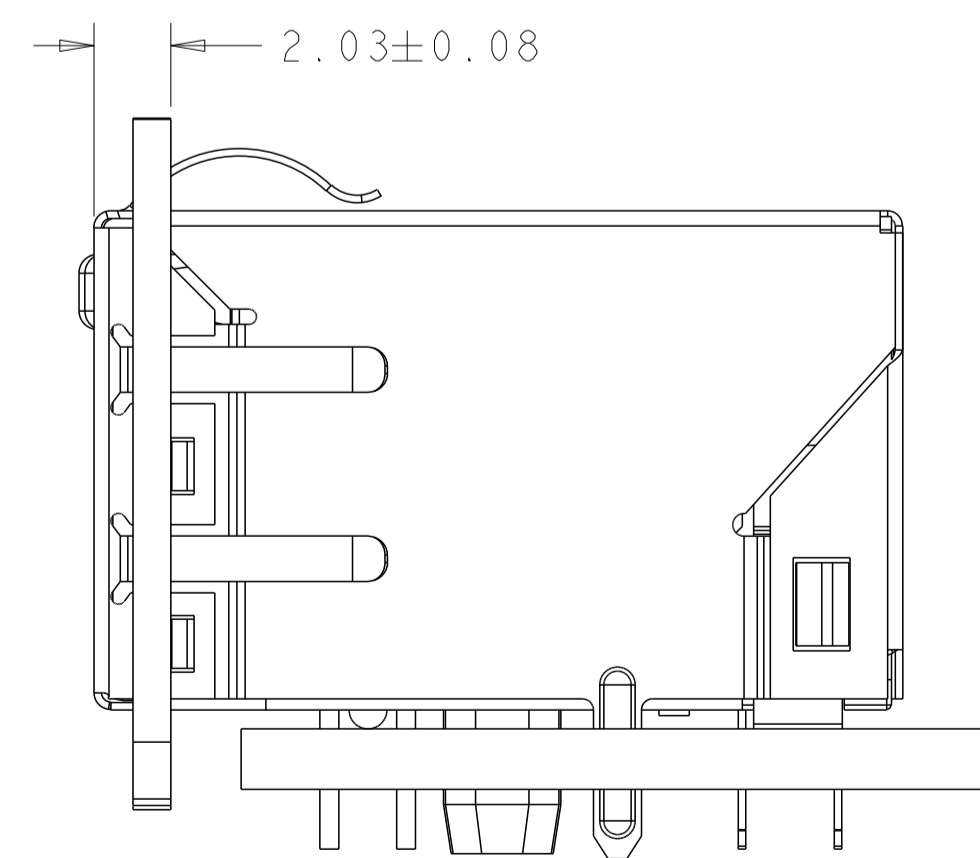
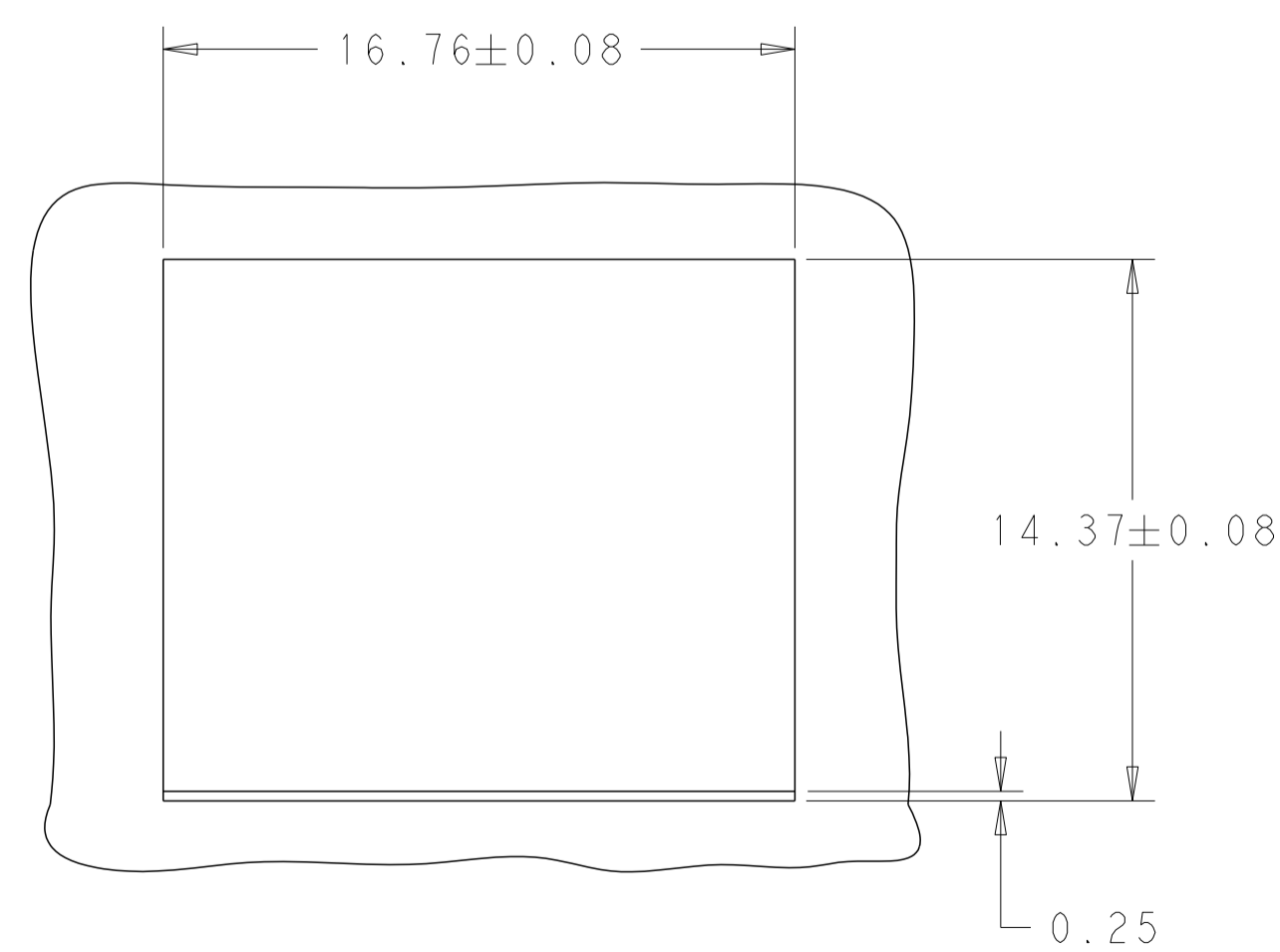
