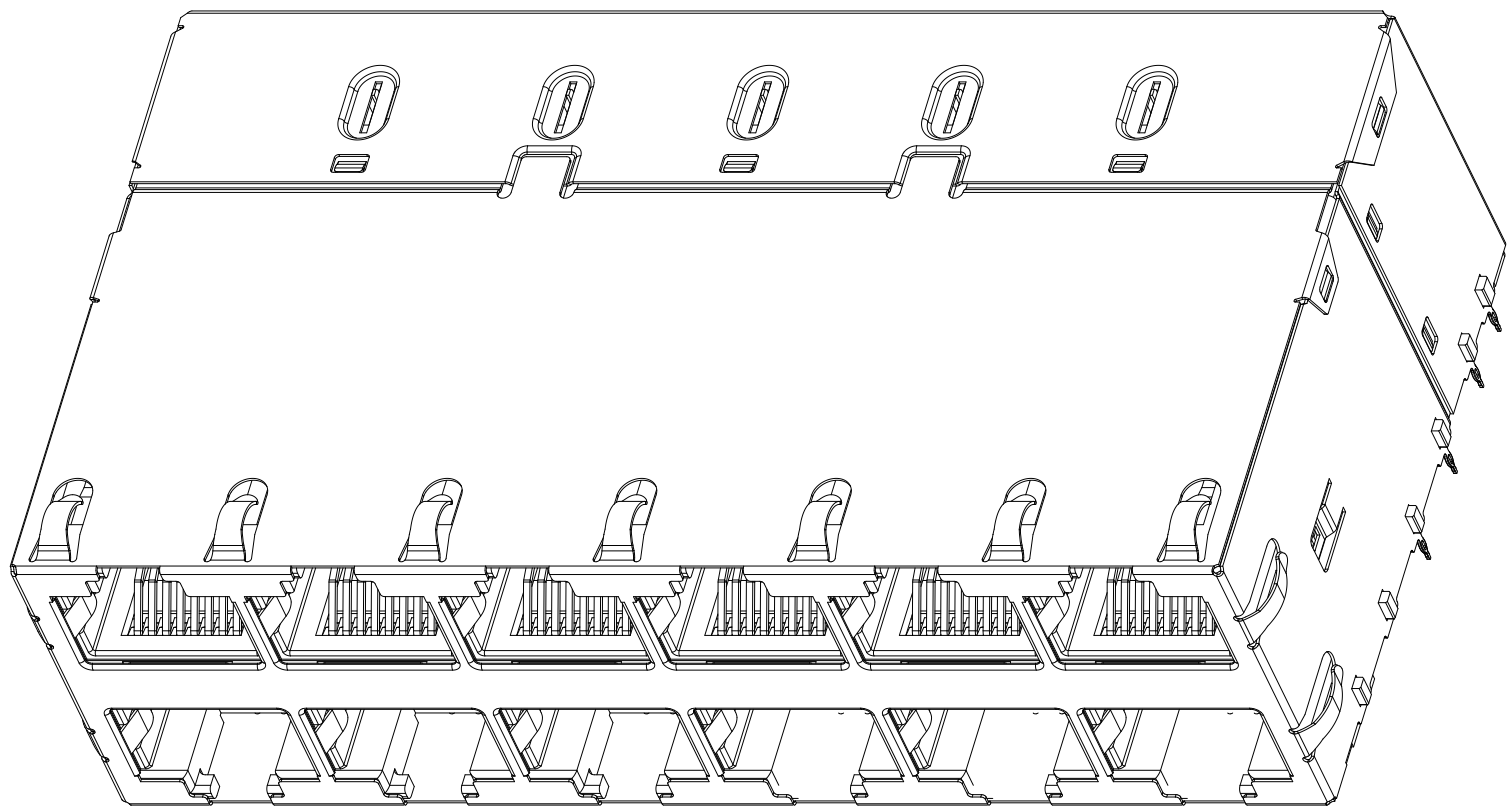


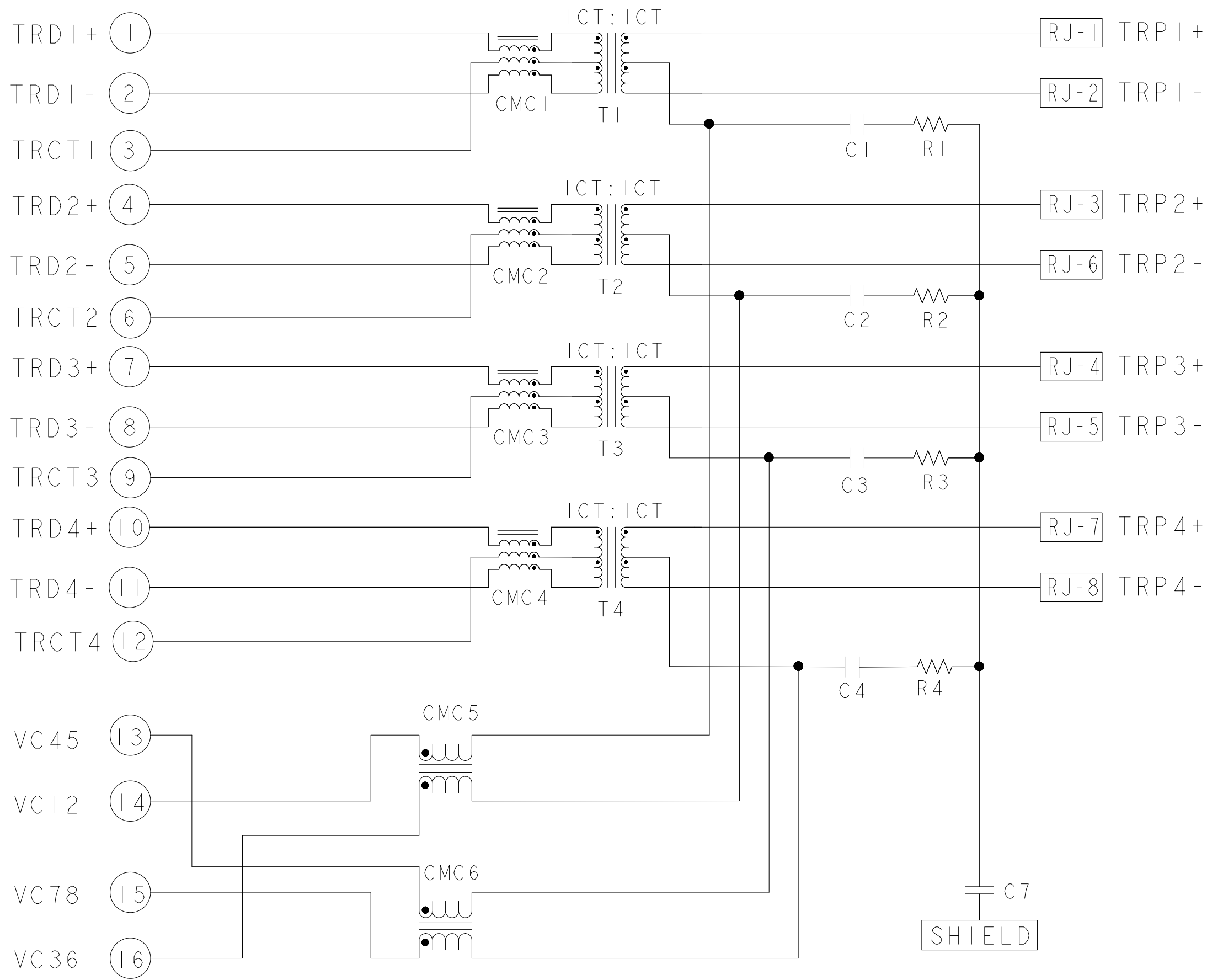
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

