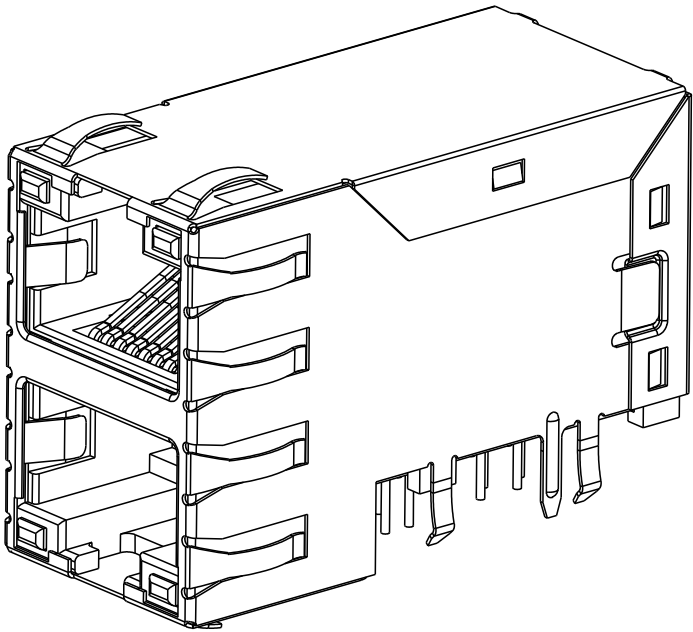


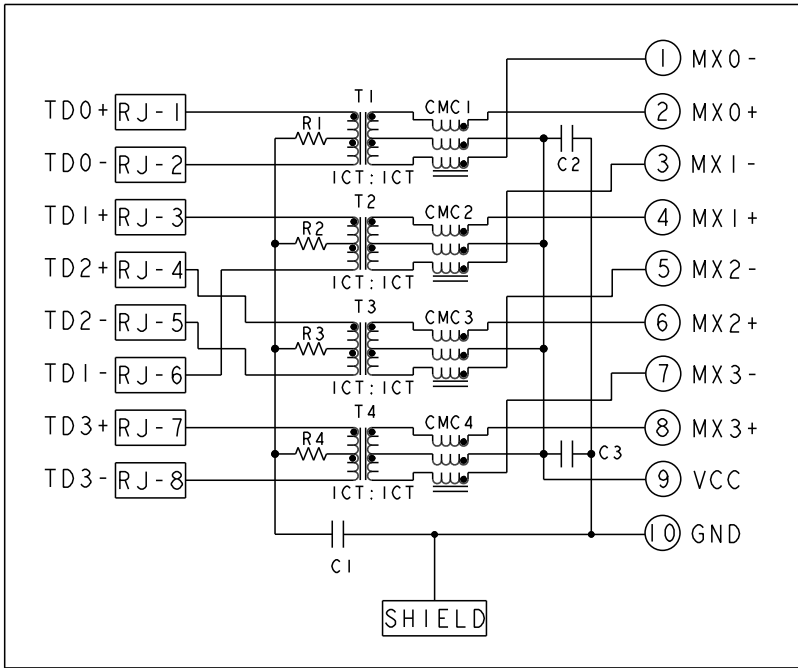
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

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 APVD
1	I	INITIAL RELEASE	29JUL2020	QL TY
2	A	EC-2009010	21SEP2020	QL TY



S8G56ET GIGABIT CIRCUIT
TOP AND BOTTOM PORTS



C1 = 1000pF, 2kV CAPACITOR
C2 - C3 = 10nF, 50V CAPACITORS
R1 - R4 = 75 Ohms, 1/16W, RESISTORS

- 1 MATERIALS:
- HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0.
 - SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS.
 - CONTACTS: PHOSPHOR BRONZE, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE, SELECTIVE 1.27um MIN GOLD AT MATING INTERFACE AND 4.00um MIN MATTE TIN ON SOLDER TAILS.

- 2 MAGNETICS
- APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40 °C TO +85 °C, ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25 °C:
 - INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
 - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 - 12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
 - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 - 33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
 - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
 - ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.

- 3 PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED IN THE APPROXIMATE AREA SHOWN. DATE CODE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1

- 4 TRP LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN THE APPROXIMATE AREA SHOWN.