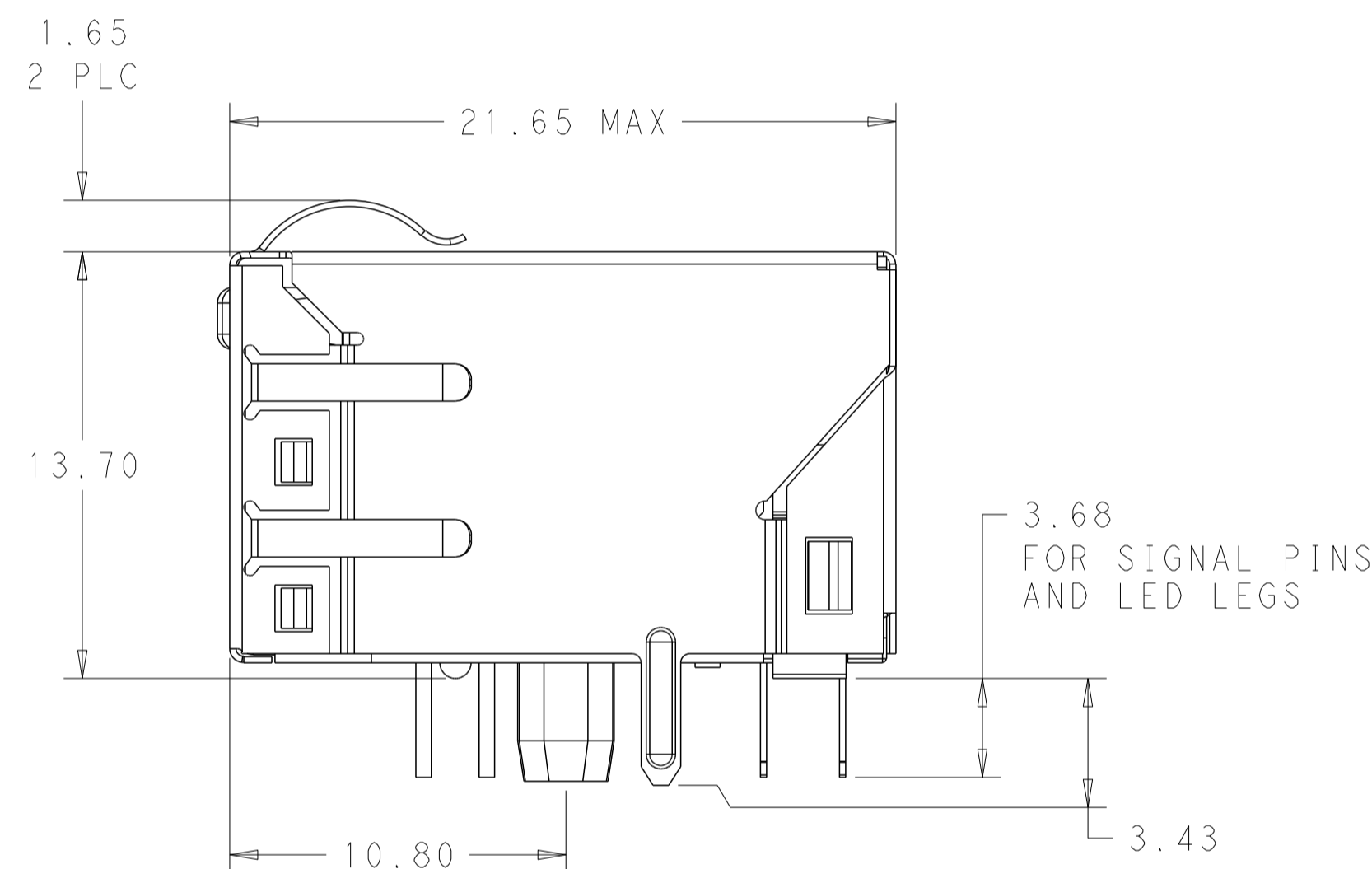
