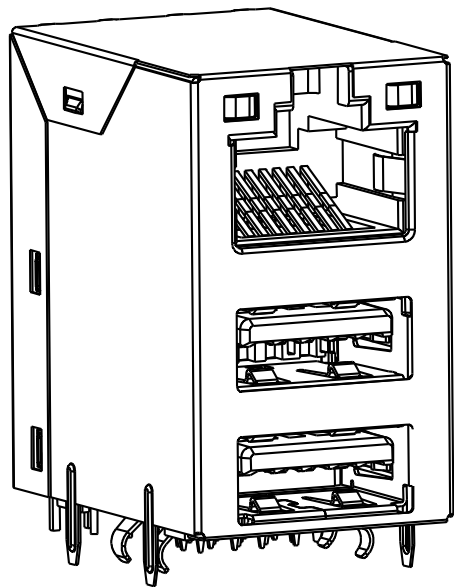
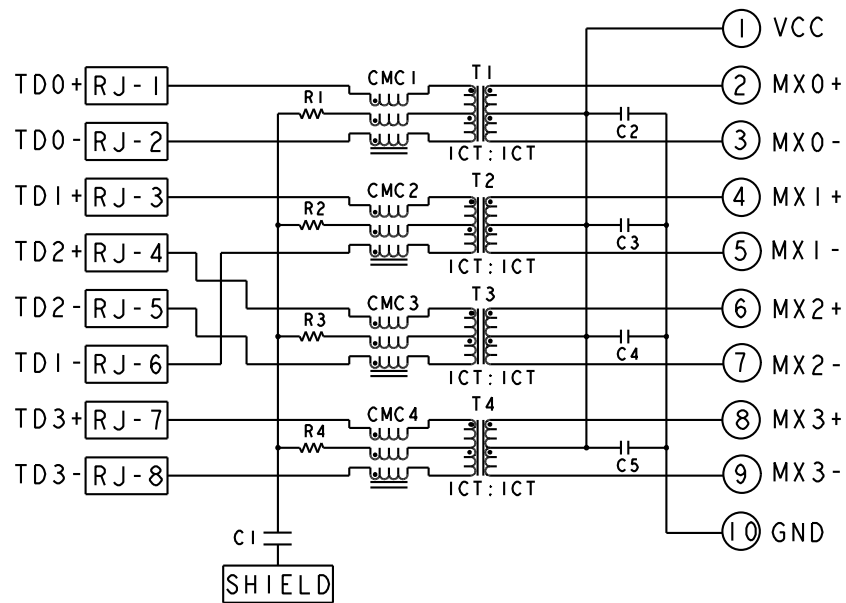




URG153 GIGABIT CIRCUIT



C1: 1000pF, 2kV, CAPACITOR;
C2-C5: 100nF, 50V, CAPACITORS;
R1-R4: 75ohms, 1/16W, RESISTORS

1. MATERIALS
- USB MATERIALS:
- HOUSING: THERMOPLASTIC, BLUE, FLAMMABILITY RATING UL 94V-0
- USB 2.0 CONTACT: PHOSPHOR BRONZE, WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND SELECTIVE 0.762um MIN GOLD PLATING AT MATING INTERFACE
- USB 3.0 CONTACT: COPPER BASE ALLOY, WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND SELECTIVE 0.762um MIN GOLD PLATING AT MATING INTERFACE
- RJ45 MATERIALS:
- HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0
- SHIELD: STAINLESS STEEL, PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54um MIN SOLDER ON SOLDER TAILS
- CONTACT: PHOSPHOR BRONZE, WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE
- LED MATERIALS:
- DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME LEADS, PREPLATED WITH 2.03um MIN SILVER OVER 1.02 MIN NICKEL OVER 1.02um MIN COPPER UNDERPLATE, POST PLATED WITH 2.54um MIN MATTE TIN AND/OR 2.54um MIN SAC SOLDER DIP OR PURE TIN SOLDER DIP.

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, 0.1 VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTIONAL
- PERFORMANCE @ 25°C:
- INSERTION LOSS (IL): 1.1 dB MAX FROM 0.5MHz TO 100MHz
- RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
- 12-20LOG(f/80)dB MIN FROM 40.1 MHz TO 100MHz
- CROSSTALK ATTENUATION: 35 dB MIN FROM 0.5 MHz TO 40 MHz
- 33-20LOG(f/50) dB MIN FROM 40.1 MHz TO 100 MHz
- 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.

