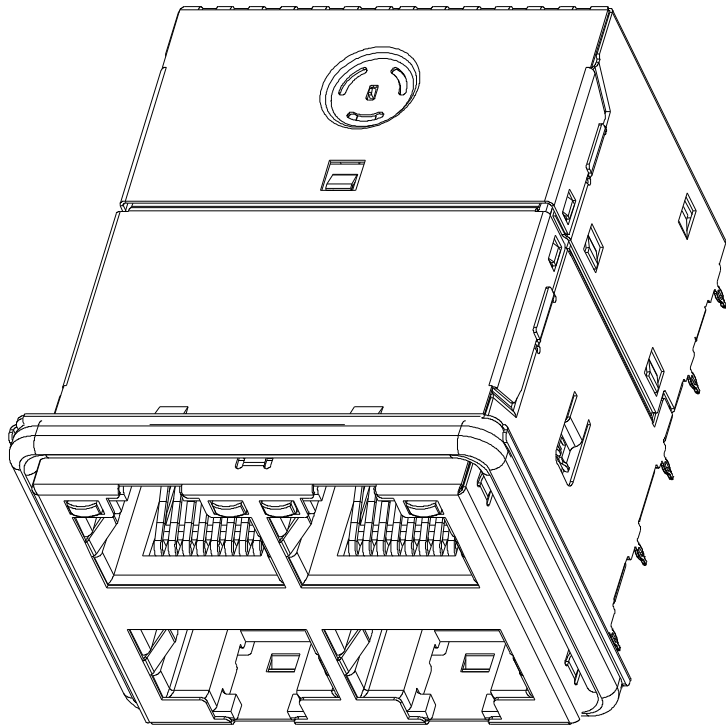


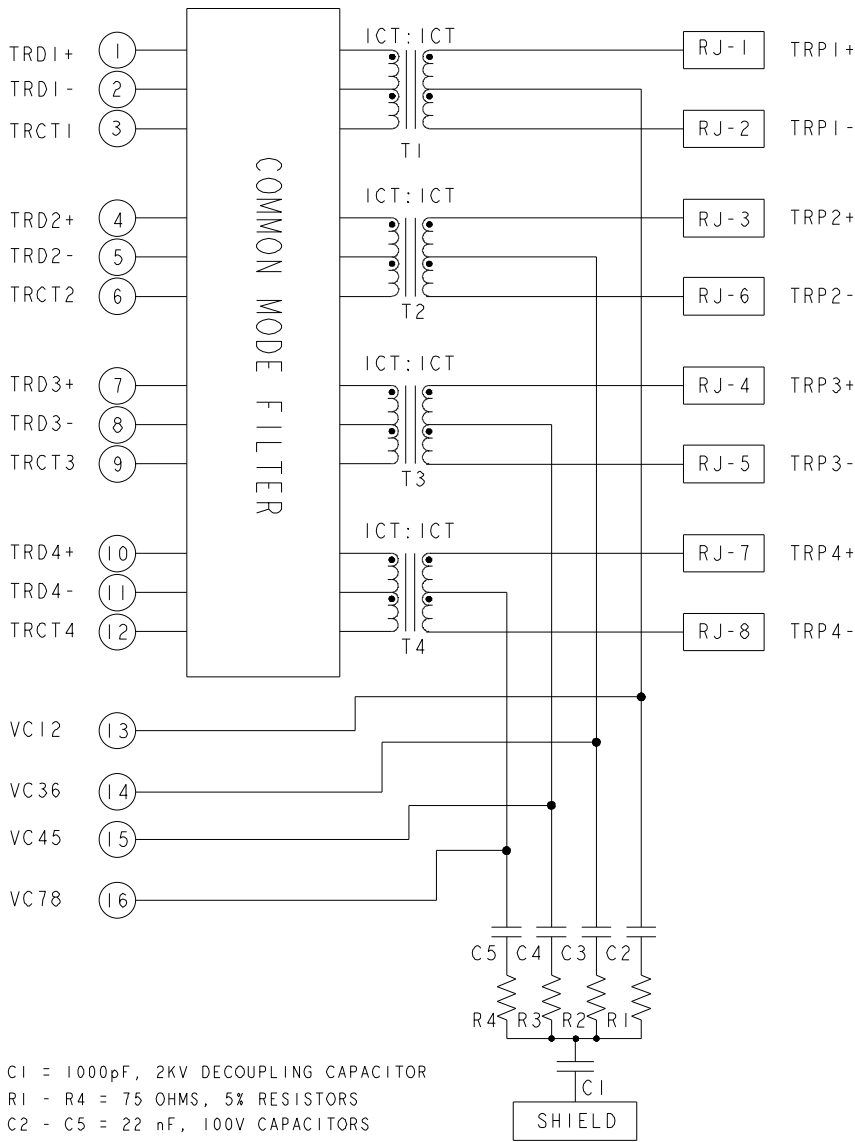
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