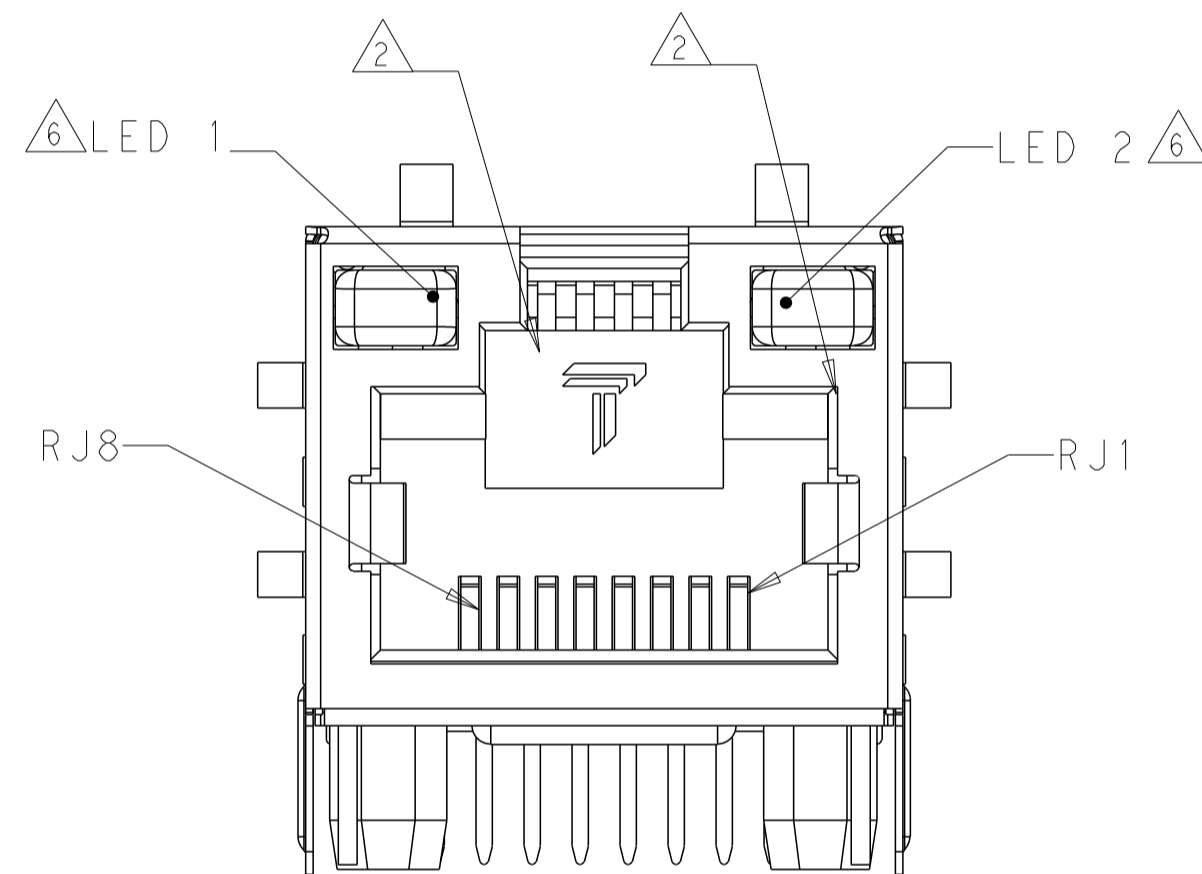
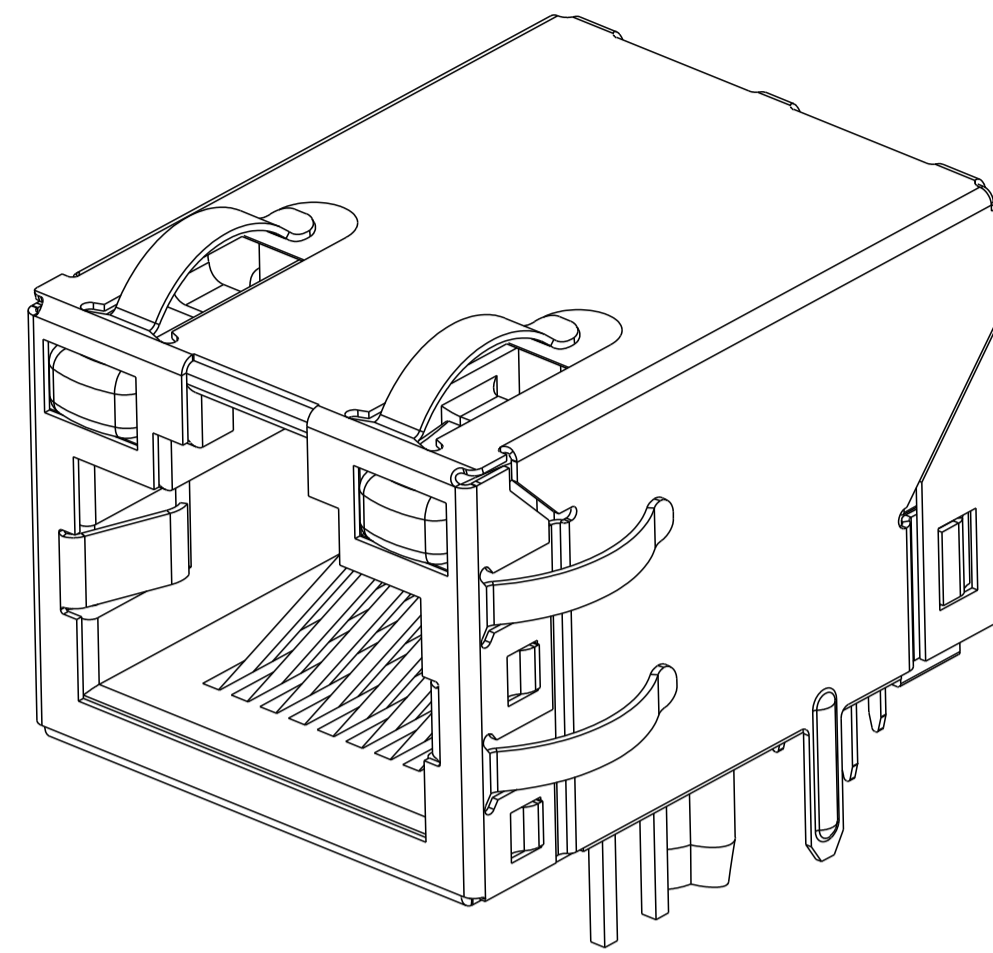