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.

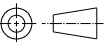
7. TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AGENCY APPROVAL MARKING IN APPROPRIATE LOCATION SHOWN.
DATE CODE: YYWW WHERE "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY= 1

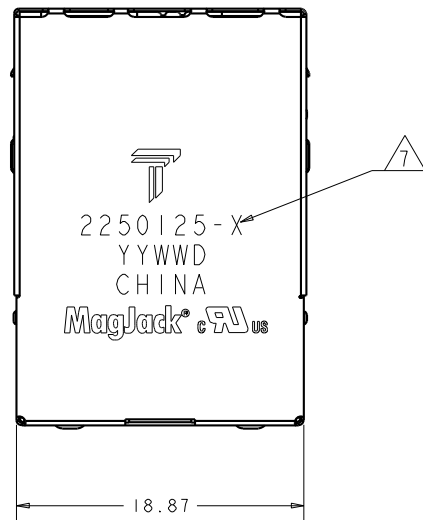
8. LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
LED COLOR: DOMINANT WAVELENGTH (λD)
GREEN 568 nm TYP at IF=20mA; YELLOW, 588nm TYP AT IF=20mA
FORWARD VOLTAGE (VF):
GREEN 2.2V TYP at IF=20mA; YELLOW, 2.1V TYP AT IF=20mA

9. THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

10. LOW HALOGEN SPEC(EXCEPT LIGHT PIPE):
CHLORINE (Cl) 900PPM MAX
BROMINE (Br) 900PPM MAX
TOTAL BROMINE AND CHLORINE (Br+Cl) 1500PPM MAX
LIGHT PIPE COMPLY WITH LOW HALOGEN SPECIFICATION "DIN VDE 0472"
CHLORINE (Cl) 1000PPM MAX
BROMINE (Br) 1000PPM MAX
TOTAL BROMINE AND CHLORINE (Br+Cl) 2000PPM MAX