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

REVISONS				
#	LYR	DESCRIPTION	DATE	OWN
1		INITIAL RELEASE	19JUL2024	CZ



S9HTG08ET 10G 4PPoE CIRCUIT



C1 = 1000pF, 2KV DECOUPLING CAPACITOR
R1 - R4 = 75 OHMS, 5% RESISTORS
C2 - C5 = 22 nF, 100V CAPACITORS

1. MATERIALS
HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0
SHIELD: NICKEL OR TIN PLATED ON COPPER ALLOY
COMPLIANT PIN: PHOSPHOR BRONZE, PLATED WITH 2.54um MIN MATTE TIN OVER 1.27um MIN NICKEL
CONTACT: PHOSPHOR BRONZE, WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE

2. MAGNETICS
- APPLICATION: 1G/2.5G/5G/10G BASE-T, EXTENDED TEMPERATURE
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 120uH MIN @100kHz, 0.1VRMS, 19mA DC BIAS, FROM -40°C TO 85°C.
ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTIONAL
- PoE CURRENT: 600mADC
- PERFORMANCE @ 25°C (WHERE f IS FREQUENCY IN MHz)
(a) INSERTION LOSS (IL):
1 MHz TO 400 MHz -0.5-1.3*(f-1)/400 dB MIN
(b) RETURN LOSS (RL):
1 MHz TO 100 MHz -17 dB MAX
100 MHz TO 500 MHz -17 + 20.75LOG10(f/100) dB MAX
(c) CROSSTALK ATTENUATION:
1 MHz TO 500 MHz -20 dB MAX
(d) COMMON MODE REJECTION:
1 MHz TO 500 MHz -16 dB MAX
- ISOLATION VOLTAGE: 2250VDC 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: -40°C - 85°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: YYWD WHERE "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY= 1