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

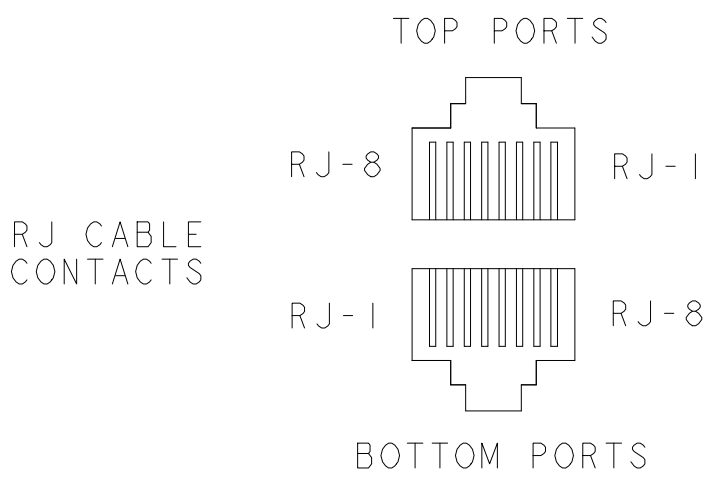
REVISIONS				
#	LYR	DESCRIPTION	DATE	DWN APVD
2		SEE FINAL SHEET	10DEC2025	RL TY



S9HTG09 10G UPOE CIRCUIT (TOP AND BOTTOM PORTS)