- 5 RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68 SUBPART F.

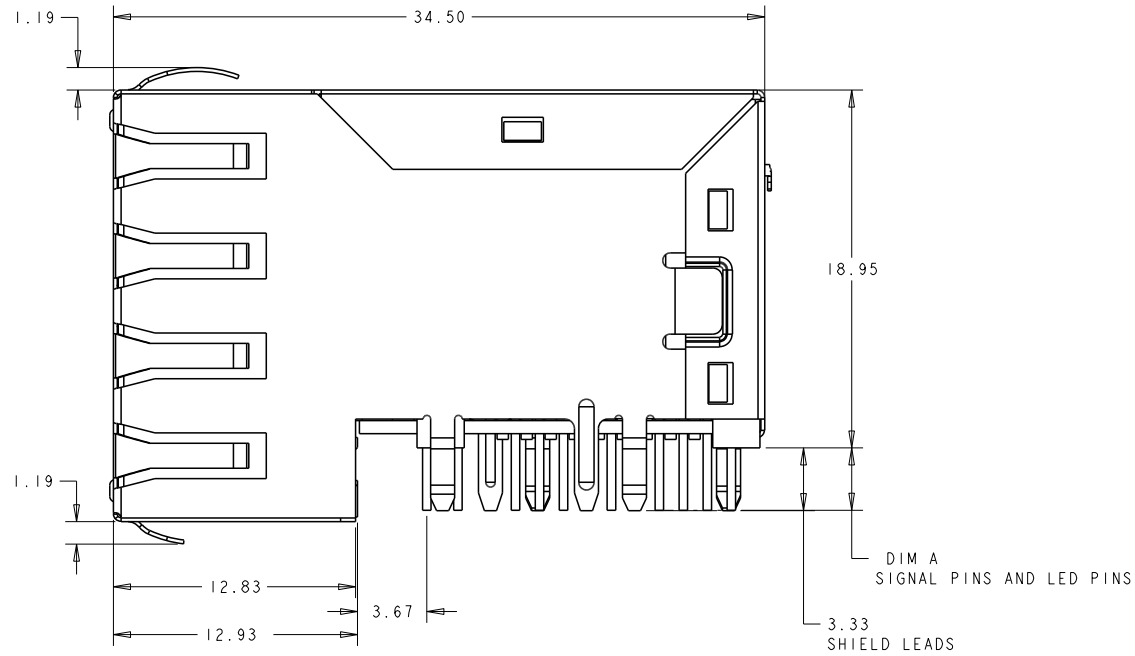
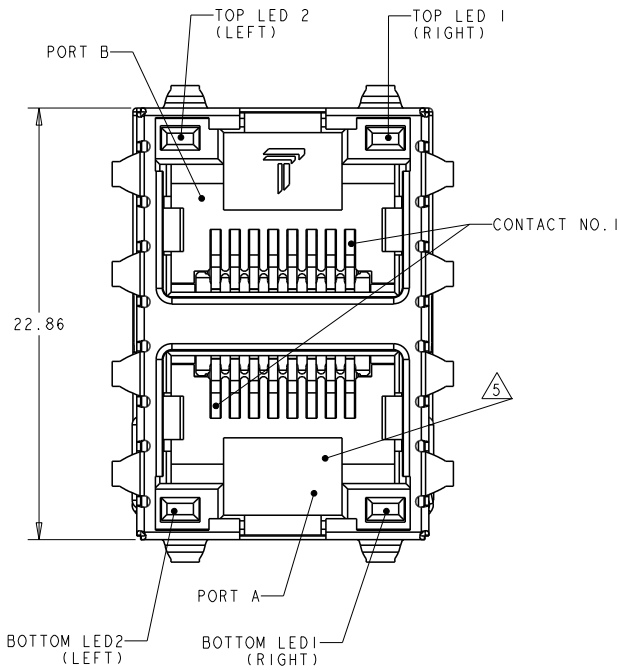
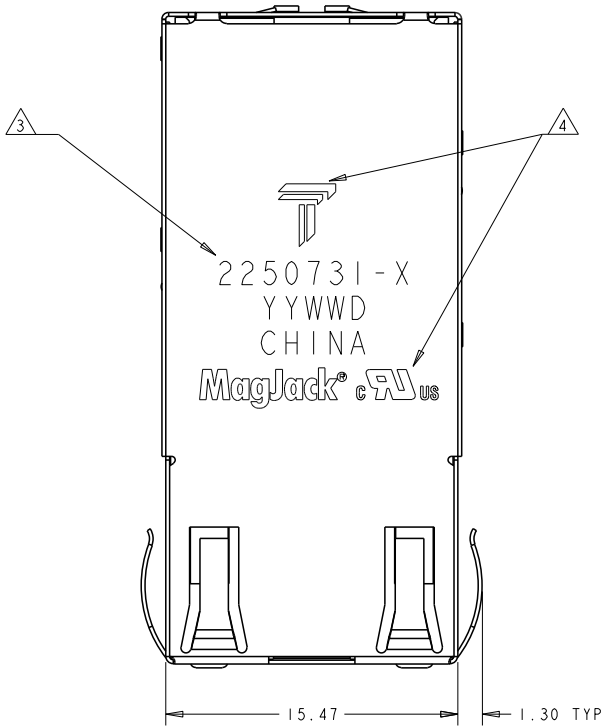
- 6 LEDs ARE DRIVEN WITH CONSTANT CURRENT AT APPROX. 20mA.
- DOMINANT WAVELENGTH (λD)
- GREEN, 568nm TYP AT IF=20mA
 - YELLOW, 588nm TYP AT IF=20mA
- FORWARD VOLTAGE(VF)
- GREEN, 2.2V TYP AT IF=20mA
 - YELLOW, 2.1V TYP AT IF=20mA

