

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
1		INITIAL RELEASE	16JUL2024	JY

- △ MATERIALS:
- HOUSING: THERMOPLASTIC FLAMMABILITY, RATING, UL 94V-0
 - SHIELD: STAINLESS STEEL 0.15mm THICK, PREPLATED WITH 0.76 um MIN SEMI-BRIGHT NICKEL; SOLDER TABS POST PREPLATED WITH 3um TIN.
 - MOD JACK CONTACTS: 0.3mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, WITH 1.27um MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE;
 - LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 0.5mm X 0.5mm CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03um MIN. SILVER PLATE OVER 1.02um MIN. NICKEL OVER 1.02um MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05um MIN. MATTE TIN.

- △ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.

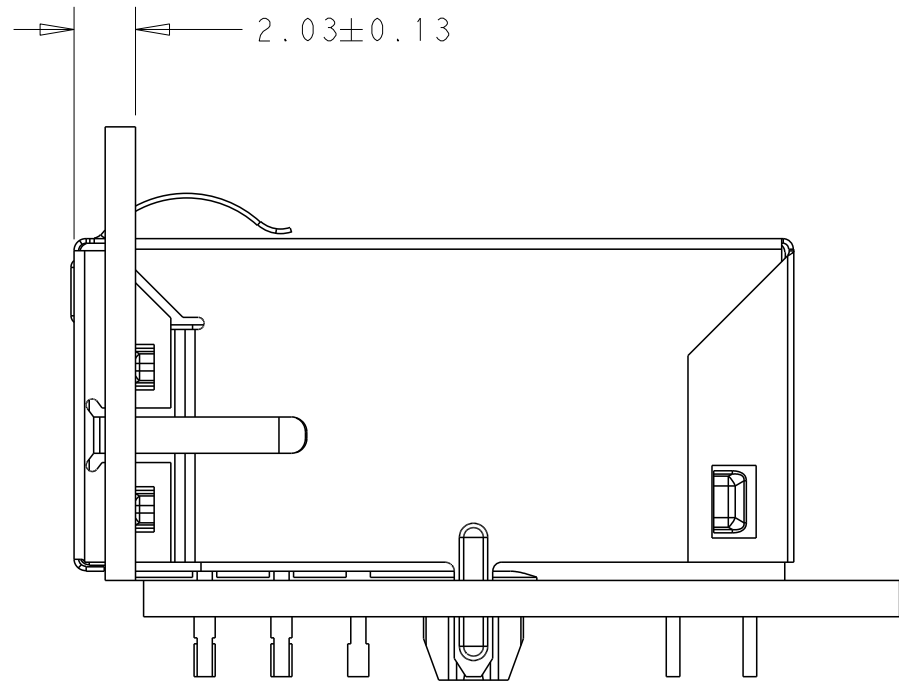
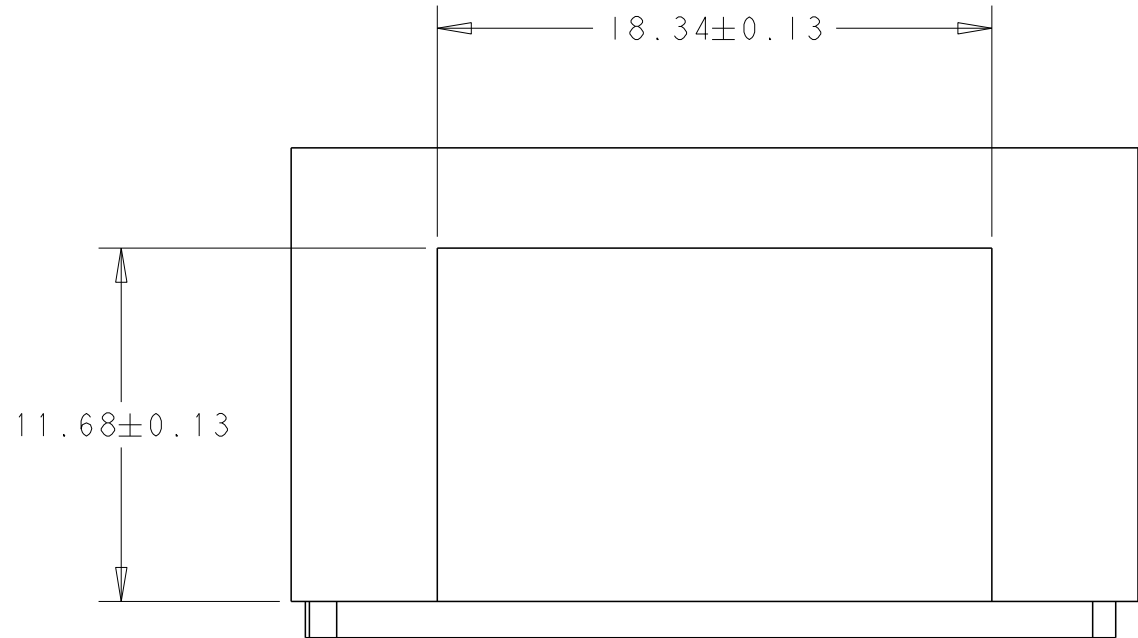
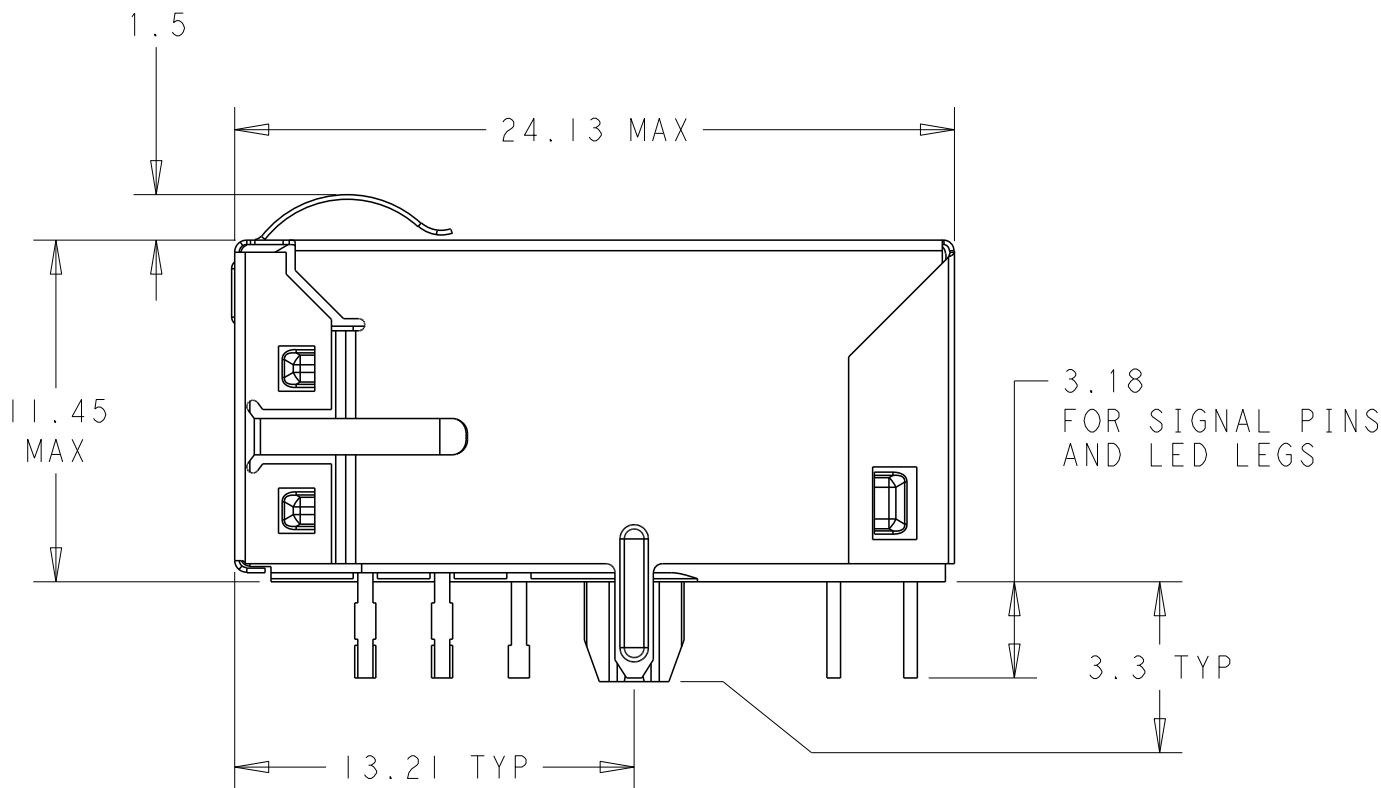
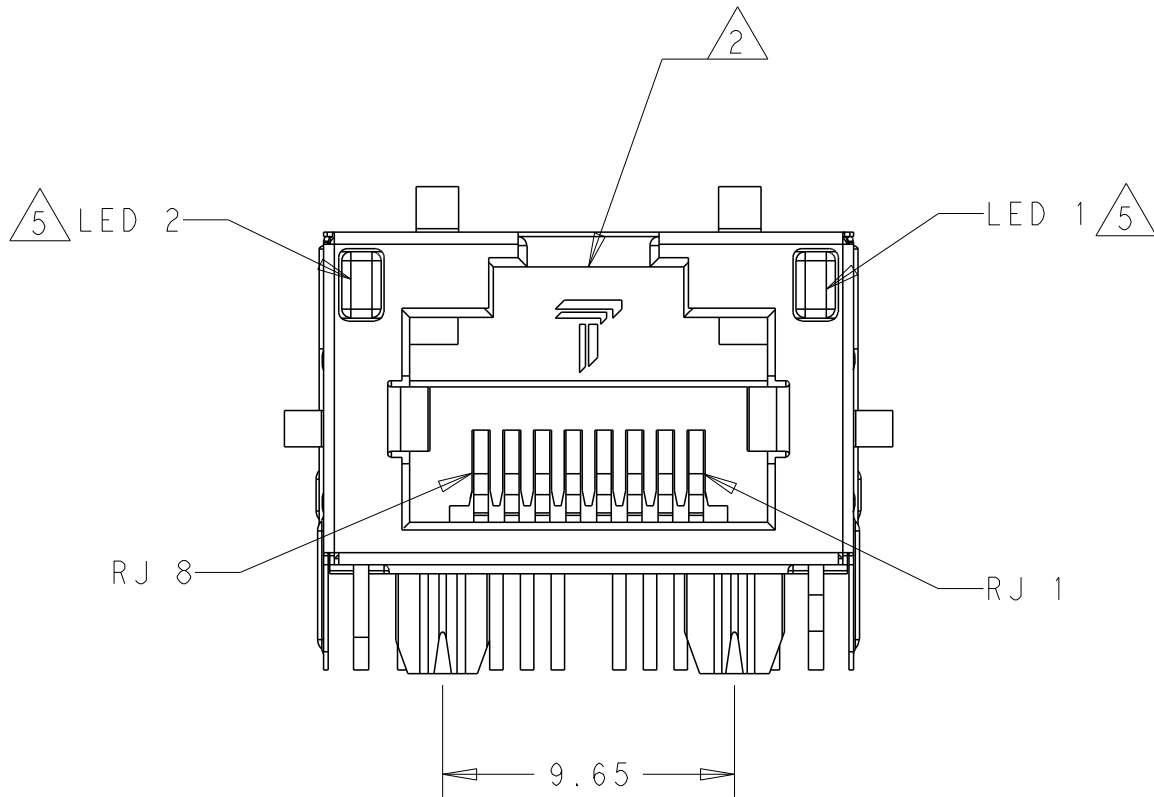
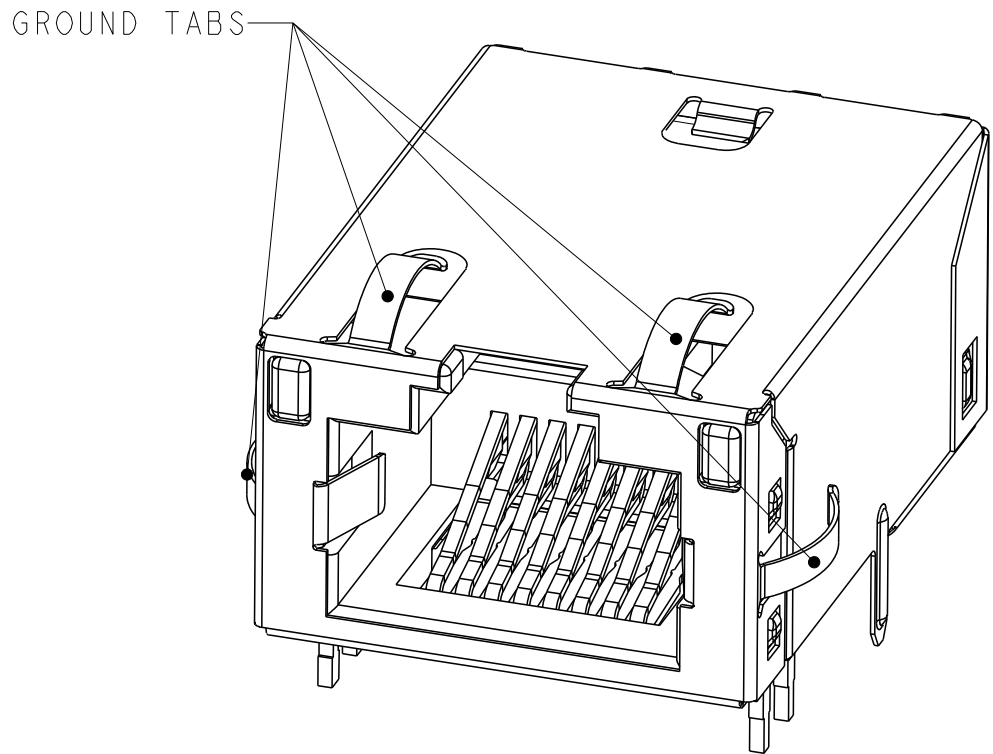
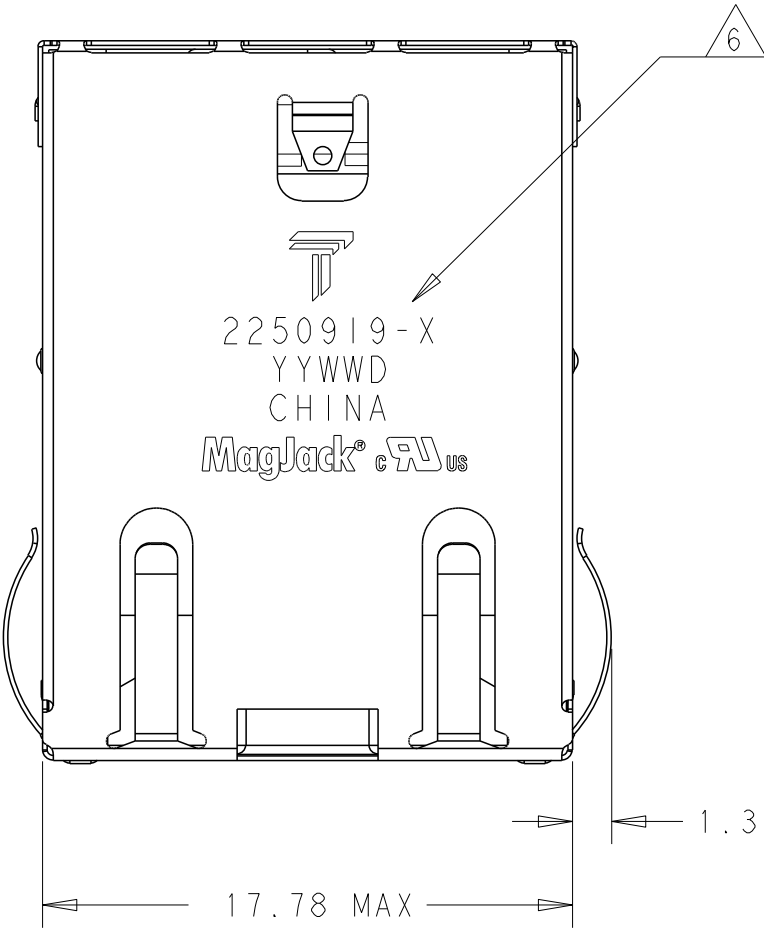
- △ MAGNETICS:
- APPLICATION: 1G/10G BASE-T EXTENDED TEMPERATURE
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 160uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO 85°C, ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTINAL
 - PERFORMANCE @ 25°C: PLEASE REFER TO SEPARATE SHEET
 - ISOLATION VOLTAGE: 2250 VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC

- △ OPERATING TEMPERATURE: FROM -40°C TO 85°C

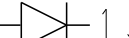
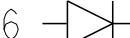
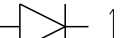
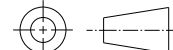
- △ LED IS WITH CONSTANT CURRENT AT APPROX 20mA.
- LED COLOR: DONINANT WAVELENGTH(λD), GREEN = 568±5nm TYP. at IF=20mA
FORWARD VOLTAGE(VF), GREEN 2.2V TYP. at IF=20mA.
DONINANT WAVELENGTH(λD), YELLOW = 588±5nm TYP. at IF=20mA
FORWARD VOLTAGE(VF), YELLOW 2.1V TYP. at IF=20mA.

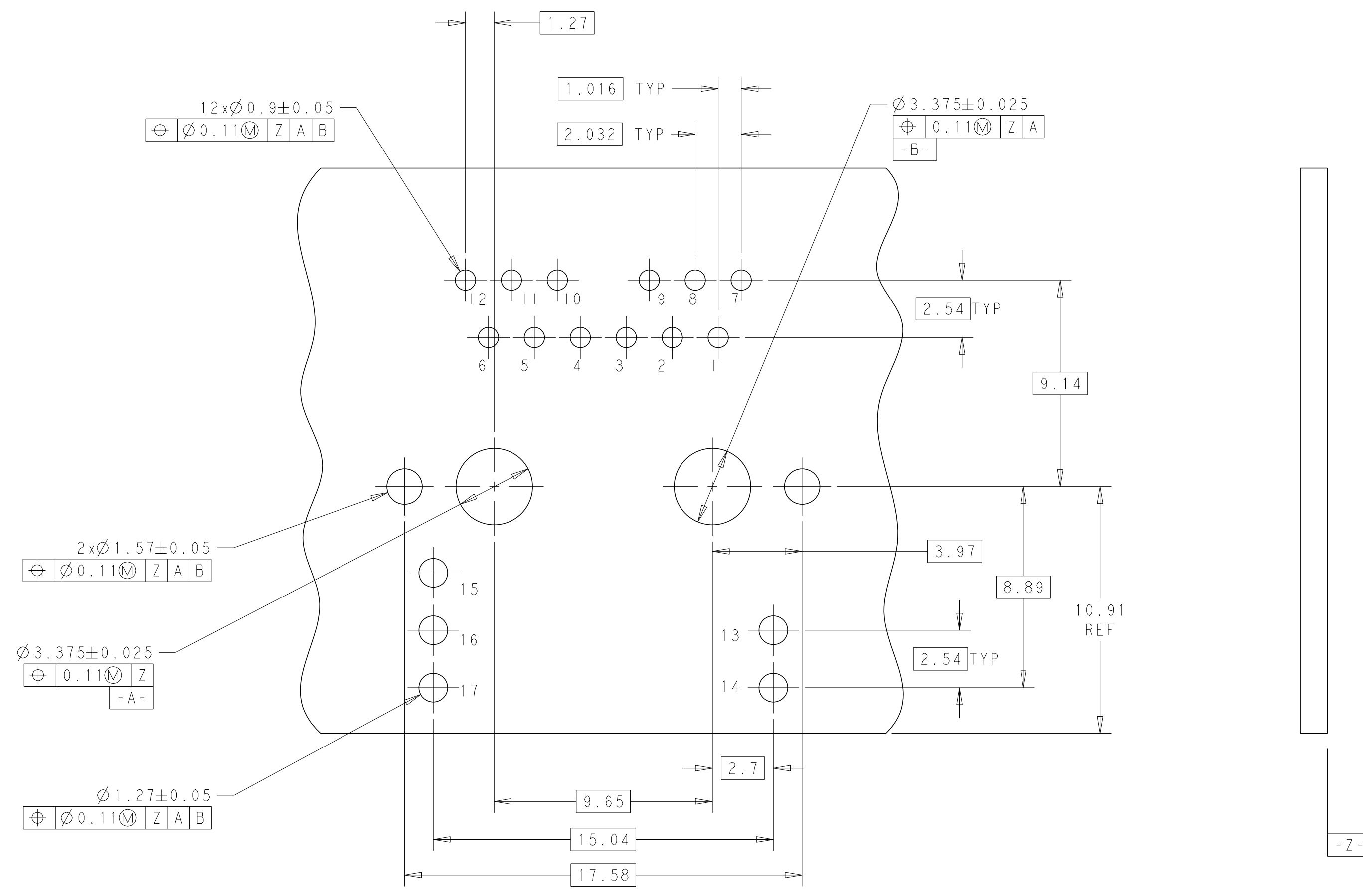
- △ TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