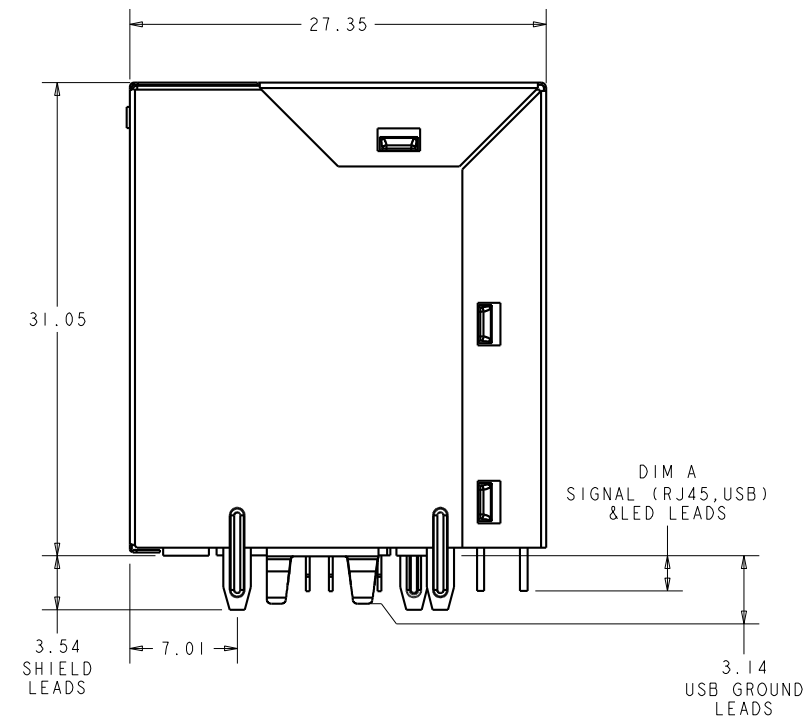
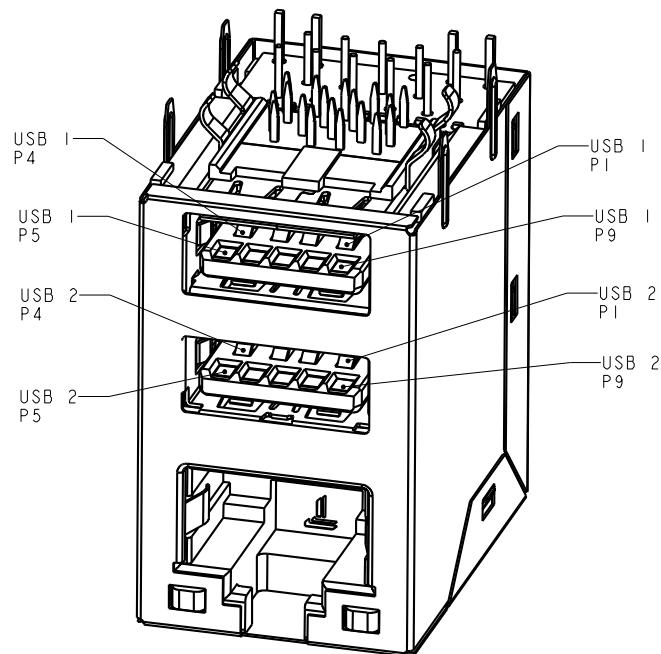
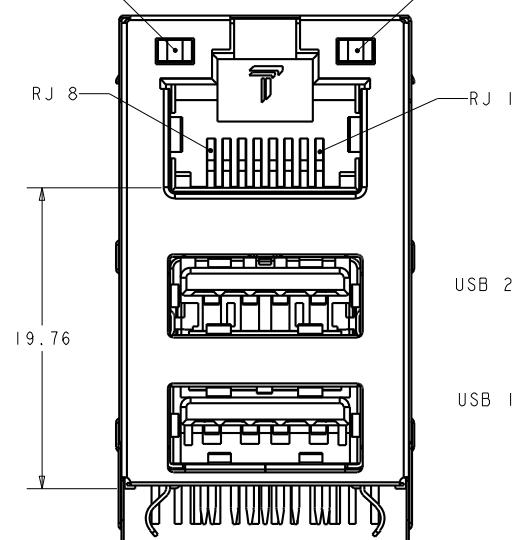
2.30	WITHOUT	GREEN	GREEN/YELLOW	2250125-3
3.25	WITH	GREEN	GREEN	1-2250125-2
3.25	WITHOUT	GREEN	GREEN	2250125-2
2.30	WITHOUT	GREEN	GREEN	2250125-1
DIM A	TOP&SIDE EMI FINGERS	LED2	LED1	PART NUMBER

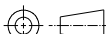
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JAMISON CHEN 09NOV2013	 trp CONNECTOR a bel group		DONGGUAN CHINA			
DIMENSIONS: mm		CHK QUENTIN LIU 09NOV2013						
		APVD TONY YUAN 09NOV2013						
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC		MODEL NAME MAGJACK OVER USB NON-PoE						
PRODUCT SPEC -		DESC MAGJACK OVER DUAL USB3.0 URG153 CIRCUIT, GIGABIT, W/ LEDS		SIZE A2	CAGE CODE C-2250125	DRAWING NO -	RESTRICTED TO	
		CUSTOMER DRAWING			SCALE 3.	SHEET 1	OF 5	REV 8



8 LED 2
SEE TABLE FOR COLOR

LED 1 8
SEE TABLE FOR COLOR



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		CHK QUENTIN LIU 09NOV2013				
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD TONY YUAN 09NOV2013	MODEL NAME		DESC
		0 PLC ±-	MAGJACK		MAGJACK OVER DUAL USB3.0	
		1 PLC ±-			URGI53 CIRCUIT, GIGABIT, W/ LEDS	
		2 PLC ±0.25	OVER USB NON-PoE		SIZE	CAGE CODE
		3 PLC ±-			A2	DRAWING NO
		4 PLC ±-	C=2250125	RESTRICTED TO		
PRODUCT SPEC		ANGLES ±-				
APPLICATION SPEC						
-		-	CUSTOMER DRAWING		SCALE 3:1	SHEET 2 OF 5
						REV 8