- 7 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

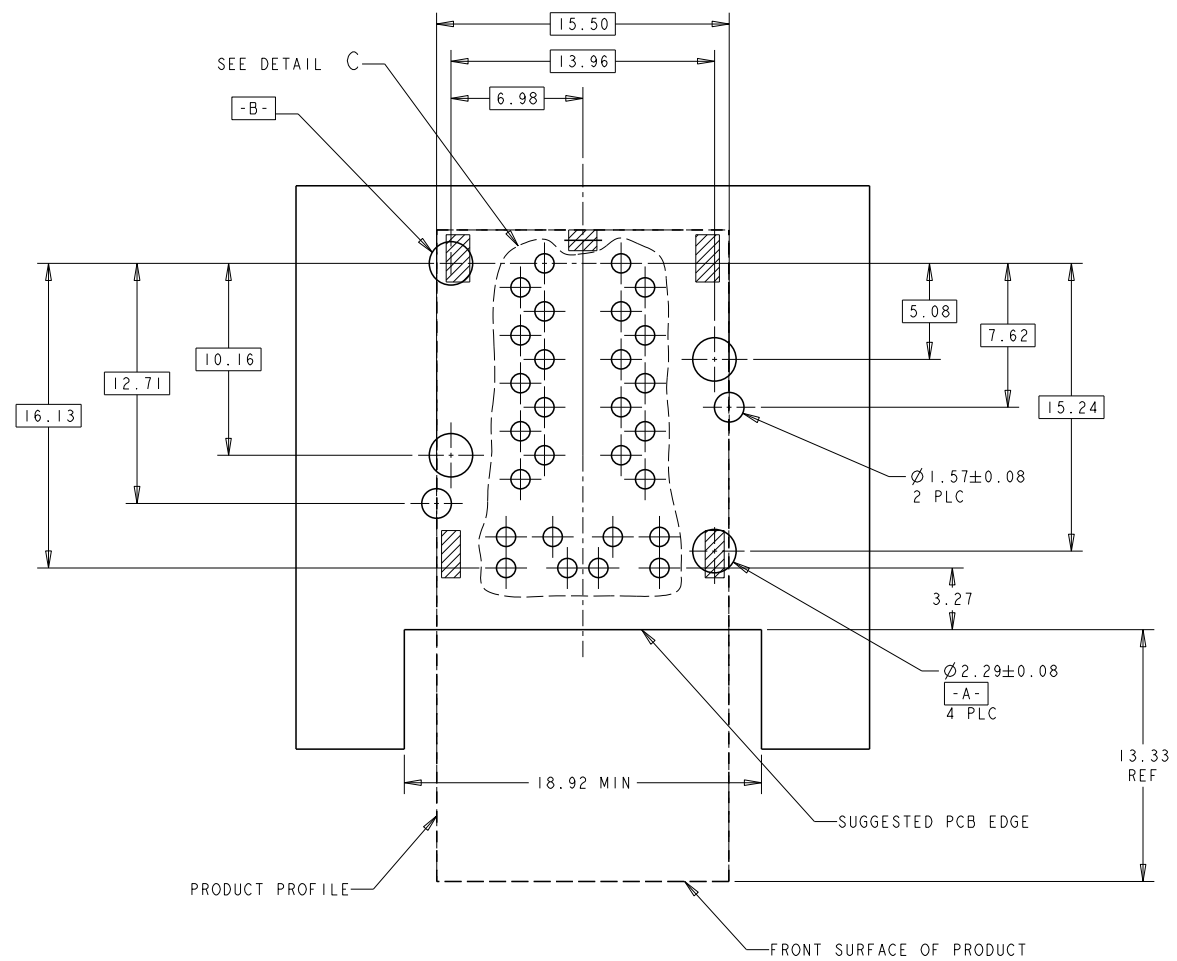
- 8 OPERATING TEMPERATURE: FROM -40 °C TO +85 °C

- 9 THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

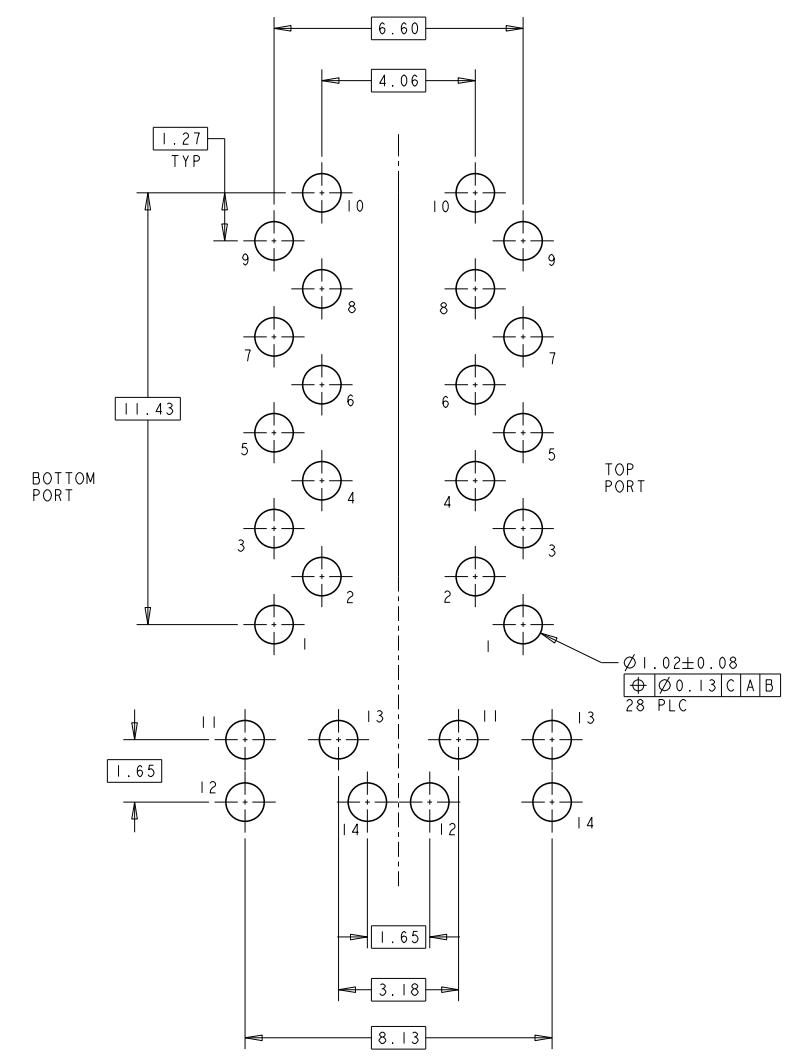
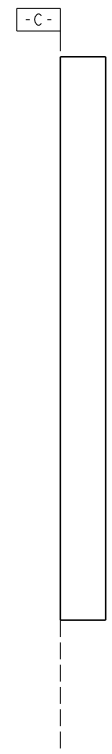
3.30	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	2250731-1
DIM A	BOTTOM LED 2(LEFT)	BOTTOM LED 1(RIGHT)	TOP LED 2(LEFT)	TOP LED 1(RIGHT)	PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M			OWN QUENTIN LIU/TEERY LIN 29JUL2020	 trp CONNECTOR DONGGUAN CHINA	
DIMENSIONS: mm			CHK TOWER YU 29JUL2020		
TOLERANCES UNLESS OTHERWISE SPECIFIED: mm			APVD TONY YUAN 29JUL2020	MODEL NAME MAGJACK	
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25			DESC 2X1 S8G56ET GIGABIT CIRCUIT, OFFSET, WITH LED		SIZE A1
PRODUCT SPEC 108-104004			CAGE CODE 2250731		RESTRICTED TO -
APPLICATION SPEC -			CUSTOMER DRAWING		SCALE NTS
			SHEET 1 OF 4		REV A



