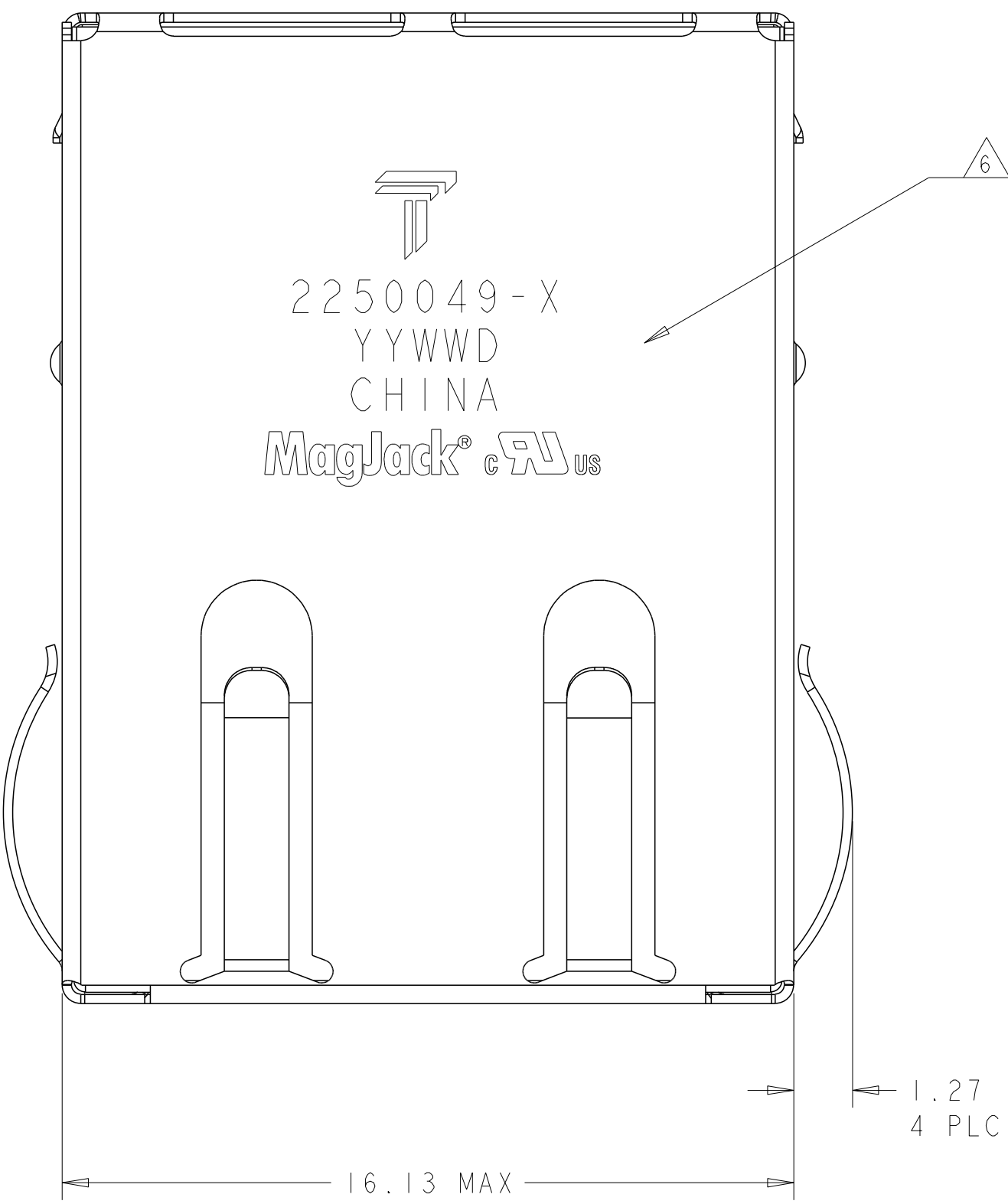
- 3 MAGNETICS
- APPLICATION: 10/100 BASE-T, EXTENDED TEMPERATURE
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO +85°C, TX AND RX
 - PERFORMANCE @ 25°C:
 - INSERTION LOSS (IL): 1.1dB MAX FROM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