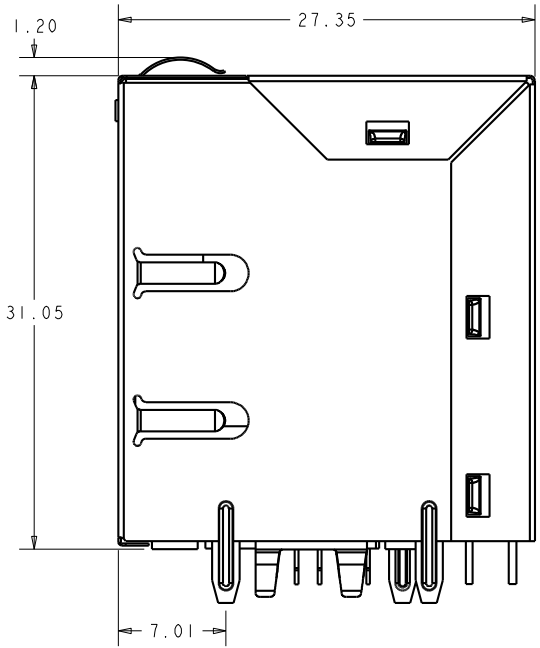
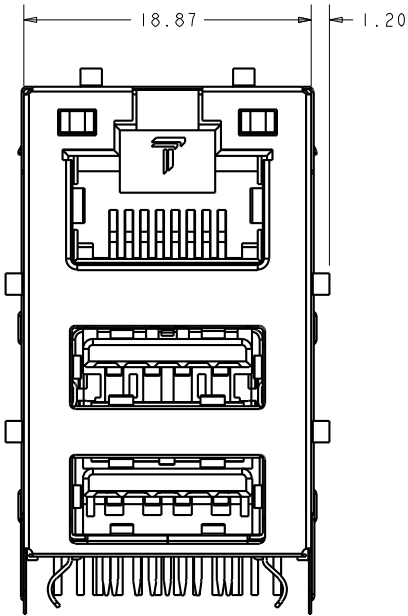
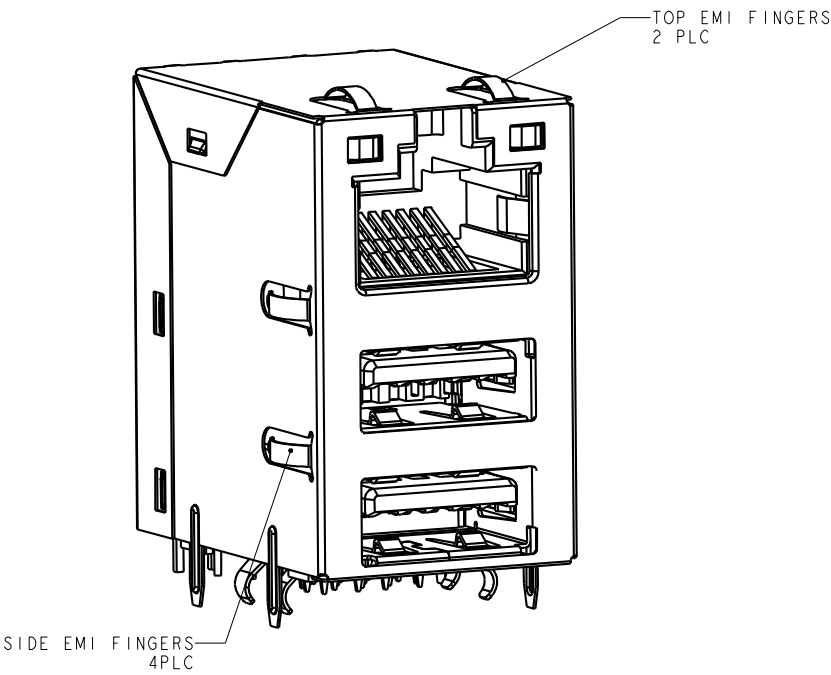
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3