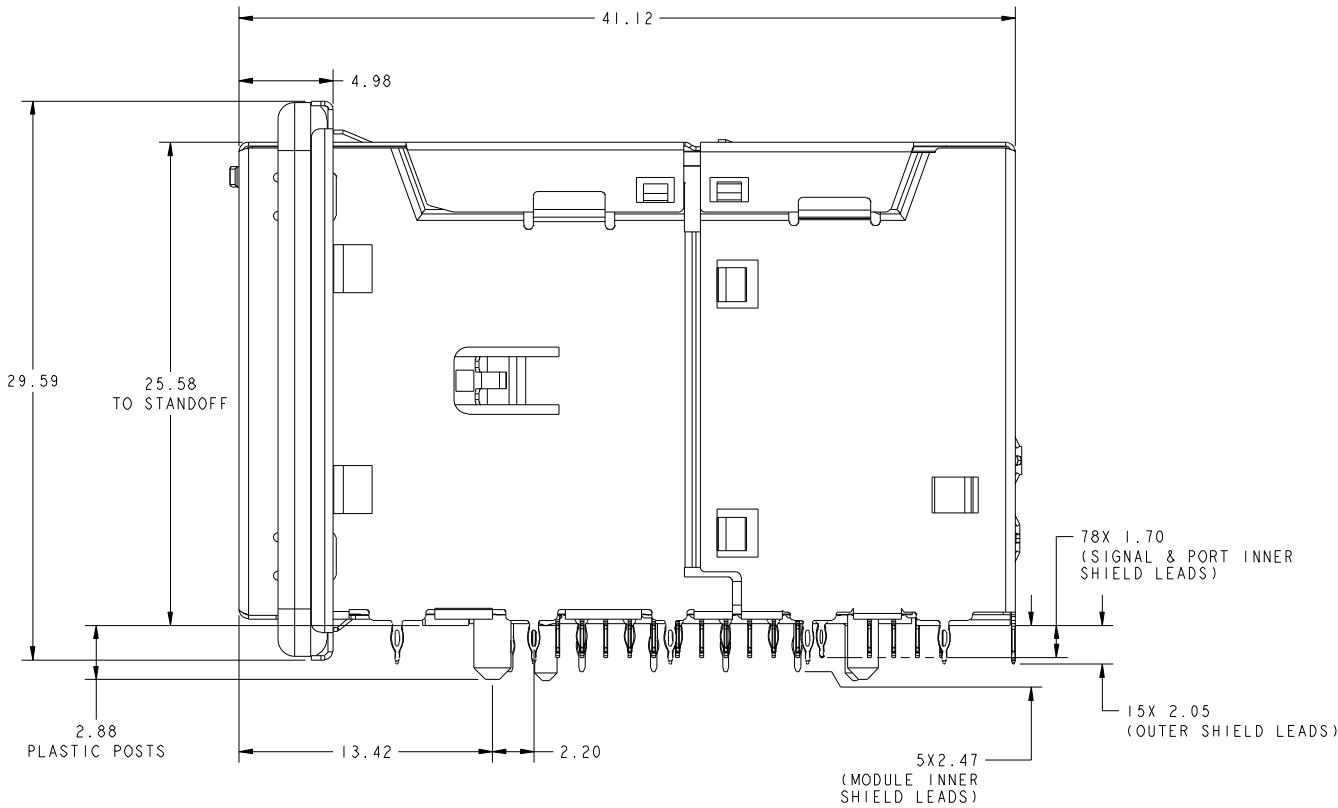
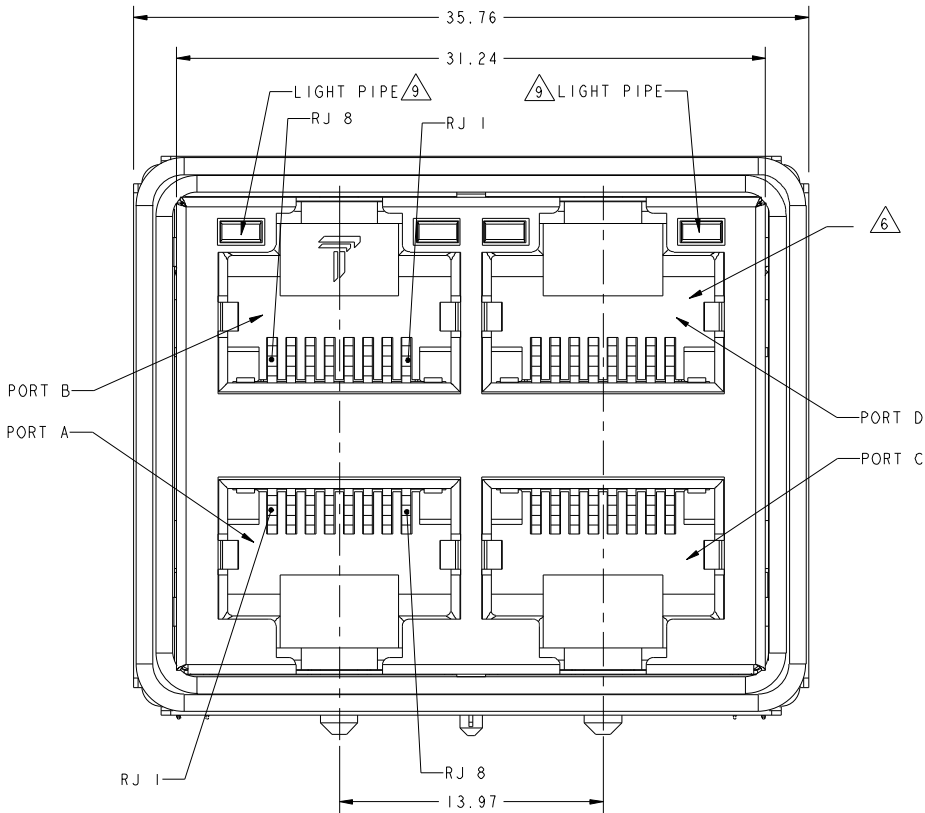