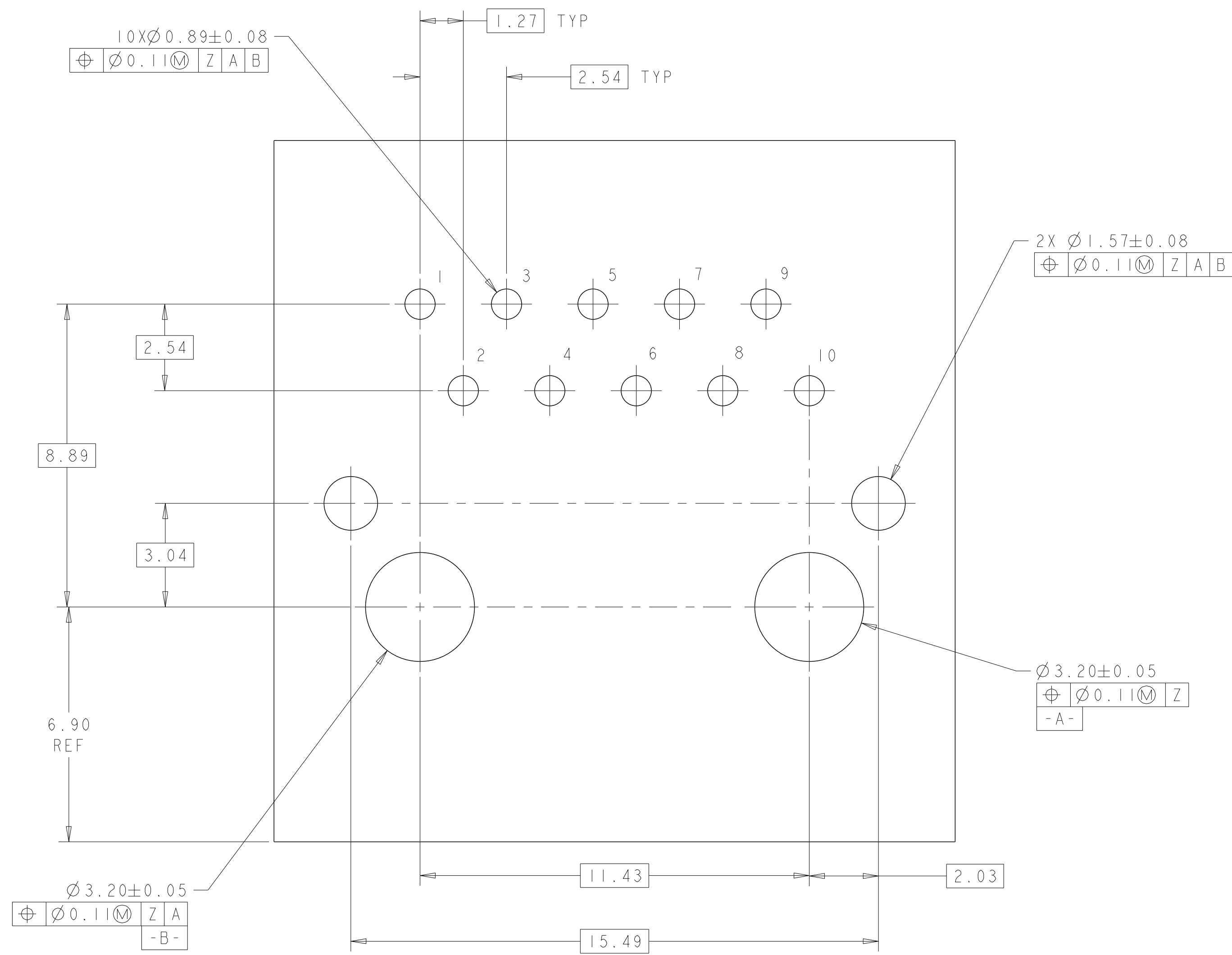
6 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

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.

