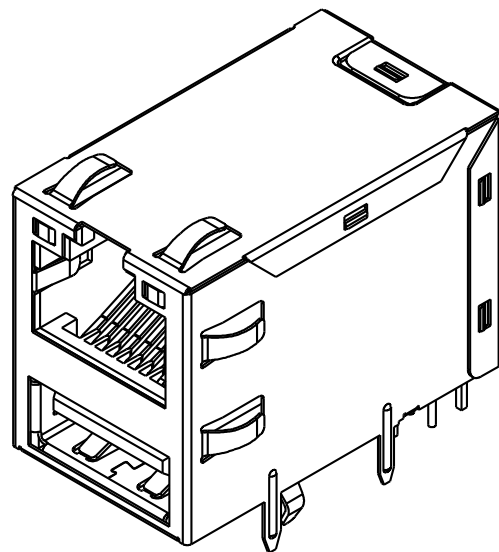


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

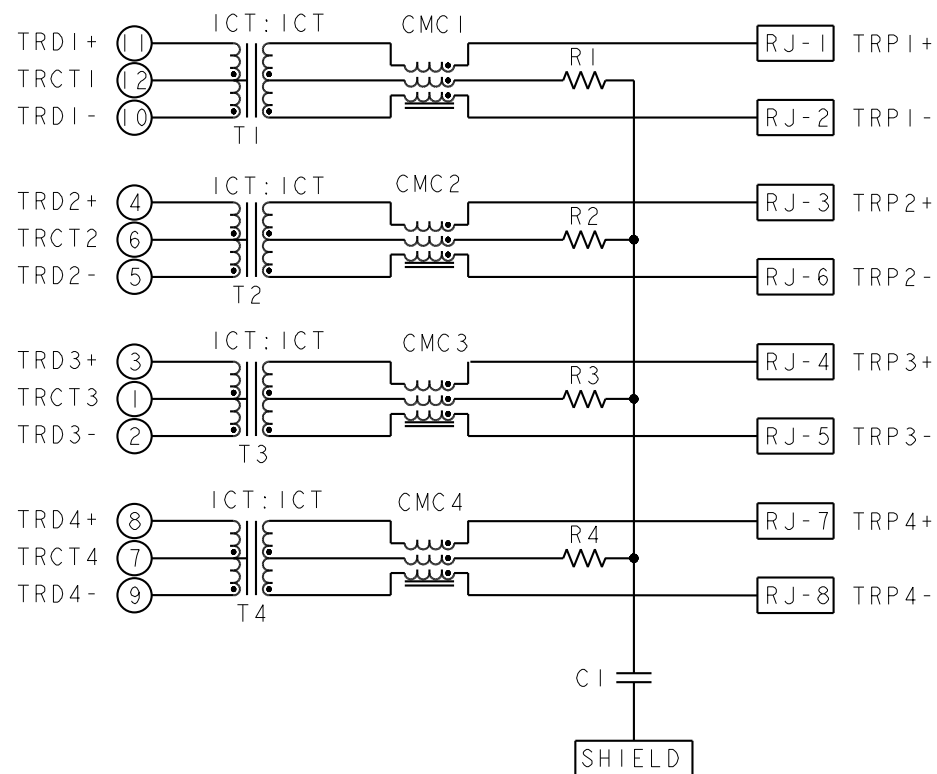
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
D		EC-1411035, LOGO CHANGE	26DEC2014	JC	TY



URG18ET GIGABIT CIRCUIT



C1=1000pF, 2KV, $\pm 10\%$, DECOUPLING CAPACITOR.
R1-R4=75 ohms, 1/16W, $\pm 5\%$, RESISTORS.



RJ45 MATERIALS

- HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATED UL 94V-0
- SHIELD: BRASS, 0.2 mm THICK, PREPLATED WITH MIN 0.76 μm SEMI-BRIGHT NICKEL POST DIPPED WITH 2.54 μm MIN SAC SOLDER AT GROUND PINS
- CONTACT: PHOSPHOR BRONZE, WITH 1.27 μm MIN OVERALL NICKEL UNDERPLATE AND SELECTIVE 1.27 μm MIN GOLD PLATING AT MATING INTERFACE
- SOLDER TAIL: COPPER STEEL, PLATED WITH 2.54 μm MIN MATTE TIN
- LED: DIFFUSED EPOXY LENS, 0.5 mm SQUARE CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03 μm MIN SILVER OVER 1.02 μm MIN NICKEL OVER 1.02 μm MIN COPPER UNDERPLATE. POST PLATED WITH 2.54 μm MIN MATTE TIN OR SAC TIN SOLDER DIP