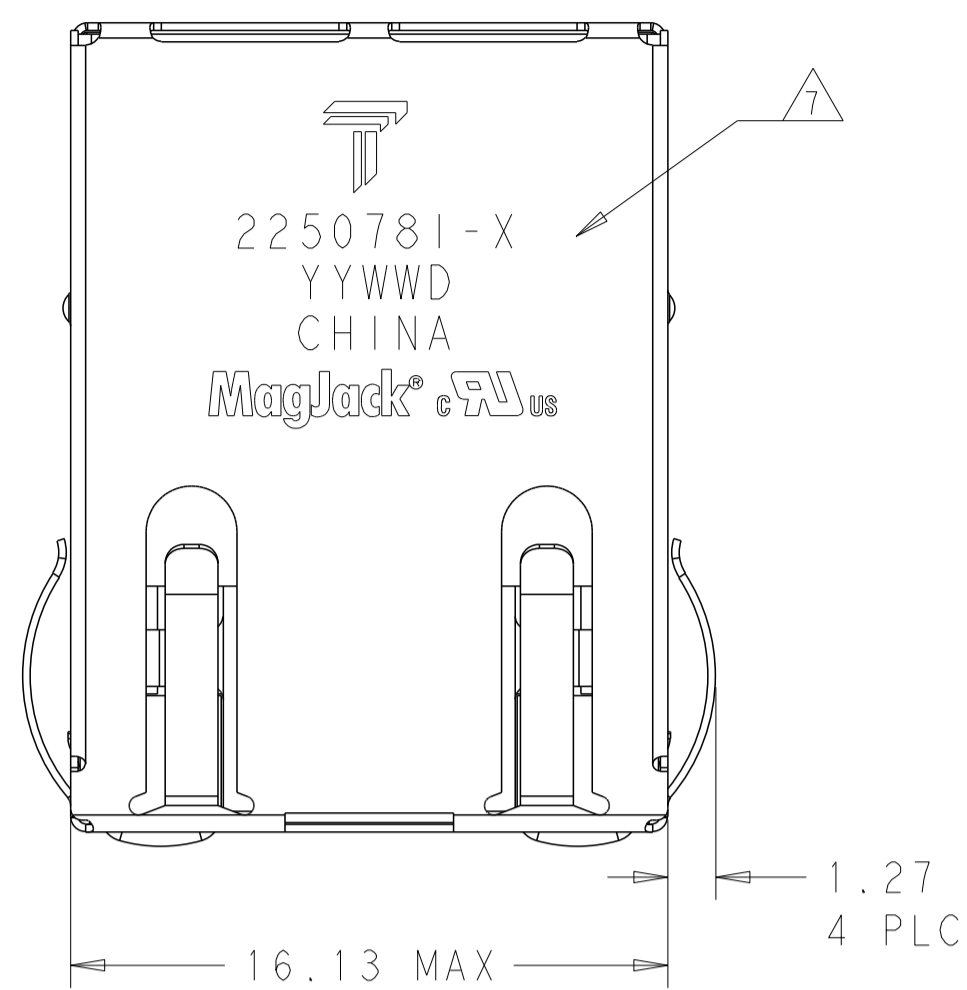


