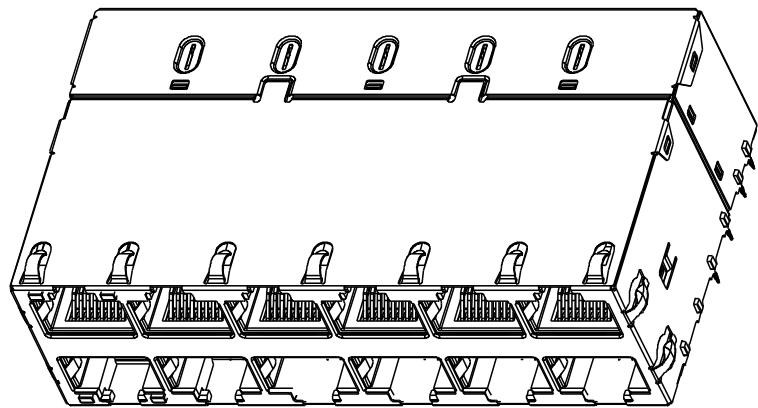


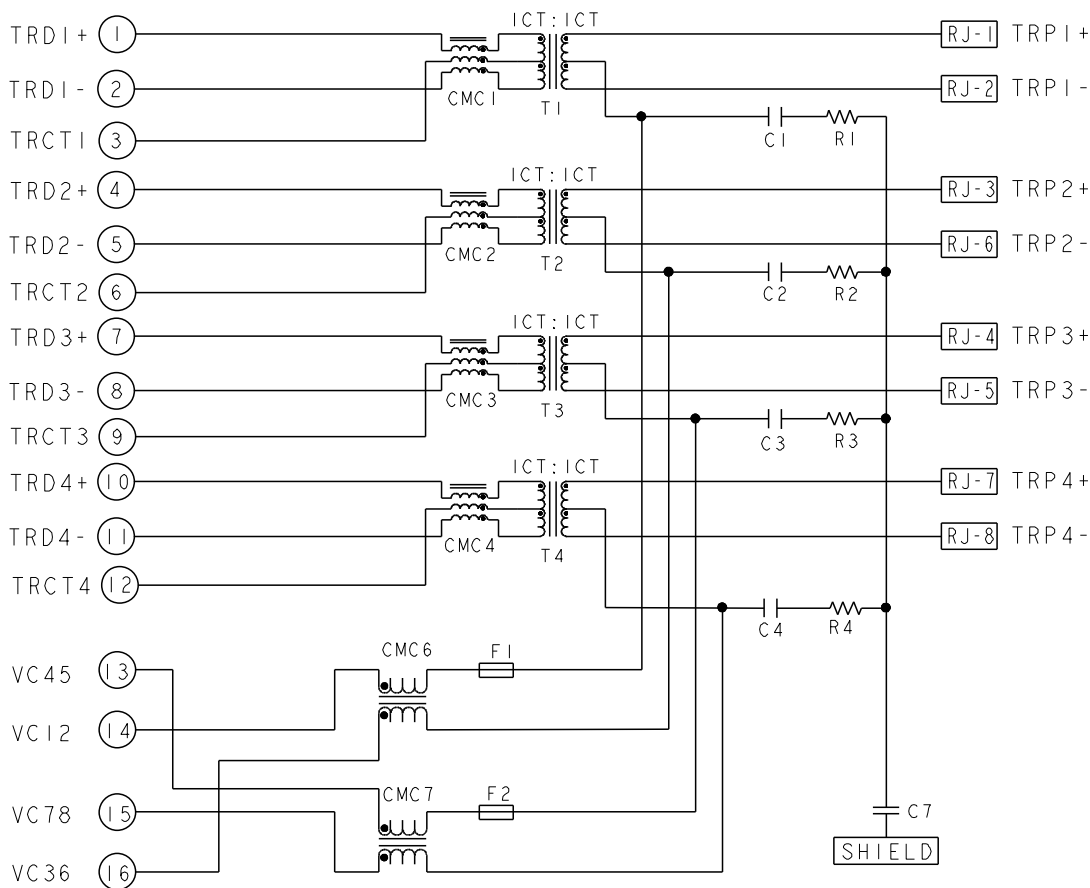
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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

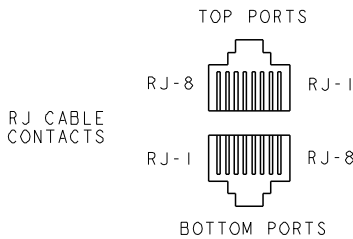
REVISIONS				
#	LYR	DESCRIPTION	DATE	DWN APVD
3		UPDATED DRAWING	04DEC2015	CZ TY