USB MATERIALS:

- HOUSING: THERMOPLASTIC, FLAMMABILITY RATED UL94V-0
- CONTACT: COPPER ALLOY WITH 0.76 MIN GOLD PLATING OVER 1.27 μm MIN OVERALL NICKEL UNDERPLATE
- SHELL: COPPER ALLOY, PREPLATED WITH MIN 0.76 μm SEMI-BRIGHT NICKEL, 2.54 μm TIN PLATED



MAGNETICS

- APPLICATION: 10/100/1000 BASE-T, EXTENDED TEMPERATURE
- IMPEDANCE: 100 OHMS
- TURNS RATIO(CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE(OCIL): 350 μH MIN @100kHz, 0.1 VRMS, 8mADC BIAS FROM -40°C TO 85°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 AND WITH ALL PORTS CONNECTED
- (FOR SINGLE PORT PRODUCT ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC)

3. OPERATING TEMPERATURE -40°C TO +85°C.



LED IS DRIVEN WITH CONSTANT CURRENT APPROX 20 mA

- DOMINANT WAVE LENGTH(λ_D): GREEN 568 nm TYP, AT IF=20mA
- FORWARD VOLTAGE(VF): GREEN 2.2V AT IF=20mA
- DOMINANT WAVELENGTH (λ_D): YELLOW 588 nm TYP. @ IF=20mA
- FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
- DOMINANT WAVELENGTH (λ_D): ORANGE 605 nm TYP. @ IF=20mA
- FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. @ IF=20mA



RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.



TRP LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY LOGO TO BE MARKED IN APPROXIMATE LOCATION SHOWN.
DATE CODE: "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1



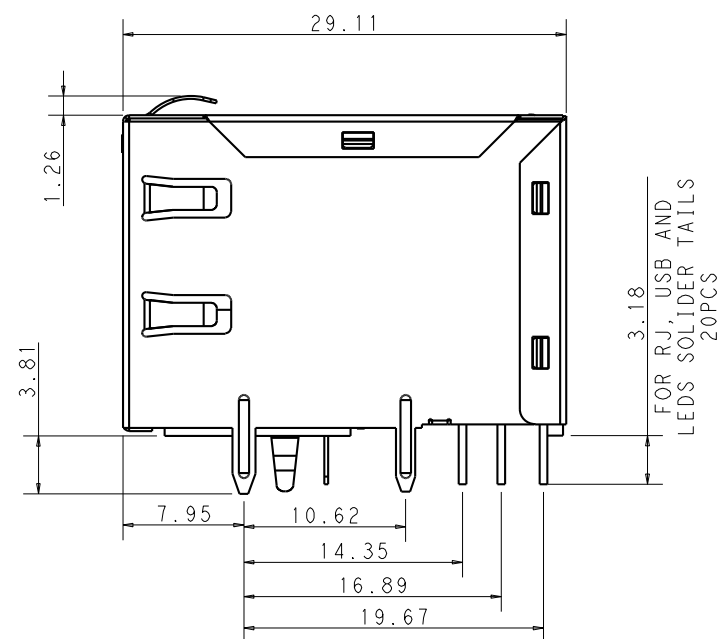
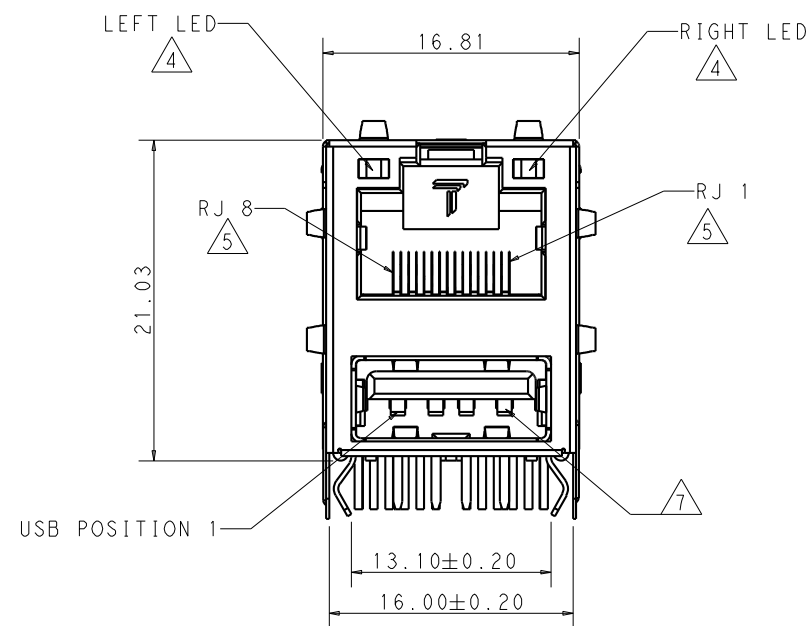
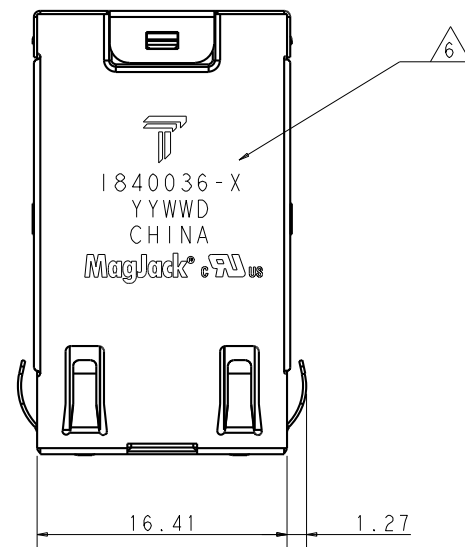
MATING INTERFACE COMPLIES WITH USB SPECIFICATION REV 2.0.