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

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				
#	LT#	DESCRIPTION	DATE	APP'D
1		INITIAL RELEASE	23JUL2021	JY TY



SUGGESTED CUT PANEL AND PCB

1. MATERIALS
- HOUSING: THERMOPLASTIC, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS 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, OR 1.27um MIN NICKEL UNDERPLATE, WITH 0.05um GOLD PLATING OVER 0.76um MIN PALLADIUM NICKEL PLATING AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
 - SOLDER TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE, 3um TIN PLATE
 - 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 AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

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

- △3 MAGNETICS
- APPLICATION: 1G/2.5G BASE-T, EXTENDED TEMPERATURE
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): ALL CHANNELS 180uH MIN @ 100KHz, 0.1 VRMS WITH 8mA DC BIAS.
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25°C (WHERE f IS FREQUENCY IN MHz):
 - (a) INSERTION LOSS (MIN)
 - 1MHz TO 125MHz = -0.004*f - 0.5 dB
 - (b) RETURN LOSS (MAX)
 - 1MHz TO 40MHz = -16 dB
 - 40MHz TO 125MHz = -16+10*LOG10(f/40) dB
 - (c) CROSSTALK ATTENUATION (MAX)
 - 1MHz TO 40MHz = -35dB
 - 40MHz TO 125MHz = -33+20* LOG10(f/50) dB
 - (d) COMMON MODE REJECTION (MAX)
 - 1MHz TO 125MHz = -25dB
 - ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC.