10G UPOE BASE-T CIRCUIT



C1-C4: 22nF, 100V, CAPACITORS
C7: 1000pF, 2KV, CAPACITORS
R1-R4: 75 ohms, 1/16W, RESISTORS
F1, F2: 63V, 1.5A, FUSES



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 @100kHz, 0.1VRMS,
19mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTIONAL
- PoE CURRENT: 600mADC
- PERFORMANCE @ 25°C (WHERE f IS FREQUENCY IN MHZ):
(a) RL (MAX)
1 MHz - 100 MHz -20 dB
100 MHz - 400 MHz -18 + 8lg (f/100)
400 MHz - 600MHz -13 + 30lg (f/400)
600 MHz - 800MHz -8 + 60lg (f/600)
(b) IL (MIN)
1MHz - 400MHz -0.5-1.3*(f-1)/400
(c) CM TO DM (MAX)
1 MHz TO 500 MHz -20 dB
(d) DM TO CM (MAX)
1 MHz TO 500 MHz -20 dB
- 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: YYWD WHERE "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY= 1

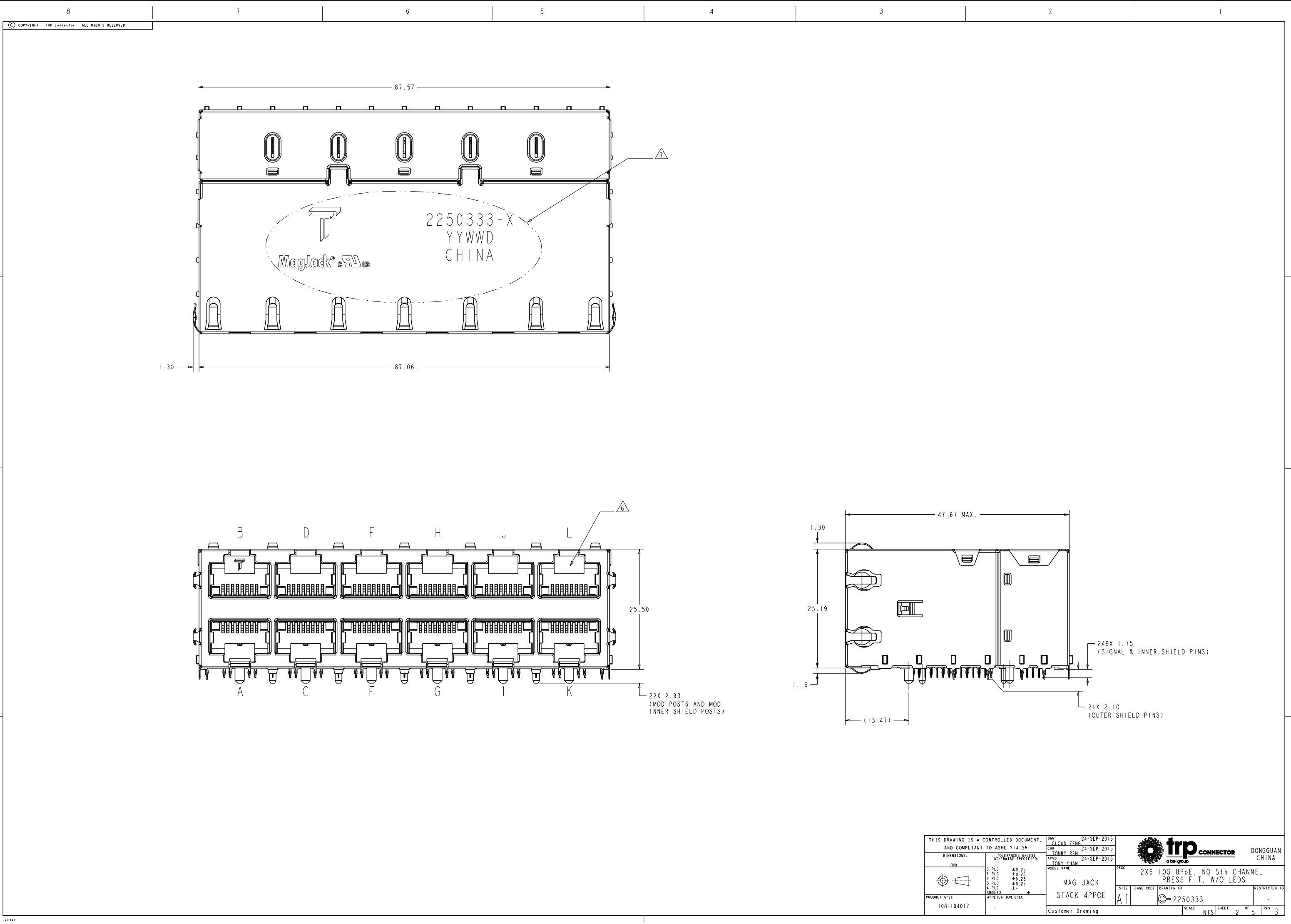
8 PANEL SEATING LOCATION WITH RESPECT TO HOST PCB EDGE.