C1-C4= 22nF, 100V, CAPACITORS
C7= 1000pF, 2KV, CAPACITORS
R1-R4= 75 ohms, 1/16W, RESISTORS



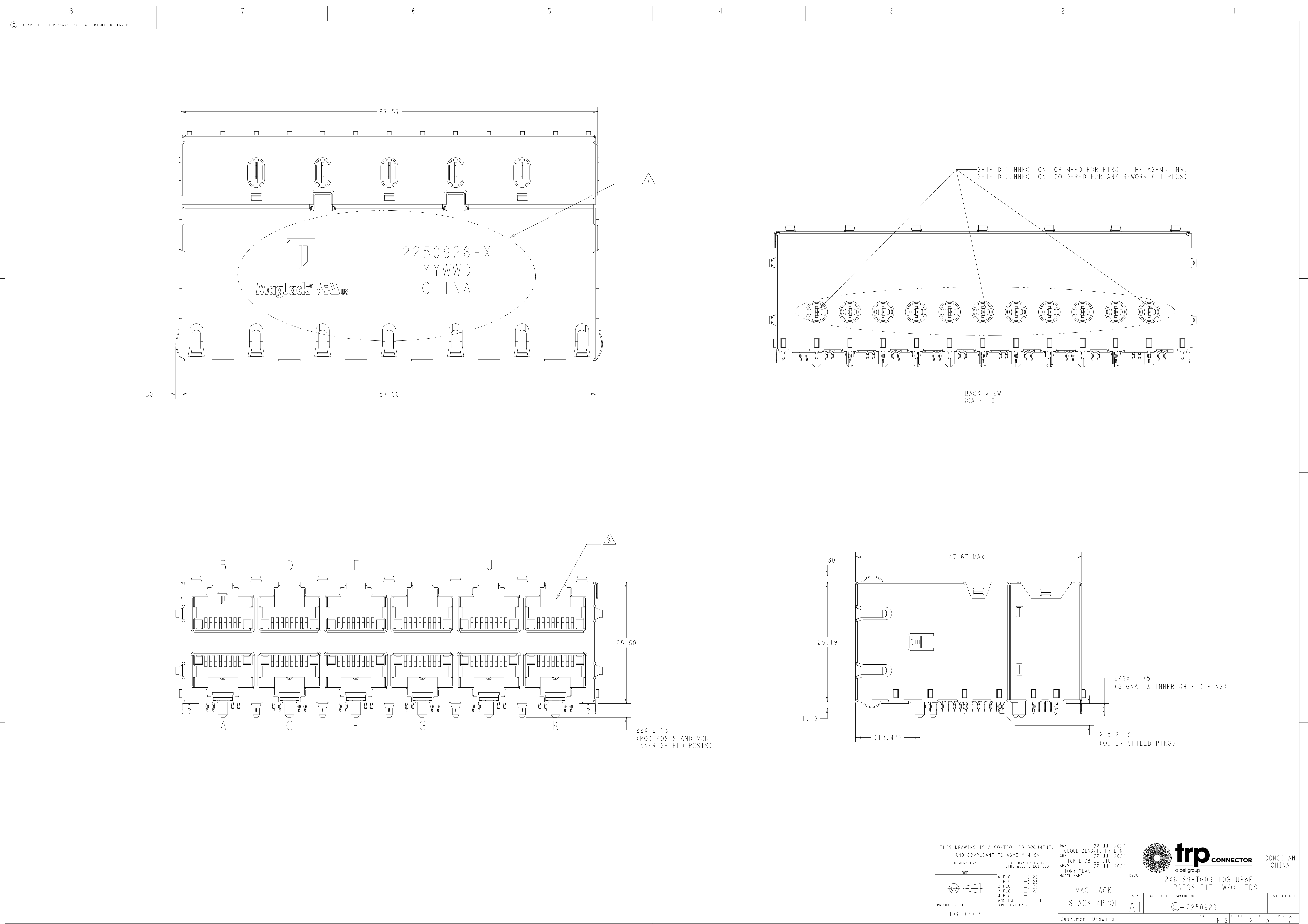
- 1 MATERIALS
HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0
SHIELD: COPPER BASE ALLOY, PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL
CONTACT: PHOSPHOR BRONZE, WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE
COMPLIANT PIN: PHOSPHOR BRONZE, PLATED WITH 2.54um MIN MATTE TIN OVER 1.27um MIN NICKEL.
- 2 MAGNETICS
- APPLICATION: 1G/10G BASE-T
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 120uH MIN @23mA, 100kHz, 0.1VRMS, ALL FOUR PAIRS.
- ALL FOUR PAIRS BI-DIRECTIONAL
- PoE CURRENT: 600 mA DC MAX
- PERFORMANCE @ 25°C (WHERE f IS FREQUENCY IN MHz)
(a) INSERTION LOSS (IL):
1MHz TO 200MHz -0.8 dB MIN
200MHz TO 400MHz -1.4 dB MIN
(b) RETURN LOSS (RL):
1MHz TO 40MHz -18 dB MAX
40MHz TO 400MHz -18+10*LOG10(f/40) dB MAX
400MHz TO 500MHz -8+30*LOG10(f/400) dB MAX
(c) CROSSTALK ATTENUATION:
1MHz TO 500MHz -20 dB MAX
(d) COMMON MODE REJECTION:
1MHz TO 250MHz -20 dB MAX
250MHz TO 500MHz -20+25*LOG10(f/250) dB MAX
- ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC, WITH ALL PORTS CONNECTED.

- 3 THE MAGNETIC CIRCUIT ON ALL FOUR CHANNELS IS SYMMETRICAL AND SUPPORTS AUTO-MDIX OPERATION.
4. OPERATING TEMPERATURE: 0°C - 70°C.
- 5 DATUM Y AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