4. OPERATING TEMPERATURE: FROM -40°C TO +85°C.

△5 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.

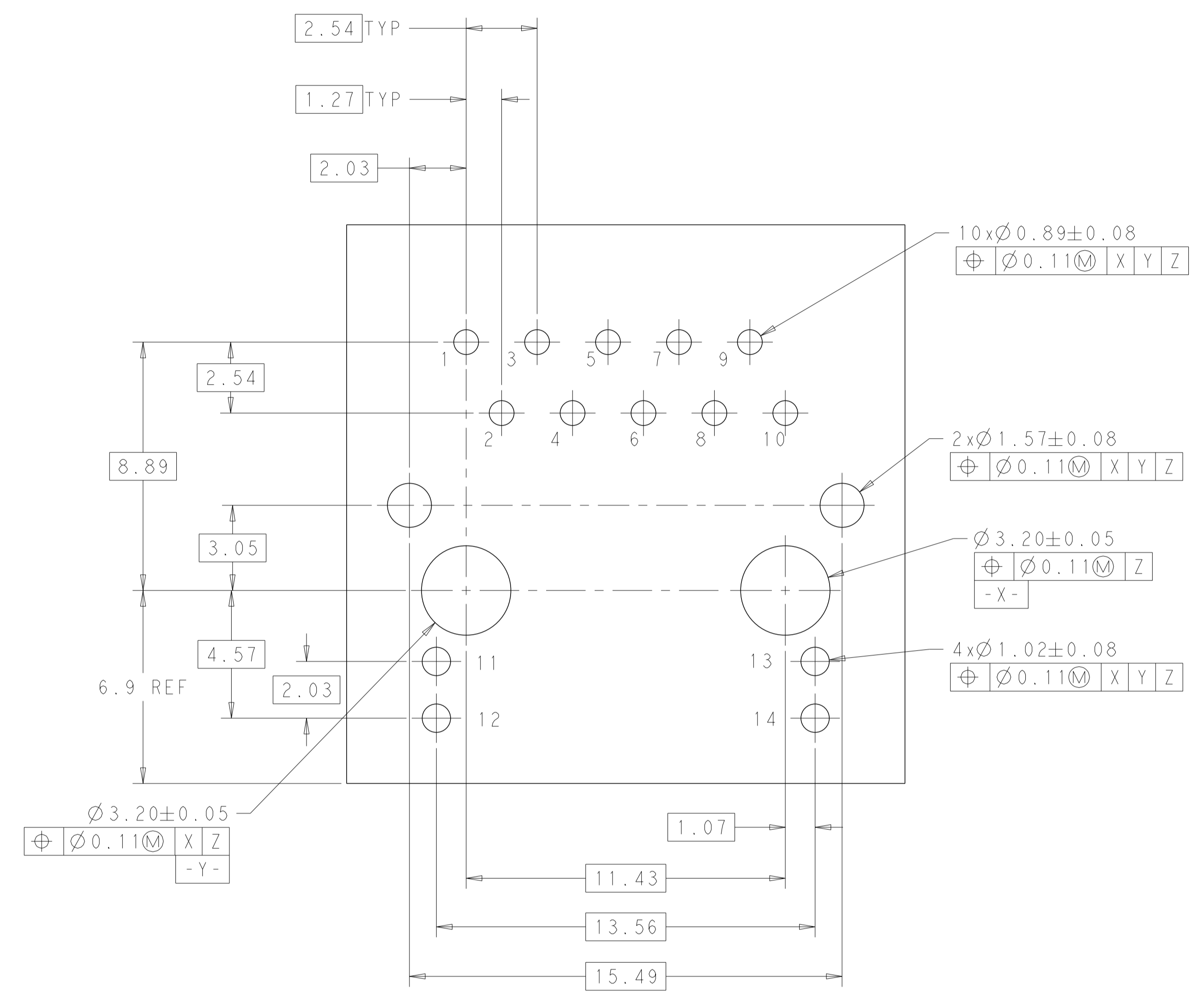
△6 LEADS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
 LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. AT IF = 20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF = 20mA
 DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF = 20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF = 20mA

△7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN. DATE CODE: YYWWD WHERE YY IS YEAR. WW IS WORK WEEK. D IS DAY OF WEEK, WITH SUNDAY=1.