9 FOR HOLE SIZE AND PLATINGS, SEE SHEET 4.

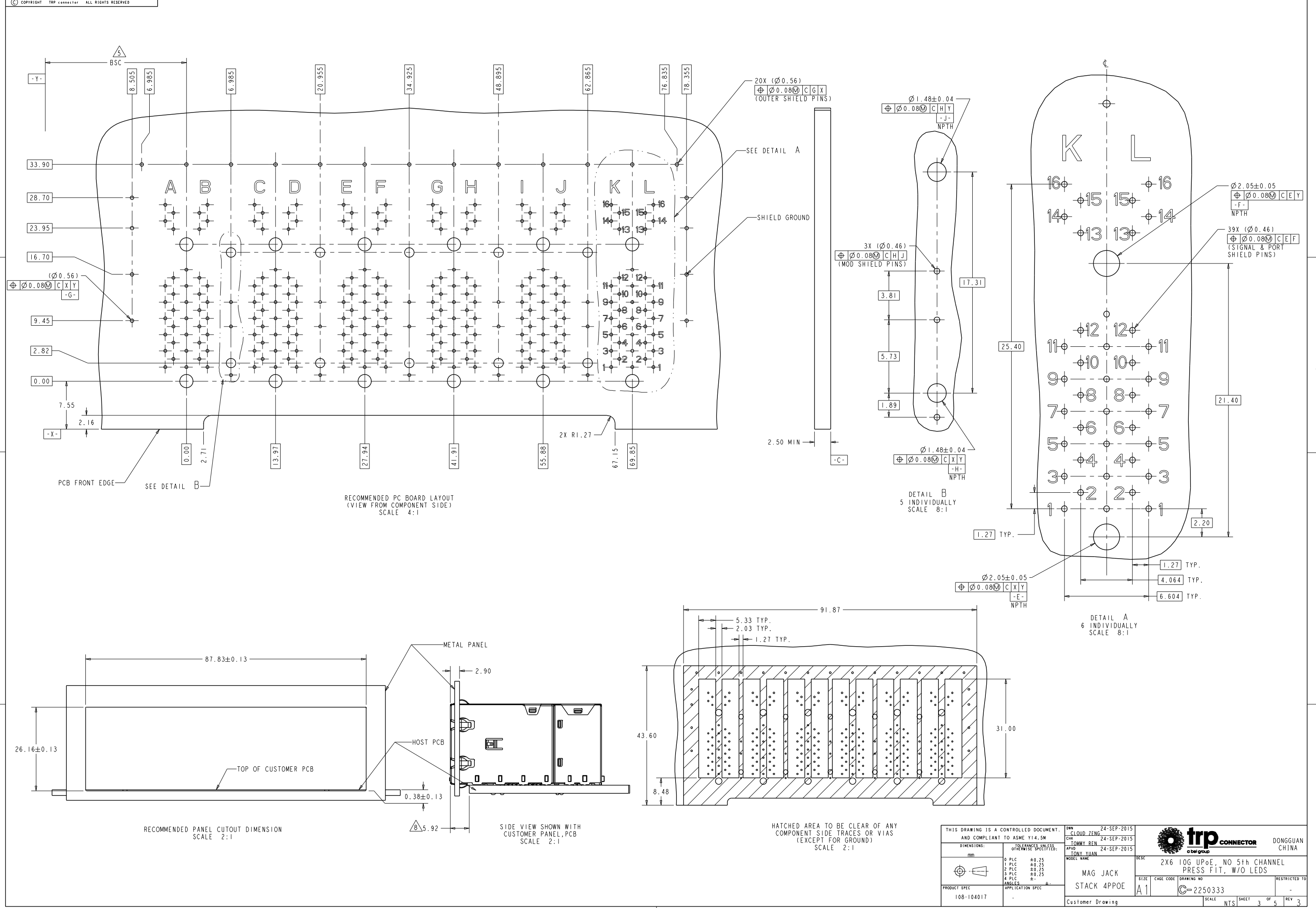
2250333-1

PART NUMBER

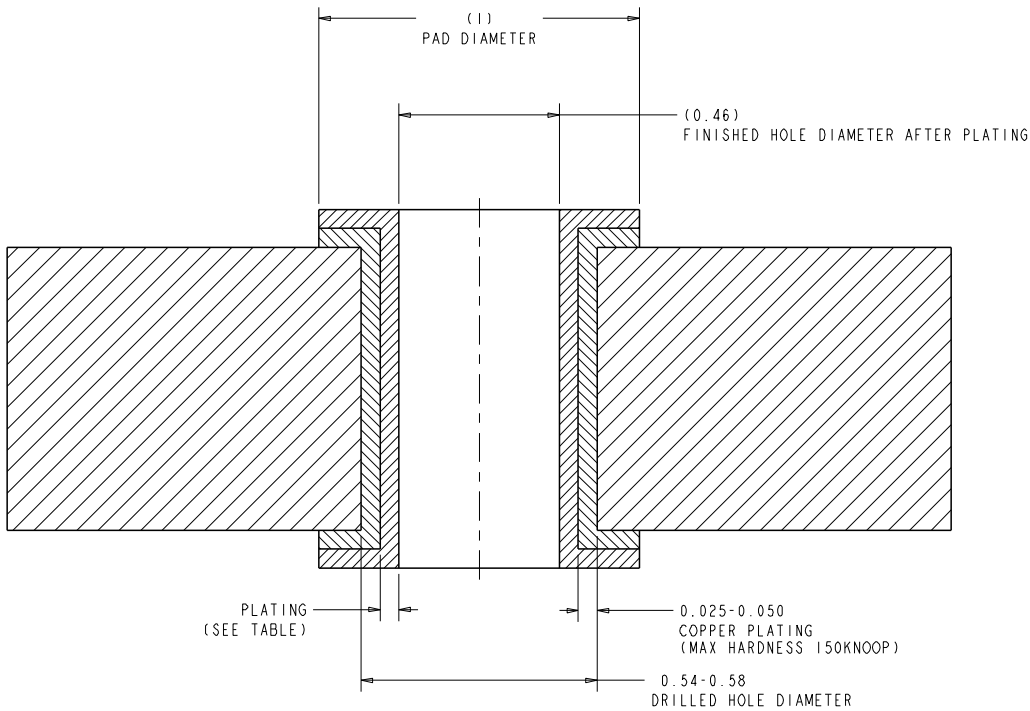
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN CLOUD ZENG 24-SEP-2015 CHK TOMMY REN 24-SEP-2015 APVD TONY YUAN 24-SEP-2015	 trp CONNECTOR a bel group DONGGUAN CHINA
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±°	MODEL NAME MAG JACK STACK 4PPOE	DESC 2X6 10G UPOE, NO 5th CHANNEL PRESS FIT, W/O LEDS
PRODUCT SPEC 108-104017	APPLICATION SPEC -	SIZE A1	RESTRICTED TO -
Customer Drawing		SCALE NTS	SHEET 1 OF 5 REV 3