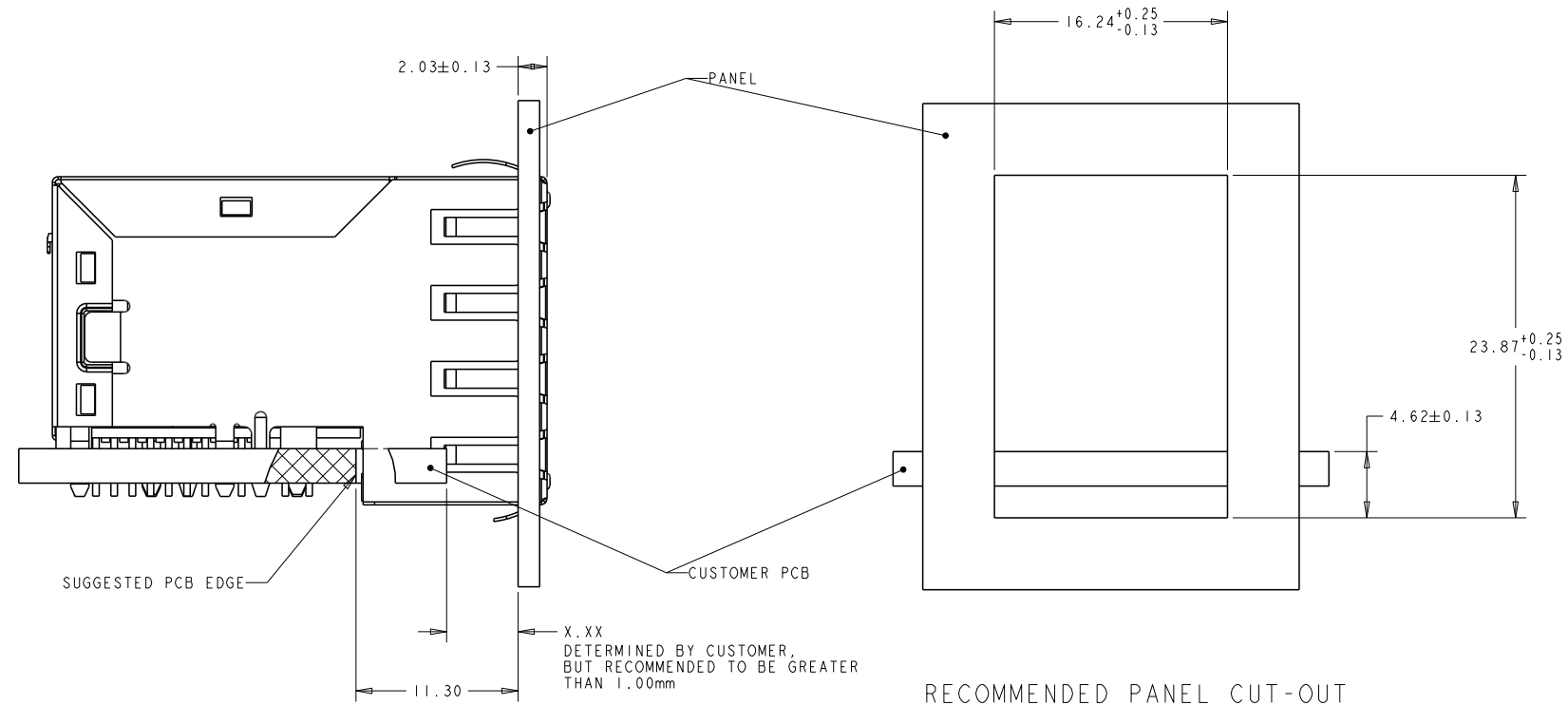
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN 29 JUL 2020 CHK QUENTIN LIU/TERRY LIN 29 JUL 2020 APPRO TOWER YU 29 JUL 2020 APPRO TONY YUAN	 trp CONNECTOR a bel group DONGGUAN CHINA	DESC 2X1 S8G56ET GIGABIT CIRCUIT, OFFSET, WITH LED	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE 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 NON-PoE		SIZE A1	RESTRICTED TO -
PRODUCT SPEC 108-104004	APPLICATION SPEC -	CUSTOMER DRAWING	SCALE NTS	SHEET 2	REV A