8. PART SHOULD BE 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.

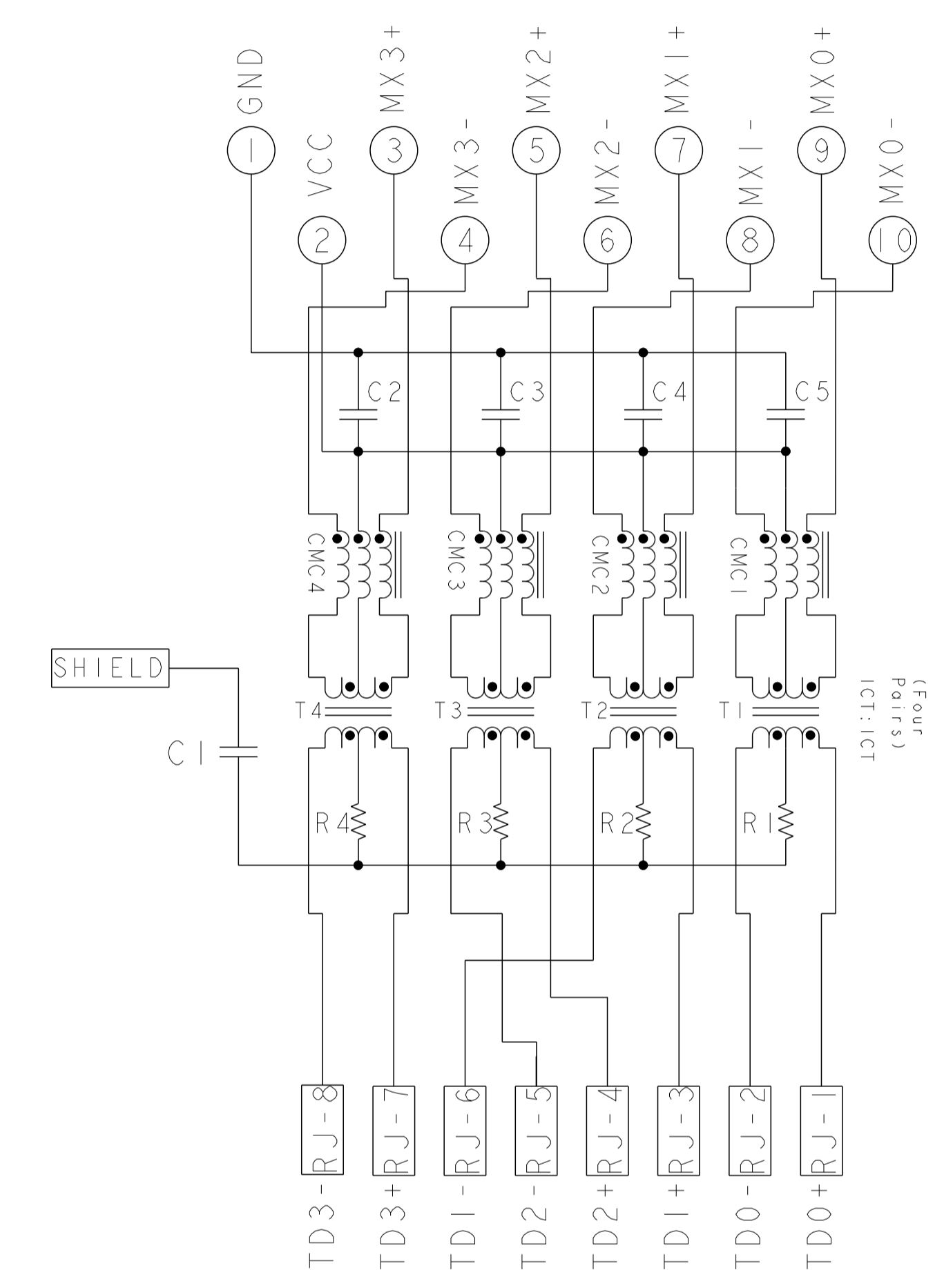
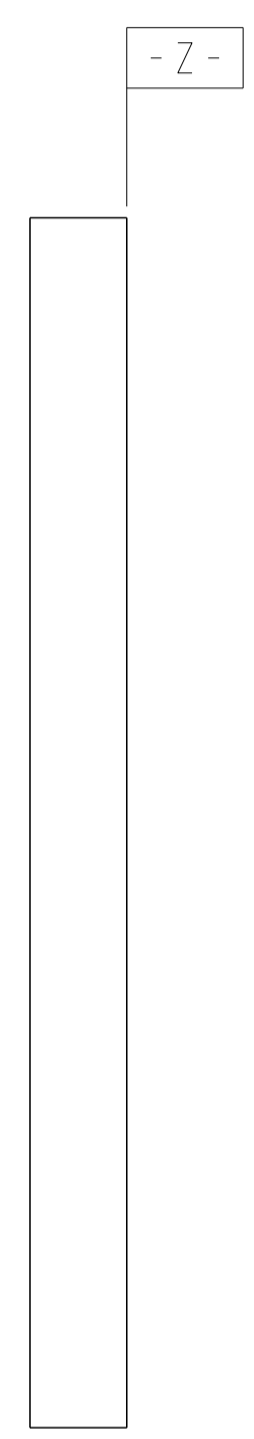
TRAY	GREEN	YELLOW	GREEN	-	2250781-1
PACKAGE METHOD	11 → 12	12 → 11	13 → 14	14 → 13	PART NUMBER
	LED 1		LED 2		