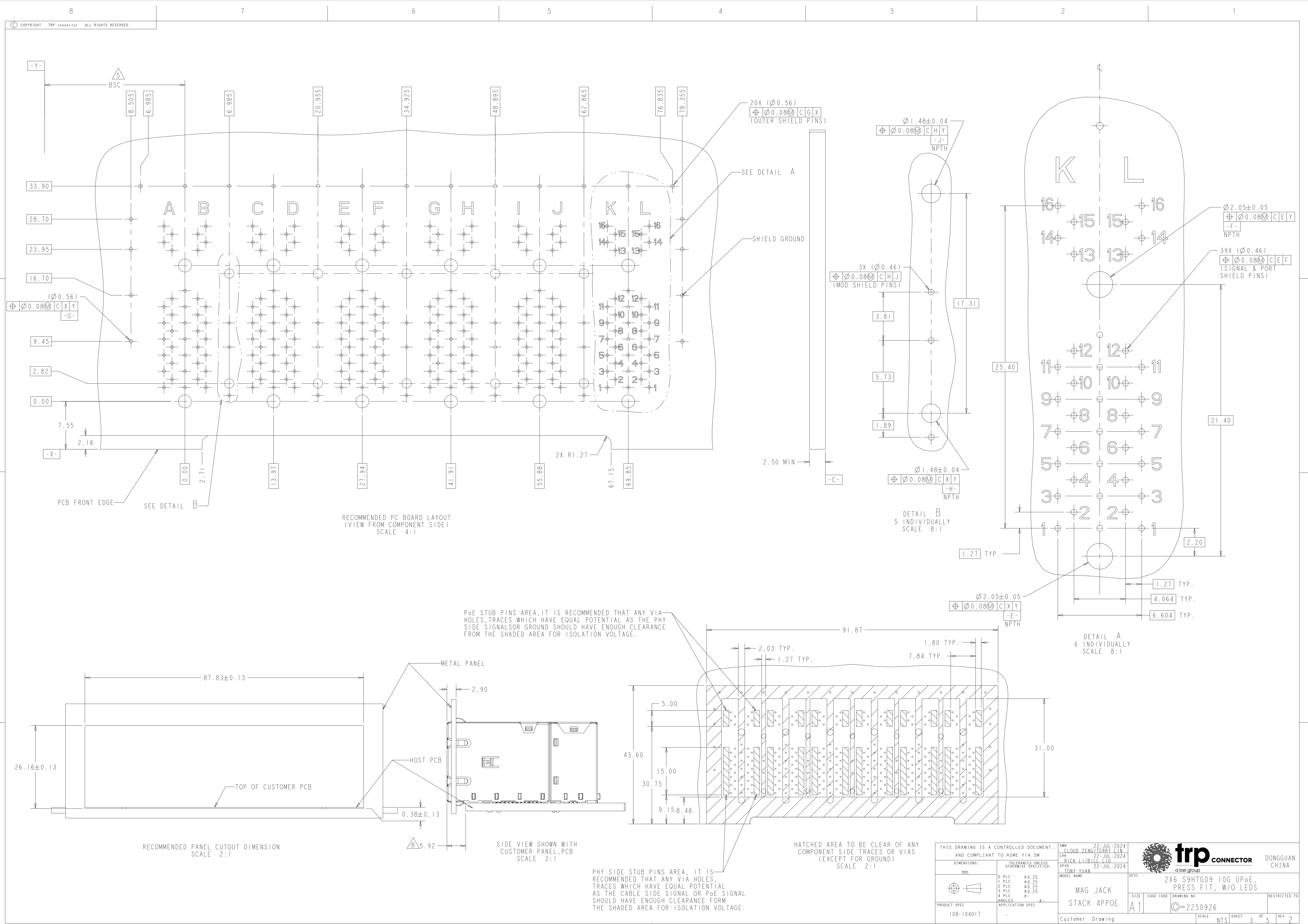
- 6 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
- 7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AGENCY APPROVAL MARKING IN APPROPRIATE LOCATION SHOWN.
DATE CODE: YYWW WHERE "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY= 1
- 8 PANEL SEATING LOCATION WITH RESPECT TO HOST PCB EDGE.
- 9 FOR HOLE SIZE AND PLATINGS, SEE SHEET 4.