RECOMMENDED PC BOARD
LAYOUT VIEW FROM COMPONENT SIDE

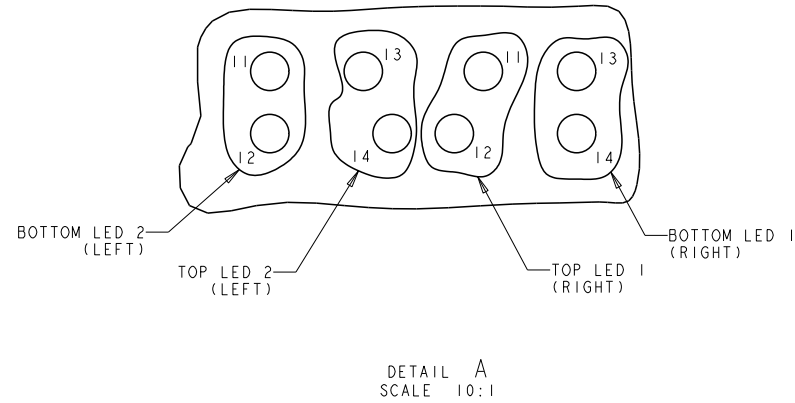
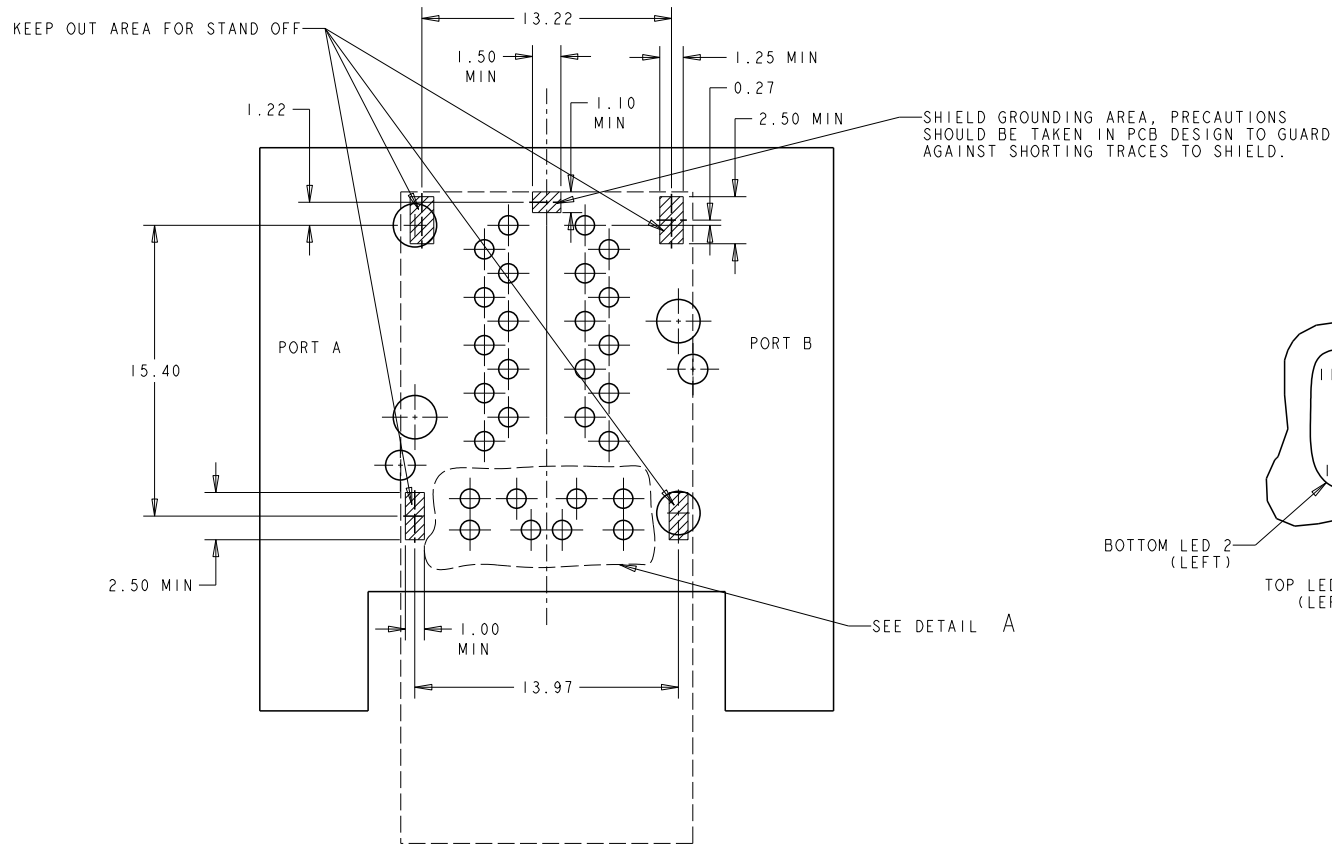