THIS DRAWING IS A CONTROLLED DOCUMENT AND COMPLIANT TO ASME Y14.5M		DWG: JARRY YE / 23JUL2021 CHK: CAREY WANG / 23JUL2021 TOWER YU / KENIA WANG / 23JUL2021 AP'D: TONY YUAN / BILL LIU / 23JUL2021	DONGGUAN CHINA
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	MODEL NAME: MAGJACK DESC: 1X1 7QT140ET 2.5 GIGABIT TAB UP W/ LED	
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±° APPLICATION SPEC	PRODUCT SPEC: 108-104004 APPLICATION SPEC: -	SIZE: A1 CAGE CODE: C=2250781 CUSTOMER DRAWING	RESTRICTED TO: - SCALE: 4:1 SHEET: 1 OF 3 REV: 1



SUGGESTED CUSTOMER BOARD LAYOUT
 (COMPONENT SIDE)


7QTI40ET 2.5 GIGABIT CIRCUIT



C1=1000pF, 2KV, CAPACITOR
 C2 - C5 : 0.1uF, CAPACITORS
 R1 - R4 : 75 Ohms, RESISTORS

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN: JARRY YE / 23 JUL 2021 CHK: TOWER YU / 23 JUL 2021 APVD: TONY YUAN / 23 JUL 2021 BILL: LILU		 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 ±° APPLICATION SPEC		MODEL NAME: MAGJACK DESC: 1X1 7QTI40ET 2.5 GIGABIT TAB UP W/ LED SIZE: A1 CAGE CODE: C=2250781 DRAWING NO: 108-104004 RESTRICTED TO:		
PRODUCT SPEC: 108-104004		CUSTOMER DRAWING		SCALE: 4:1 SHEET: 2 OF 3 REV: 1

C_2250781					STOCK DISPOSITION			
					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)
23JUL2021	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN: JARRY YE / 23JUL2021 CHK: TOWER YU / 23JUL2021 APVD: TONY YUAN / 23JUL2021	 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 ± ANGLES ±°	MODEL NAME: MAGJACK DESC: 1X1 7QT140ET 2.5 GIGABIT TAB UP W/ LED	
PRODUCT SPEC: 108-104004	APPLICATION SPEC: -	SIZE: A1 CAGE CODE: C=2250781 DRAWING NO: -	RESTRICTED TO: -
CUSTOMER DRAWING		SCALE: 4:1	SHEET 3 OF 3 REV 1