- △ THESE PARTS ARE COMPLIANT TO WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX



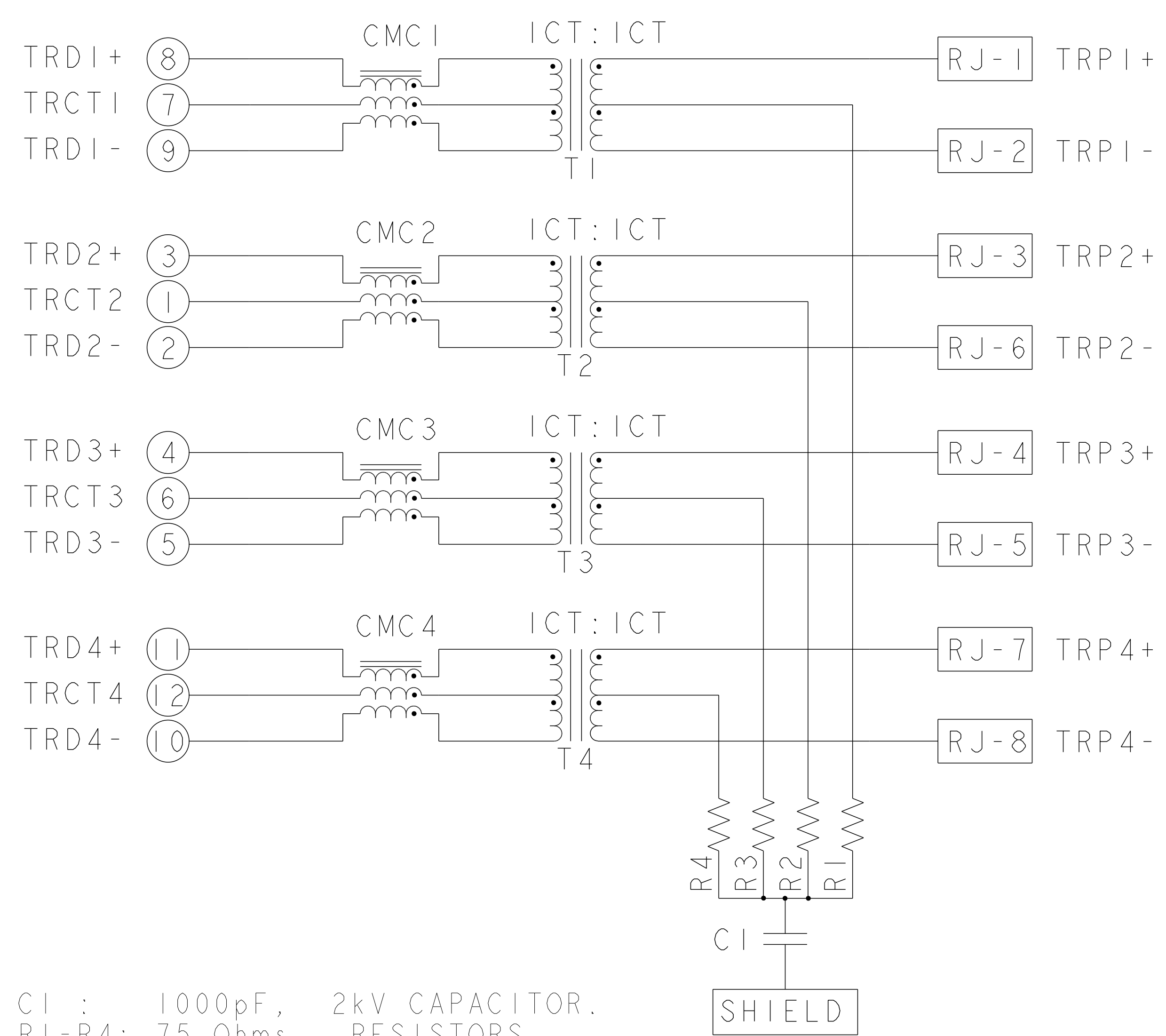
SUGGESTED PANEL CUTOUT

TRAY	WAVE SOLDERING		YELLOW	GREEN	-	GREEN	2250919-1
PACKAGE METHOD	SOLDERING PROCESS		16  15	16  17	13  14	14  13	PART NO.
			LED 2		LED 1		
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M			DWN: JARRY YE / XENIA WANG CHK: TOWER YU / BILL LIU APVD: TONY YUAN		 trp CONNECTOR a bel group		DONGGUAN CHINA
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME		DESC	
mm				MAGJACK		1X1 1TG27ET 10G EXTENDED TEMPERATURE TAB UP LOW PROFILE W/ LED	
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±		SINGLE Non-PoE		SIZE CAGE CODE DRAWING NO	
PRODUCT SPEC 108-104004		APPLICATION SPEC		CUSTOMER DRAWING		RESTRICTED TO	
						SCALE 4:1 SHEET 1 OF 3 REV 1	



SUGGESTED PCB LAYOUT

ITG27ET 10G CIRCUIT [△]

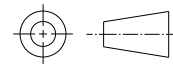


CI : 1000pF, 2kV CAPACITOR.
R1-R4: 75 Ohms, RESISTORS.

C_2250919					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)
16JUL2024	1	INITIAL RELEASE	-	TONY YUAN	-	-	-	-

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

DIMENSIONS:
mm



PRODUCT SPEC
108-104004

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC ±0.25

1 PLC ±0.25

2 PLC ±0.25

3 PLC ±

4 PLC ±

ANGLES

APPLICATION SPEC

OWN
JARRY YE / XENIA WANG
16 JUL 2024

CHK
TOWER YU / BILL LIU
16 JUL 2024

APVD
TONY YUAN
16 JUL 2024

MODEL NAME
MAGJACK

SINGLE Non-PoE

CUSTOMER DRAWING

DESC
TX1 IT627ET 10G EXTENDED TEMPERATURE
TAB UP LOW PROFILE W/ LED

SIZE
A1

CAGE CODE

DRAWING NO
C=2250919

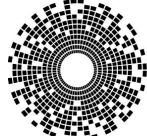
RESTRICTED TO
-

SCALE
4:1

SHEET
3

OF
3

REV
1



trp

CONNECTOR

a bel group

DONGGUAN
CHINA

xxxxx

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