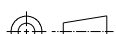
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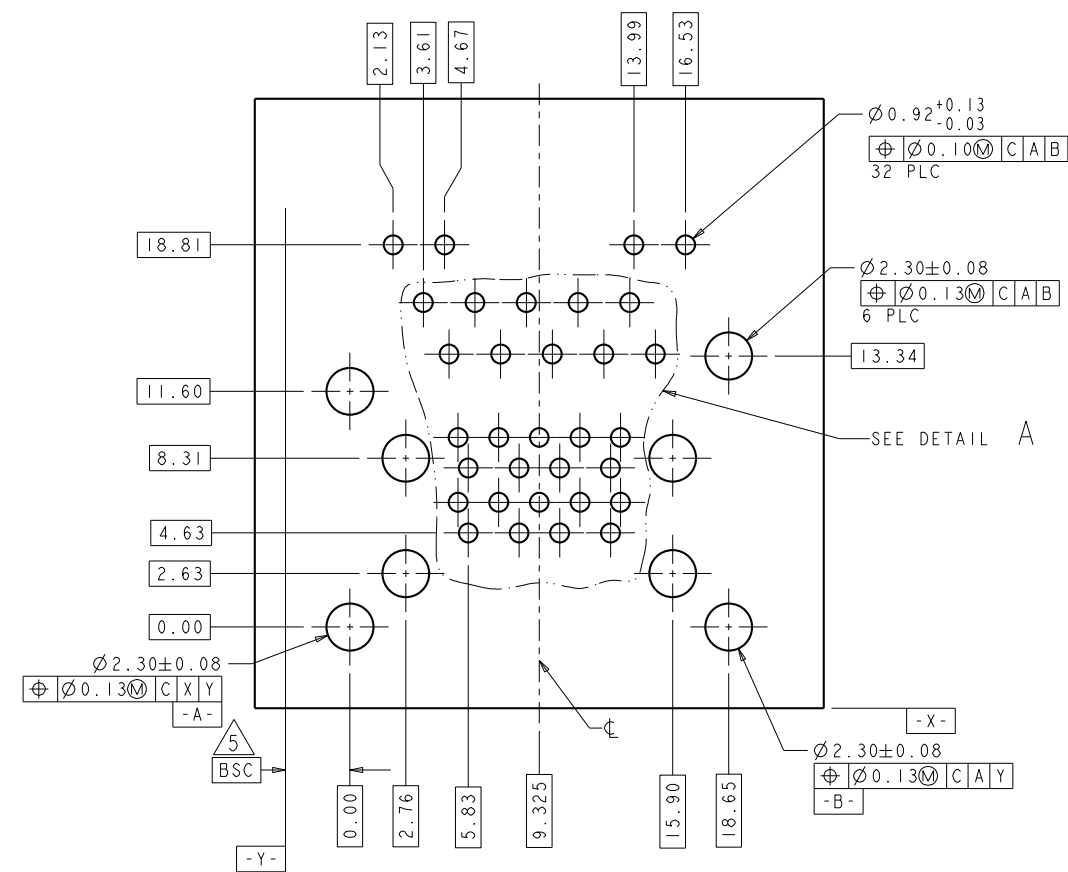
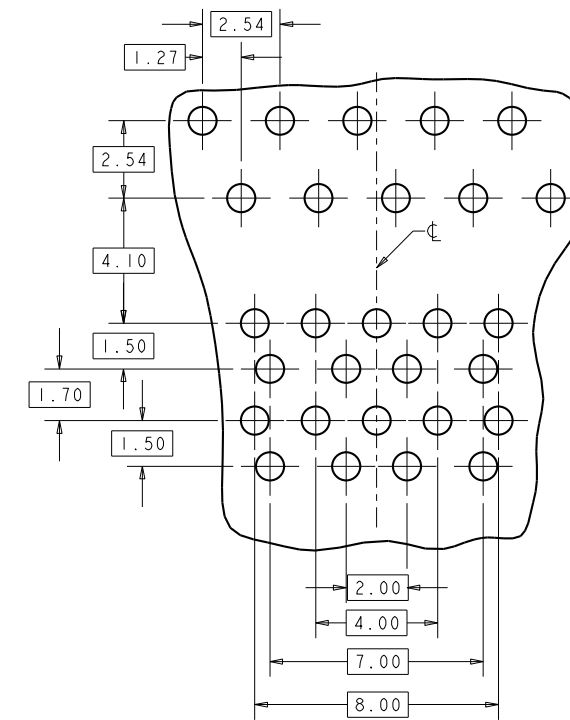
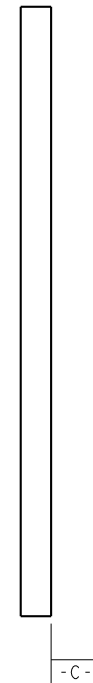
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THIS SHEET FOR I-2250125-2