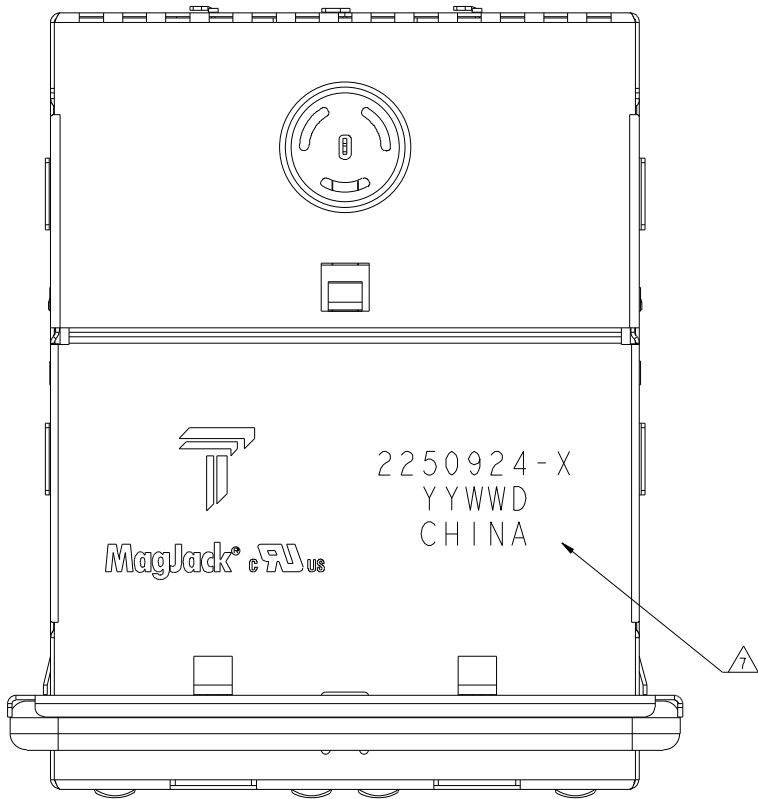
8. PANEL SEATING LOCATION WITH RESPECT TO CUSTOMER PCB EDGE.