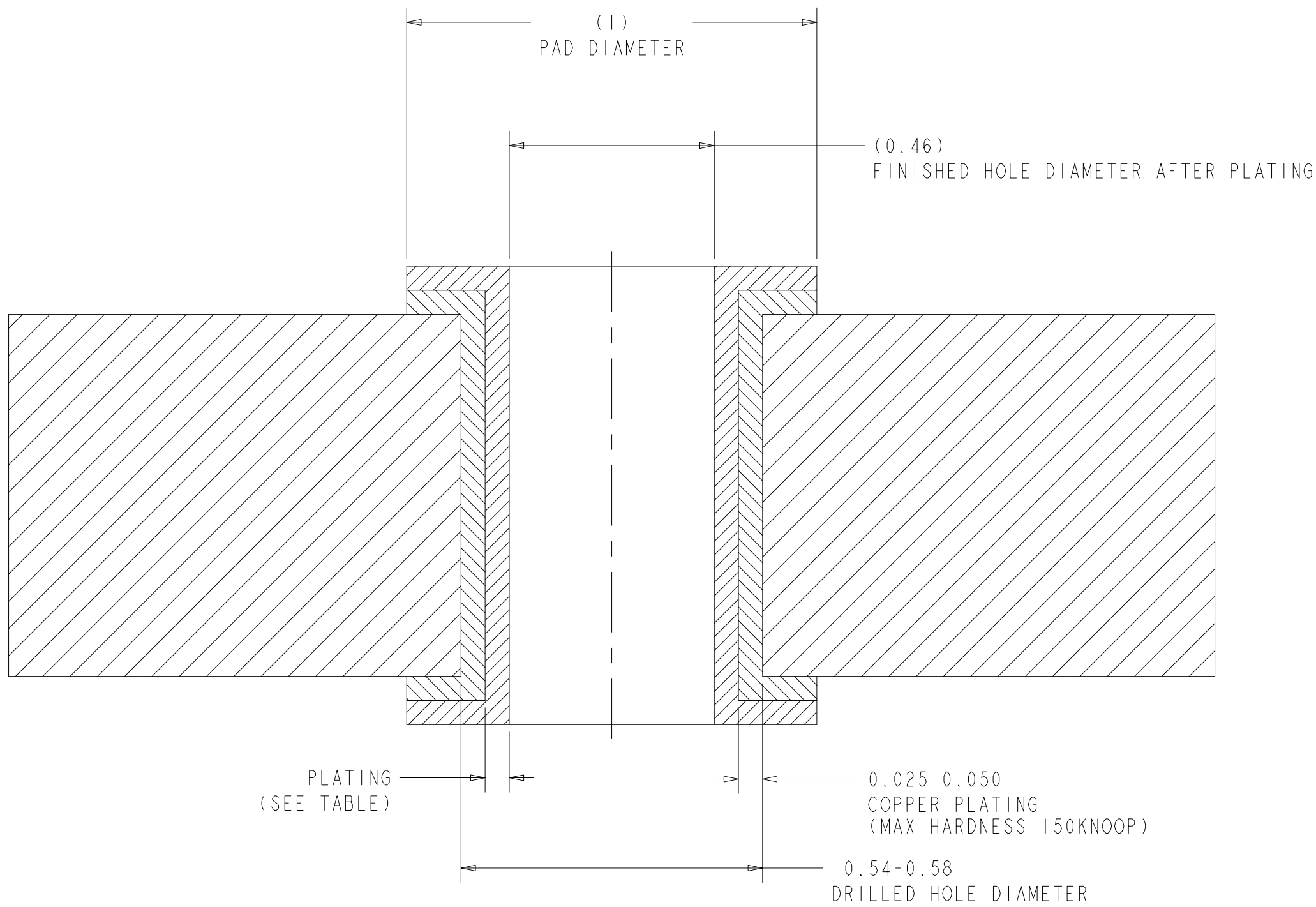
2250926-1
PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN 22-JUL-2024 CHK CLOUD ZENG/TERRY LIN 22-JUL-2024 RICK LI/BILL LIU APVD TONY YUAN 22-JUL-2024	 trp CONNECTOR a bel group DONGGUAN CHINA
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 ±°	MODEL NAME MAG JACK STACK 4PPOE	DESC 2X6 S9HTG09 10G UPoE, PRESS FIT, W/O LEDS
PRODUCT SPEC 108-104017	APPLICATION SPEC -	SIZE A1	SIZE CAGE CODE C=2250926
Customer Drawing		SCALE NTS	SHEET 1 OF 5 REV 2