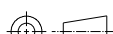


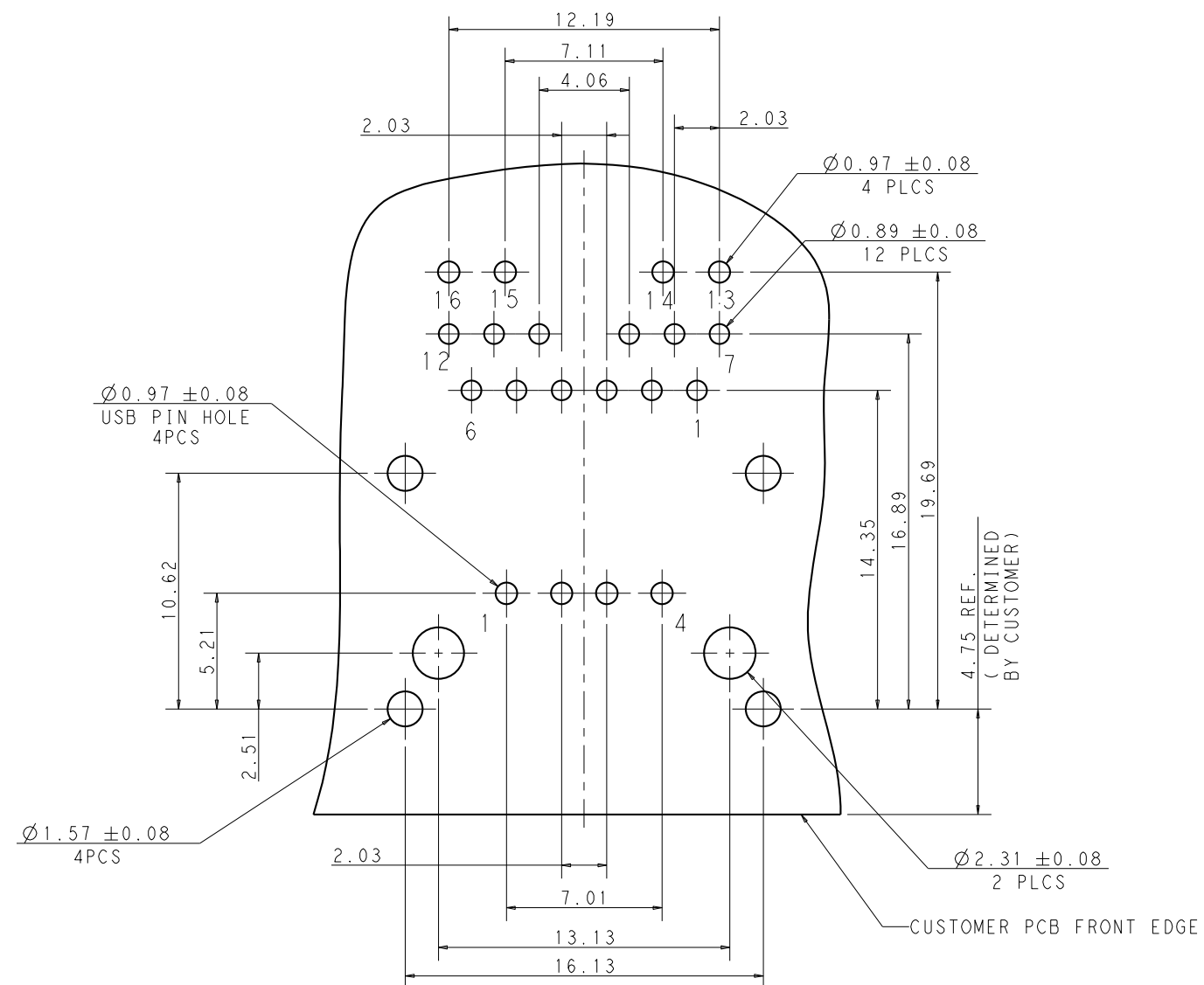
THESE PARTS ARE COMPLIANT WITH WAVE SOLDERING PROCESS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