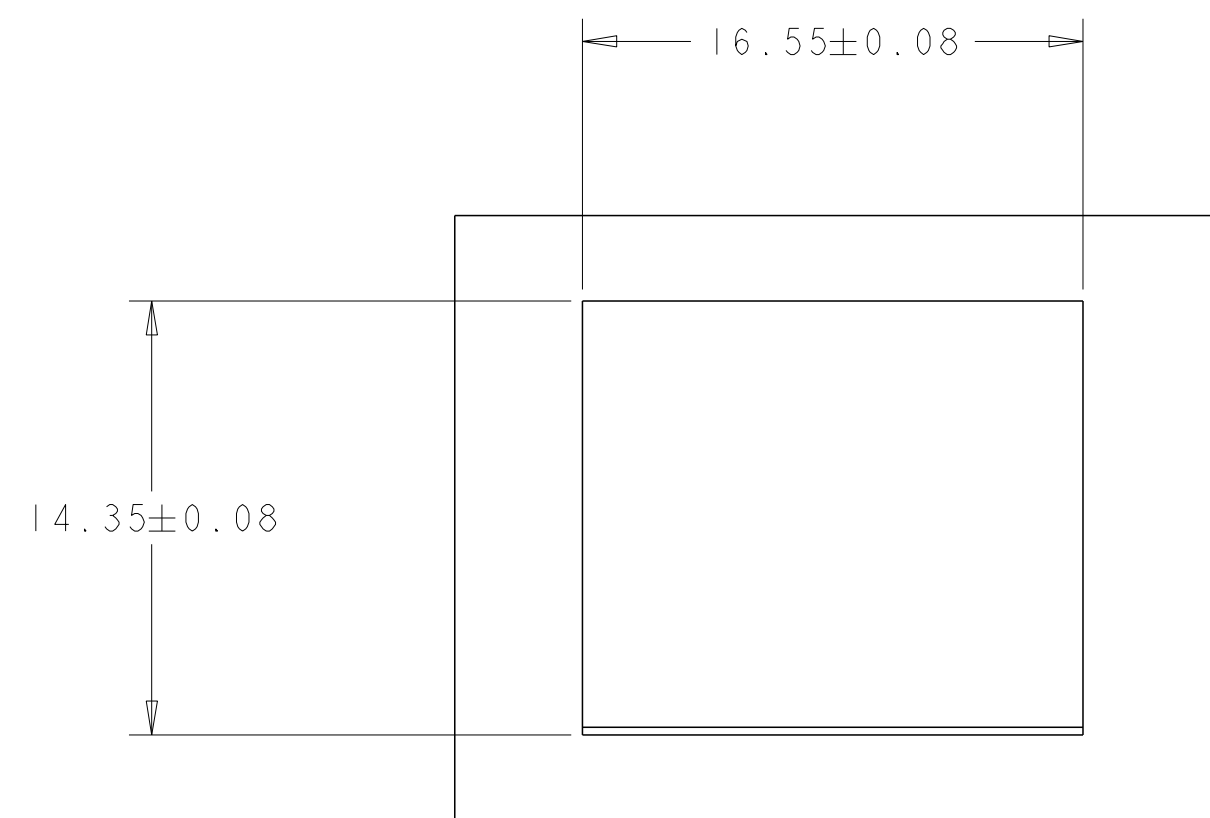


2250049-1
PART NO.

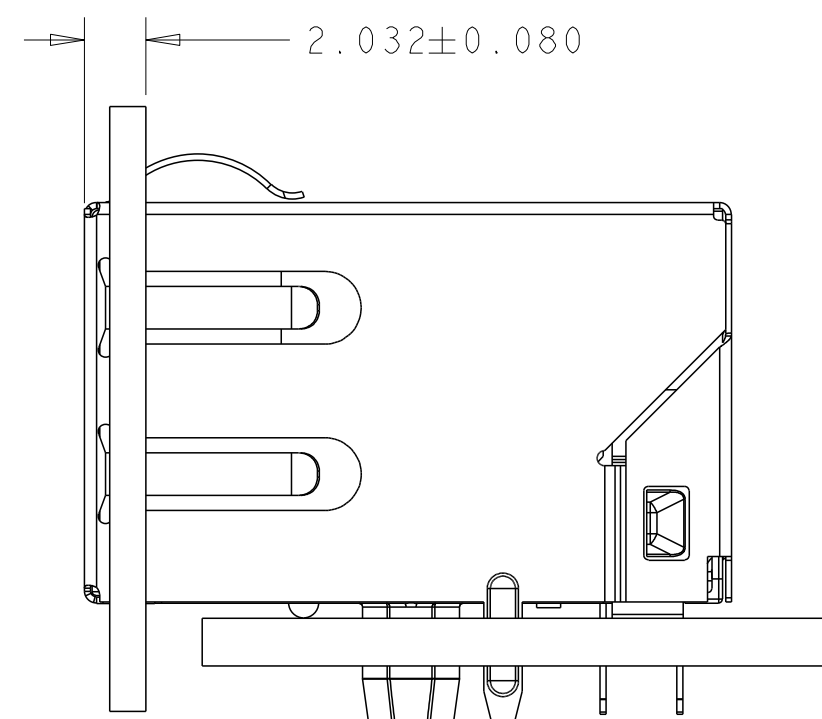
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN ROY LIU 06JUN2013	 trp CONNECTOR a bel group DONGGUAN CHINA	
DIMENSIONS:		CHK TOWER YU/FRANK LIU 06JUN2013		
mm		APVD TONY YUAN 06JUN2013		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME MAGJACK		
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES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