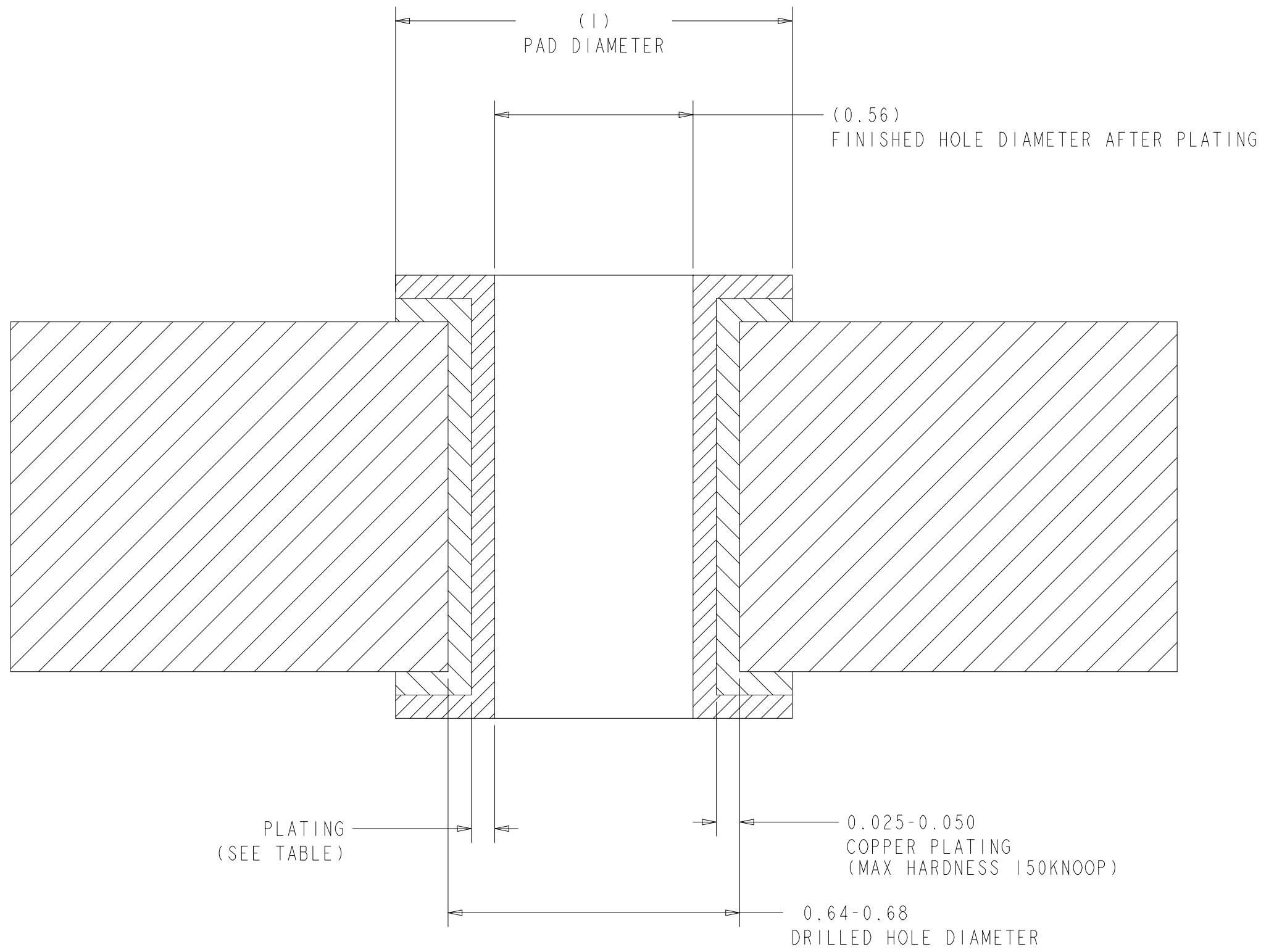


THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN 22-JUL-2024 CHK CLOUD ZENG/TERRY LIN 22-JUL-2024 RICK LI/BILL LIU APVD 22-JUL-2024 TONY YUAN		 trp CONNECTOR a bel group DONGGUAN CHINA	
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME	
mm		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±° ±°		DESC	
		APPLICATION SPEC		2X6 S9HTG09 10G UPoE, PRESS FIT, W/O LEDS	
PRODUCT SPEC		APPLICATION SPEC		RESTRICTED TO	
108-104017		-		SIZE CAGE CODE DRAWING NO	
				A1 C=2250926	
Customer Drawing				SCALE NTS SHEET 2 OF 5 REV 2	





RECOMMENDED HOLE DIMENSIONS
FOR SIGNAL CONTACTS



RECOMMENDED HOLE DIMENSIONS
FOR SHIELD CONTACTS

THICKNESS	PLATING
0.004-0.010	HOT AIR SOLDER LEVELING (HASL) TIN-LEAD (Sn Pb)
0.0005-0.001	IMMERSION TIN (Sn)
0.0002-0.0005	ORGANIC SOLDERABILITY PRESERVATIVE (OSP)
0.0001-0.0005 Au, 0.004-0.0076 Ni	IMMERSION GOLD (Au) OVER NICKEL (Ni) (ENIG)
0.010-0.025	TIN LEAD PLATING (Sn Pb)
0.0001-0.00015	IMMERSION SILVER (Ag)