9. THE FINISHED GOODS IS WITHOUT SMD LED, THE SMD LED IS PROVIDED BY CUSTOMER HERSELF, AND THE SMD LED IS MOUNTED ON CUSTOMER PCB.

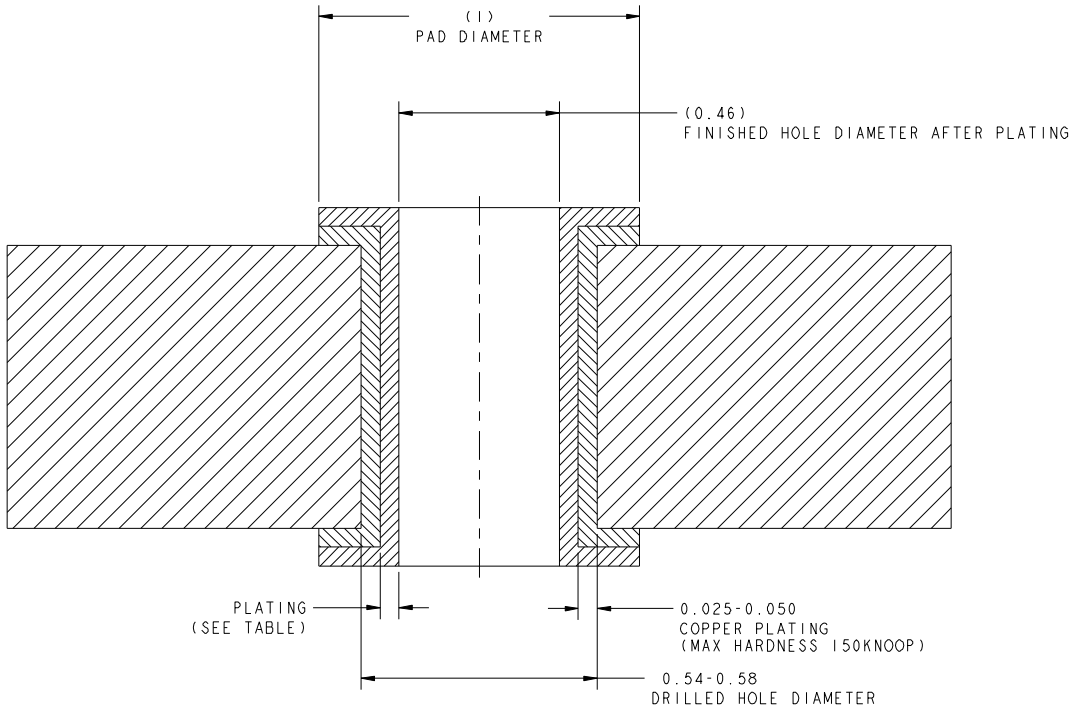
10. FOR HOLE SIZE AND PLATINGS, SEE SHEET 4.

2250924-1
PART NUMBER

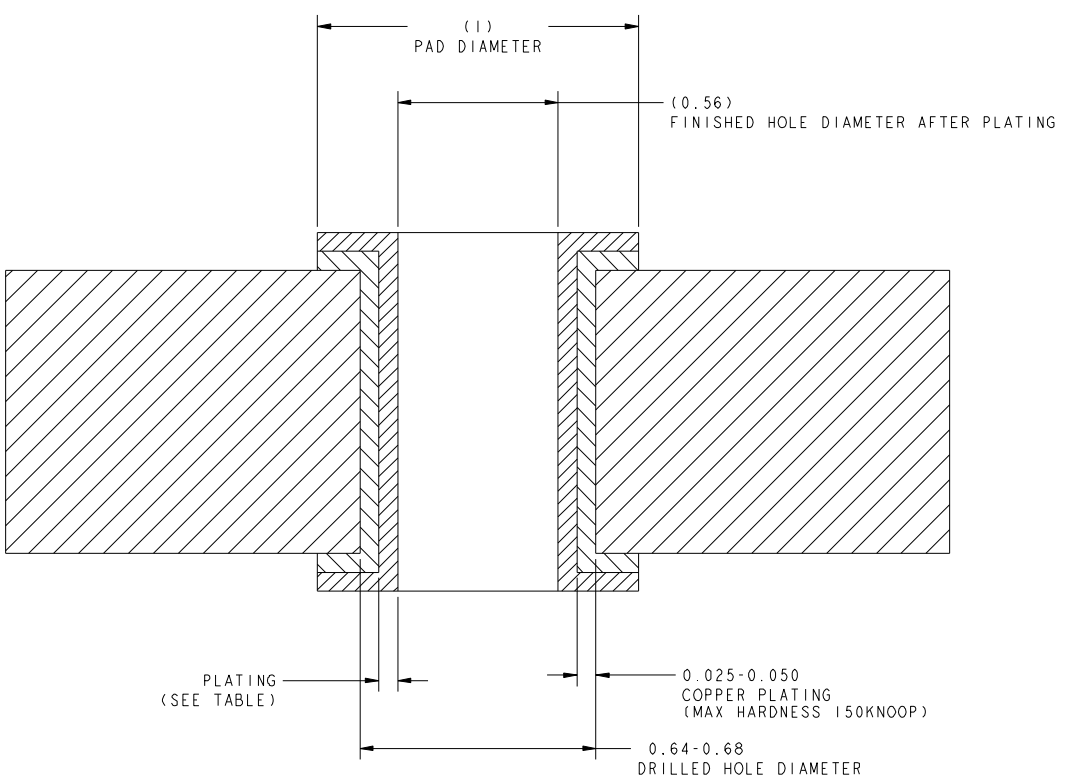
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN CLOUD ZENG / TERRY LIN CHK RICK LI / BILL LIO APVD TONY YUAN	19JUL2024 19JUL2024 19JUL2024	 trp CONNECTOR DONGGUAN CHINA	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±°	MODEL NAME MAGJACK STACK 4PPoE	DESC 2X2, S9HTG08ET 10G 60W 4PPoE WITH LIGHT PIPE	SIZE A1	RESTRICTED TO -
PRODUCT SPEC 108-104017	APPLICATION SPEC -	CUSTOMER DRAWING	SCALE NTS	SHEET 1	REV 1



THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN CLOUD ZENG / TERRY LIN 19JUL2024	 trp CONNECTOR DONGGUAN CHINA	
DIMENSIONS: mm		CHK RICK LI / BILL LIU 19JUL2024		
	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 ±°	APVD TONY YUAN 19JUL2024	DESC 2X2, S9HTG08ET 10G 60W 4PPoE WITH LIGHT PIPE	
		MODEL NAME MAGJACK STACK 4PPoE	SIZE A1	RESTRICTED TO -
PRODUCT SPEC 108-104017	APPLICATION SPEC -	CUSTOMER DRAWING		SCALE NTS
		SHEET 2 OF 6		REV 1



RECOMMENDED HOLE DIMENSIONS
FOR SIGNAL & INNER SHIELD CONTACTS



RECOMMENDED HOLE DIMENSIONS
FOR OUTER 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

-

OWN
CLOUD ZENG / TERRY LIN
19JUL2024

CHK
RICK LI / BILL LIU
19JUL2024

APVD
TONY YUAN
19JUL2024

MODEL NAME

MAGJACK
STACK 4PPoE

CUSTOMER DRAWING

DESC

2X2, S9HTG08ET 10G 60W 4PPoE
WITH LIGHT PIPE

SIZE

A1

CAGE CODE

DRAWING NO

2250924

RESTRICTED TO

-

SCALE

NTS

SHEET

4

OF

6

REV

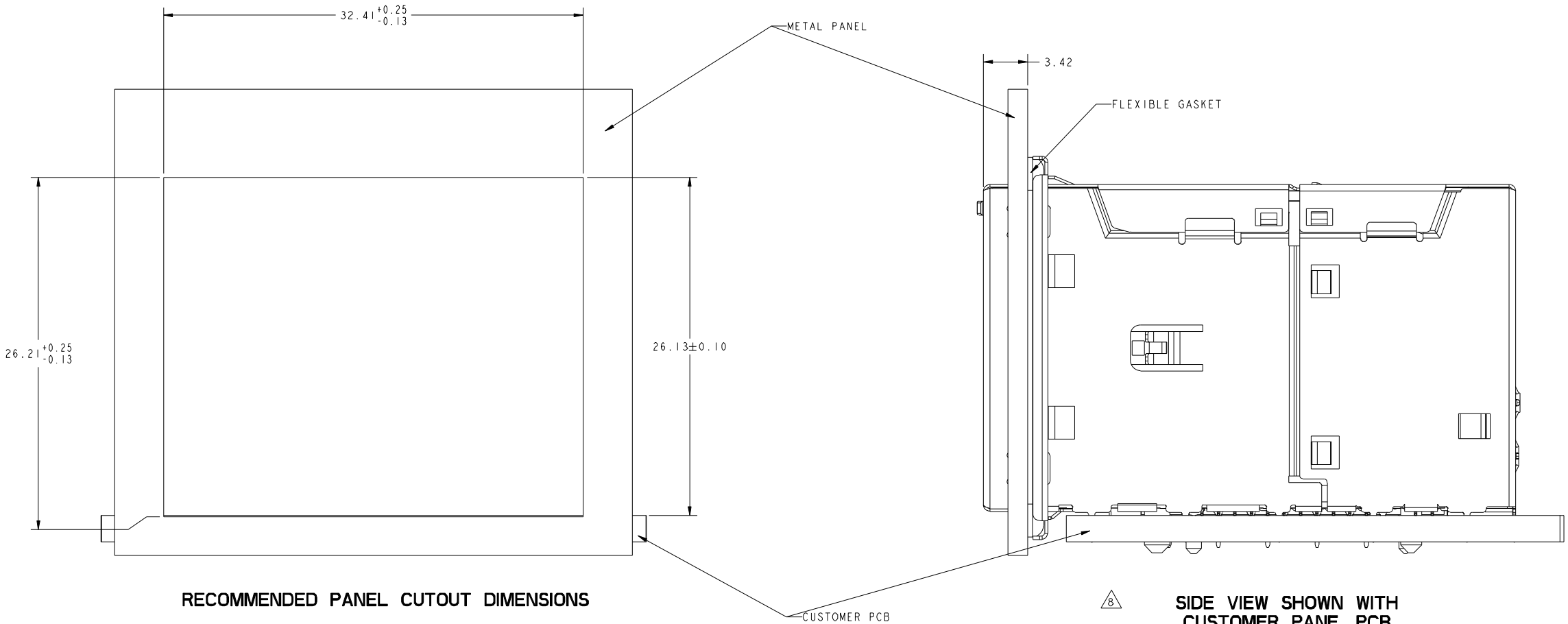
1



trpCONNECTOR

DONGGUAN CHINA

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THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN CLOUD ZENG / TERRY LIN 19JUL2024	 trp CONNECTOR DONGGUAN CHINA	