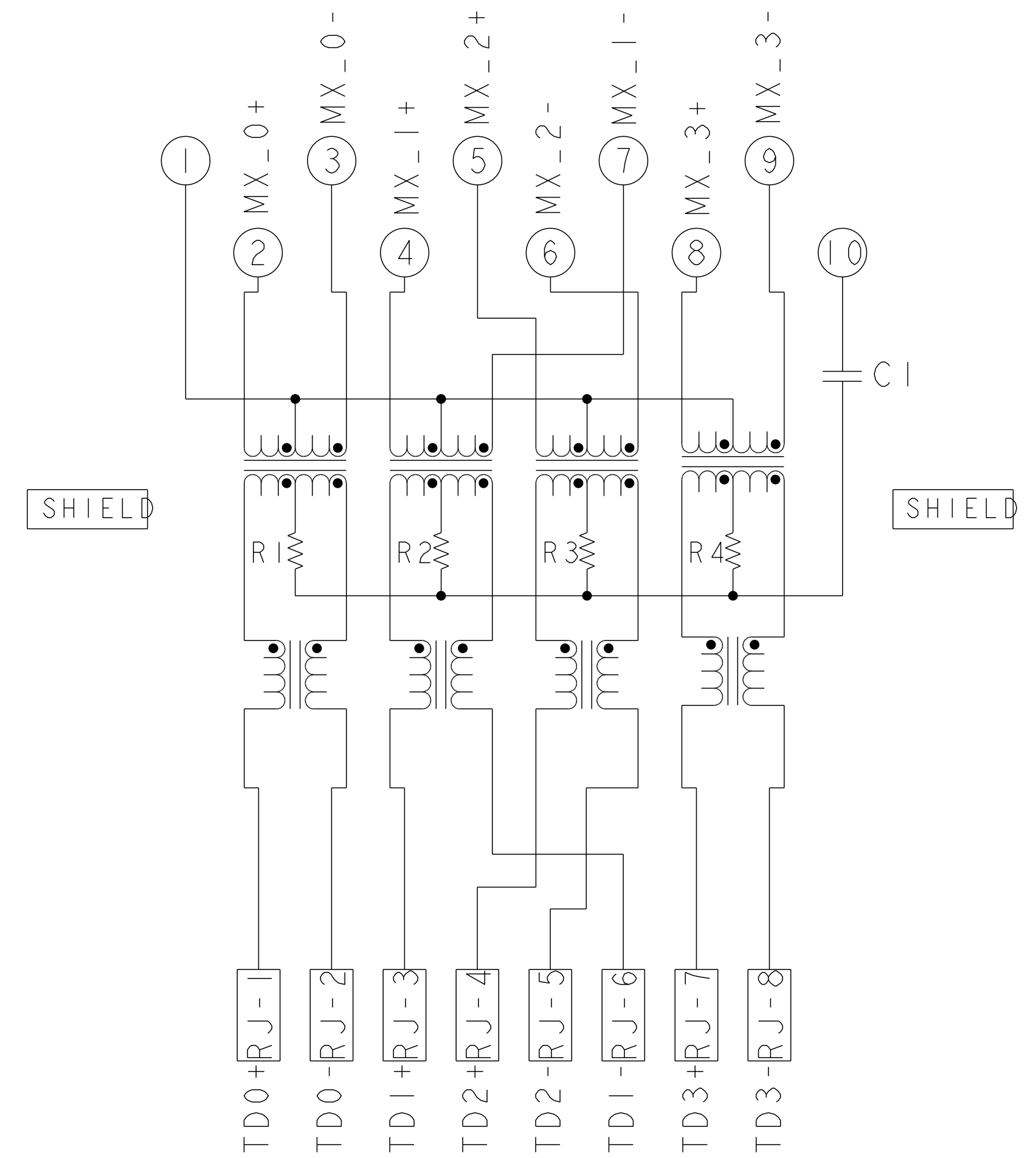
SUGGESTED PCB LAYOUT
COMPONENT SIDE



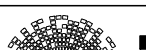
SUGGESTED PANEL CUTOUT
SCALE 4:1



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				
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±		MODEL NAME MAGJACK				
PRODUCT SPEC 108-104004		SINGLE Non-PoE				
CUSTOMER DRAWING			SIZE A1	CAGE CODE C=2250049	DRAWING NO -	
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	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm

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

PRODUCT SPEC
108-104004

DWN
ROY LIU
06JUN2013

CHK
TOWER YU/FRANK LIU
06JUN2013

APVD
TONY YUAN
06JUN2013

MODEL NAME
MAGJACK
SINGLE Non-PoE

CUSTOMER DRAWING

trp

CONNECTOR

abel group

DONGGUAN
CHINA

DESC
IXI 4G145ET GIGABIT
TAB DOWN W/O LED

SIZE
A1

CAGE CODE

DRAWING NO
C=2250049

RESTRICTED TO
-

SCALE
4:1

SHEET
3

OF
3

REV
2

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

[2250049-1](#)