DETAIL C
SCALE 10:1



RECOMMENDED PANEL CUT-OUT

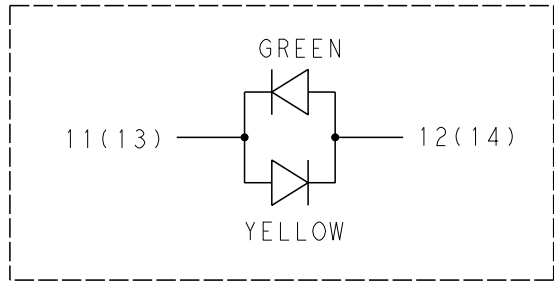
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN: 29 JUL 2020 CHK: QUENTIN LIU/TERRY LIN 29 JUL 2020 APVD: TOWER YU TONY YUAN 29 JUL 2020		DONGGUAN CHINA	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DESC: 2X1 S8G56ET GIGABIT CIRCUIT, OFFSET, WITH LED	
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±°		MODEL NAME: MAGJACK	
PRODUCT SPEC: 108-104004		APPLICATION SPEC: -		SIZE: A1	
		CUSTOMER DRAWING		SCALE: NTS SHEET 3 OF 4 REV: A	



KEEP OUT AREA & LED HOLE DESIGNATIONS & PORT ASSIGNMENT
VIEW FROM COMPONENT SIDE

TOLERANCE: ± 0.08 mm

BI COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		OWN QUENTIN LIU/TERRY LIN 29 JUL 2020	 trp CONNECTOR DONGGUAN CHINA	
DIMENSIONS: mm		CHK TOWER YU 29 JUL 2020		
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 0.25 1 PLC ± 0.25 2 PLC ± 0.25 3 PLC $\pm$ 4 PLC $\pm$ ANGLES $\pm$		APVD TONY YUAN 29 JUL 2020	MODEL NAME MAGJACK	
PRODUCT SPEC 108-104004		APPLICATION SPEC -	DESC 2X1 S8G56ET GIGABIT CIRCUIT, OFFSET, WITH LED	
			SIZE A1	CAGE CODE 2250731
			DRAWING NO CUSTOMER DRAWING	RESTRICTED TO -
			SCALE NTS	SHEET 4 OF 4
			REV A	