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 09NOV2013 JAMISON CHEN		 trp CONNECTOR a bel group		DONGGUAN CHINA			
		CHK 09NOV2013 QUENTIN LIU							
DIMENSIONS: mm		TOLERANCES, UNLESS OTHERWISE SPECIFIED:		APVD 09NOV2013 TONY YUAN					
		0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±		MODEL NAME MAGJACK		DESC MAGJACK OVER DUAL USB3.0 URGI53 CIRCUIT, GIGABIT, W/ LEDS			
PRODUCT SPEC -		APPLICATION SPEC -		OVER USB NON-PoE		SIZE A2	CAGE CODE	DRAWING NO C-2250125	RESTRICTED TO -
CUSTOMER DRAWING						SCALE 3:1	SHEET 3	OF 5	REV 8

RECOMMENDED PC BOARD LAYOUT
(VIEW FROM COMPONENT SIDE)

DETAIL A
SCALE 6:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 09NOV2013 JAMISON CHEN CHK 09NOV2013 QJENTIN LIU APVD 09NOV2013 TONY YUAN		 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±. 1 PLC ±. 2 PLC ±0.25 3 PLC ±. 4 PLC ±. ANGLES ±. APPLICATION SPEC		MODEL NAME MAGJACK		DESC MAGJACK OVER DUAL USB3.0 URG153 CIRCUIT, GIGABIT, W/ LEDS	
PRODUCT SPEC -		OVER USB NON-PoE		SIZE A2		CAGE CODE C=2250125	
		CUSTOMER DRAWING		DRAWING NO C=2250125		RESTRICTED TO -	
				SCALE 3:1		SHEET 4 OF 5 REV 8	