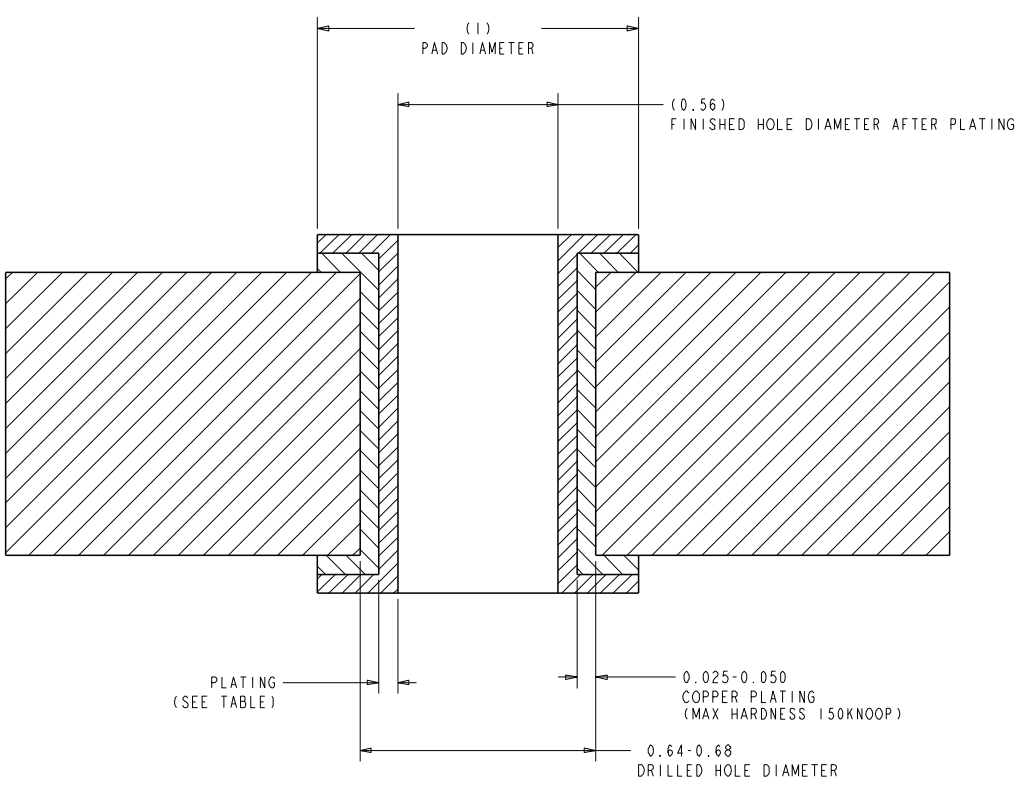
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN CLOUD ZENG 24-SEP-2015	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	CHK TOMMY REN 24-SEP-2015				
mm	0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±°	APVD TONY YUAN 24-SEP-2015	MODEL NAME MAG JACK STACK 4PPOE		DESC 2X6 10G-UPoE, NO 5th CHANNEL PRESS FIT, W/O LEDS	RESTRICTED TO
PRODUCT SPEC 108-104017	APPLICATION SPEC -		SIZE A1	CAGE CODE C=2250333	DRAWING NO -	REV 3
Customer Drawing			SCALE NTS	SHEET 2	OF 5	REV 3



THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN CLOUD ZENG 24-SEP-2015	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK TOMMY REN 24-SEP-2015				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TONY YUAN 24-SEP-2015	DESC 2X6 10G-UPoE, NO 5th CHANNEL PRESS FIT, W/O LEDS		RESTRICTED TO	
PRODUCT SPEC 108-104017		MODEL NAME MAG JACK STACK 4PPOE		SIZE A1	CAGE CODE C=2250333	REV 3
APPLICATION SPEC		Customer Drawing		SCALE NTS	SHEET 3	OF 5



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
CLOUD ZENG
24-SEP-2015

CHK
TOMMY REN
24-SEP-2015

APVD
TONY YUAN
24-SEP-2015

MODEL NAME

MAG JACK
STACK 4PPOE

Customer Drawing

trpCONNECTOR
a bel group

DONGGUAN
CHINA

DESC

2X6 10G-UPoE, NO 5th CHANNEL
PRESS FIT, W/O LEDS

SIZE

A1

CAGE CODE

DRAWING NO

©=2250333

RESTRICTED TO

-

SCALE

NTS

SHEET

4

OF

5

REV

3

C_2250333					STOCK DISPOSITION			
2X6 MAG45 MODULAR JACK, 10 GIGABIT, UPOE, NO 5th CHANNEL, PRESS-FIT					A: CONTINUE AS IS B: REWORK C: SCRAP		D: USE OLD FIRST E: PARTS TO CONFORM F: OTHER	
REVISION HISTORY					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)
DATE	REV	CHANGES	REASON	APPROVAL				
24-SEP-2015	1	INITIAL RELEASE.	N/A.	TONY YUAN	-	-	-	-
02-NOV-2015	2	SHEET 2 : REMOVE BOTTOM VIEW	N/A	TONY YUAN	-	-	-	-
04-DEC-2015	3	SHEET 1 A7 ZONE: CHANGE "R1-R3: 75 ohms,1/16W,RESISTORS" TO "R1-R4: 75 ohms,1/16W,RESISTORS" REMOVE "R4: 300 ohms,RESISTORS"	USE A 75 ohms RESISTOR ON CHANNEL D	TONY YUAN	-	-	-	-

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