DIMENSIONS: mm		CHK RICK LI / BILL LIU 19JUL2024		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TONY YUAN 19JUL2024	DESC 2X2, S9HTG08ET 10G 60W 4PPoE WITH LIGHT PIPE	
PRODUCT SPEC 108-104017		MODEL NAME MAGJACK STACK 4PPoE	SIZE A1	RESTRICTED TO -
APPLICATION SPEC -		CUSTOMER DRAWING	SCALE NTS	SHEET 5 OF 6 REV 1

D

D

C

C

B

B

A

A

2250924					STOCK DISPOSITION			
2X2, S9HTG08ET 10G 60W 4PPoE, WITH LIGHT PIPE					A: CONTINUE AS IS D: USE OLD FIRST B: REWORK E: PARTS TO CONFORM C: SCRAP F: OTHER			
REVISION HISTORY								
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)
19 JUL 2024	I	-	INITIAL RELEASE	TONY YUAN	-	-	-	-

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 ±
ANGLES ±°

APPLICATION SPEC

-

DWN
CLOUD ZENG / TERRY LIN
19 JUL 2024

CHK
RICK LI / BILL LIU
19 JUL 2024

APVD
TONY YUAN
19 JUL 2024

MODEL NAME

MAGJACK
STACK 4PPoE

CUSTOMER DRAWING

trp

CONNECTOR

DONGGUAN CHINA

DESC

2X2, S9HTG08ET 10G 60W 4PPoE
WITH LIGHT PIPE

SIZE

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OF

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