D

C

B

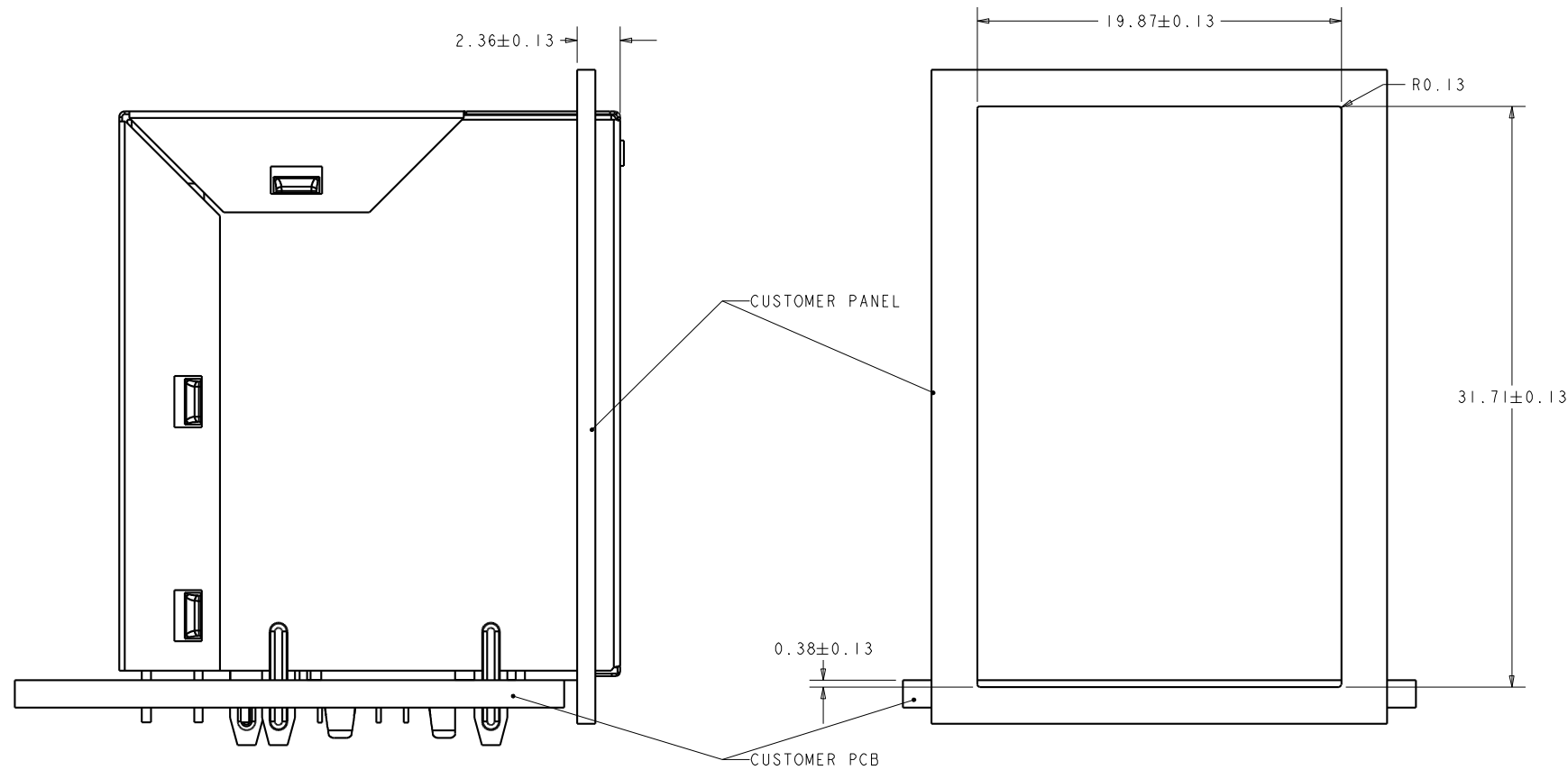
A

D

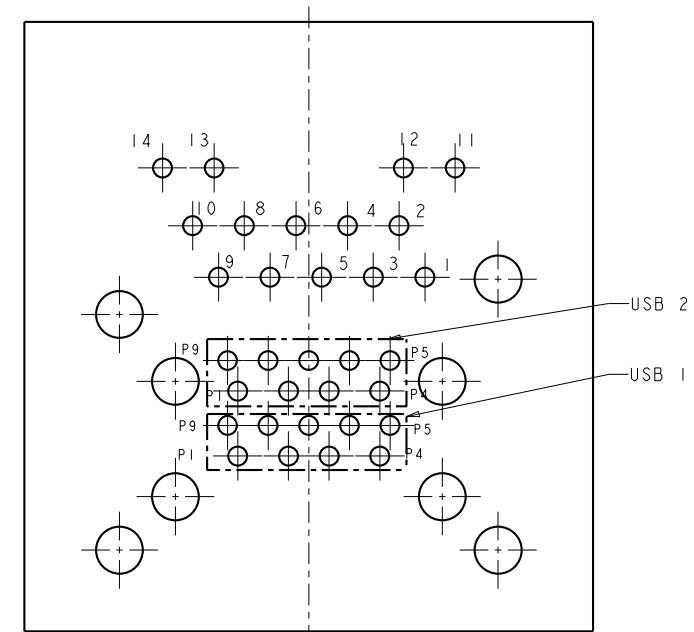
C

B

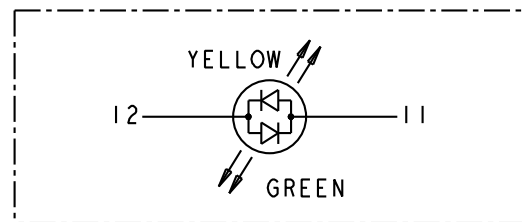
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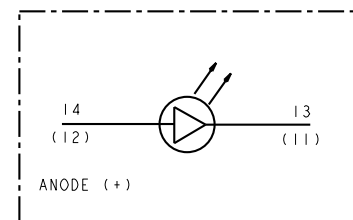
SUGGEST CUSTOMER CUTOUT DIMENSIONS

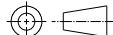


BI-COLOR LED



SINGLE COLOR LED



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		CHK QUENTIN LIU 09NOV2013						
DIMENSIONS: mm		APVD TONY YUAN 09NOV2013	MODEL NAME		DESC			
		MAGJACK OVER USB NON-PoE		MAGJACK OVER DUAL USB3.0 URGI53 CIRCUIT, GIGABIT, W/ LEDS				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		SIZE		CAGE CODE	DRAWING NO	RESTRICTED TO		
0 PLC ±- 1 PLC ±- 2 PLC ±0.25 3 PLC ±- 4 PLC ±- ANGLES ±- APPLICATION SPEC		A2			C=2250125	-		
PRODUCT SPEC		CUSTOMER DRAWING				SCALE 3:1	SHEET 5 OF 5	REV 8
-								