THIS DRAWING IS A CONTROLLED DOCUMENT.
AND COMPLIANT TO ASME Y14.5M

DIMENSIONS:
mm

PRODUCT SPEC
108-104017

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 ±°
APPLICATION SPEC

DWN 22-JUL-2024
CHK CLOUD ZENG/TERRY LIN
22-JUL-2024
RICK LI/BILL LIU
22-JUL-2024
APVD TONY YUAN
22-JUL-2024

MODEL NAME
MAG JACK
STACK 4PPOE

DESC
2X6 S9HTG09 10G UPoE,
PRESS FIT, W/O LEDS

SIZE A1
CAGE CODE
DRAWING NO
C=2250926

RESTRICTED TO

Customer Drawing

SCALE NTS

SHEET 4 OF 5

REV 2

trp connector

DONGGUAN CHINA

2250926					STOCK DISPOSITION A: CONTINUE AS IS B: REWORK C: SCRAP D: USE OLD FIRST E: PARTS TO CONFORM F: OTHER			
2X6 S9HTG09 10G UPoE, PRESS FIT, W/O LEDS								
REVISION HISTORY								
DATE	REV	CHANGES	REASON	APPROVAL	INVENTORY (A.B.C.D.E.F)	WORK IN PROCESS (A.B.C.D)	SUPPLIER ORDERS (A.E.F.)	OPEN CUST ORDERS (A.E.F)
22JUL2024	1	INITIAL RELEASE	INITIAL RELEASE	TY	-	-	-	-
10DEC2025	2	ADD SOME DIMENSIONS FOR RESTRICTED ZONE	DRAWING CLARIFICATION	TY	-	-	-	-