GREEN/ORANGE	YELLOW	1-1840036-3
GREEN	GREEN	1840036-1
LEFT LED	RIGHT LED	PART NUMBER

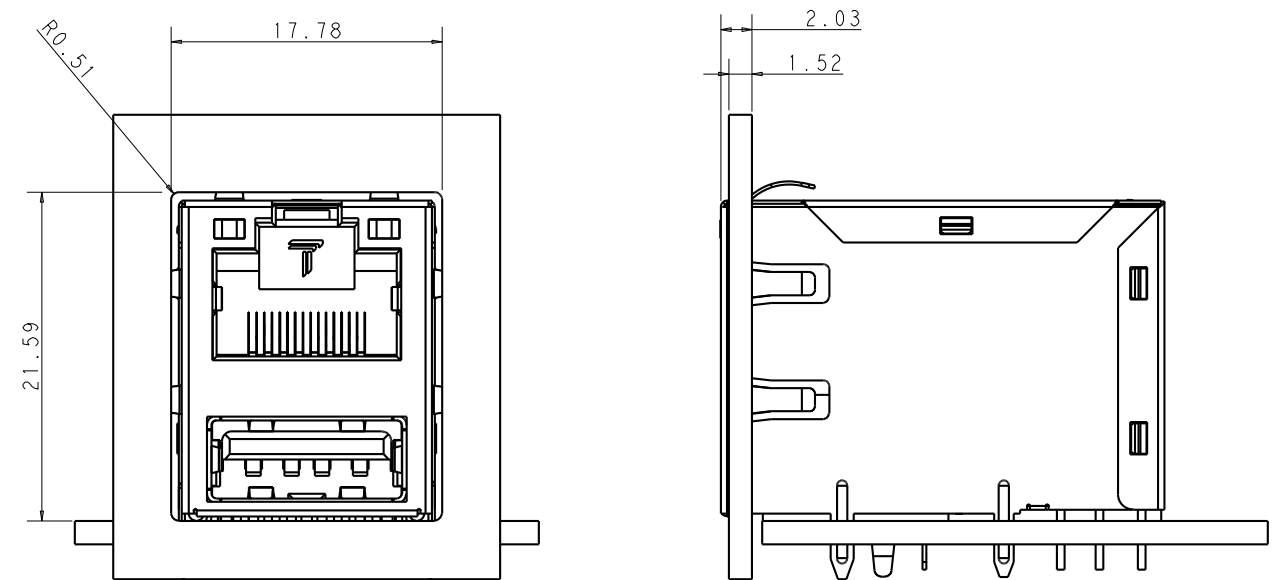
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN PAUL PENG 28FEB2011	 trp CONNECTOR a bel group		DONGGUAN CHINA			
		CHK QUENTIN LIU 28FEB2011						
		APVD LIJUN RAO 28FEB2011						
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ± APPLICATION SPEC		DESC MAGJACK OVER SINGLE USB URG18ET, GIGABIT CIRCUIT, W/ LEDS				
		MAGJACK OVER USB NON-PoE		SIZE A2			CAGE CODE C-1840036	RESTRICTED TO -
PRODUCT SPEC 108-104005				CUSTOMER DRAWING		SCALE 3:1	SHEET 1 OF 4	REV D



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN PAUL PENG	28FEB2011		 trp CONNECTOR a bel group		DONGGUAN CHINA			
		CHK QUENTIN LIU	28FEB2011							
		APVD LIJUN RAO	28FEB2011							
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MODEL NAME		DESC				
		0 PLC ±- 1 PLC ±- 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±- ANGLES ±- APPLICATION SPEC		MAGJACK		MAGJACK OVER SINGLE USB URG18ET, GIGABIT CIRCUIT, W/ LEDS				
PRODUCT SPEC				OVER USB NON-PoE		SIZE A2	CAGE CODE	DRAWING NO C=1840036	RESTRICTED TO -	
108-104005		-		CUSTOMER DRAWING				SCALE 3:1	SHEET 2 OF 4	REV D

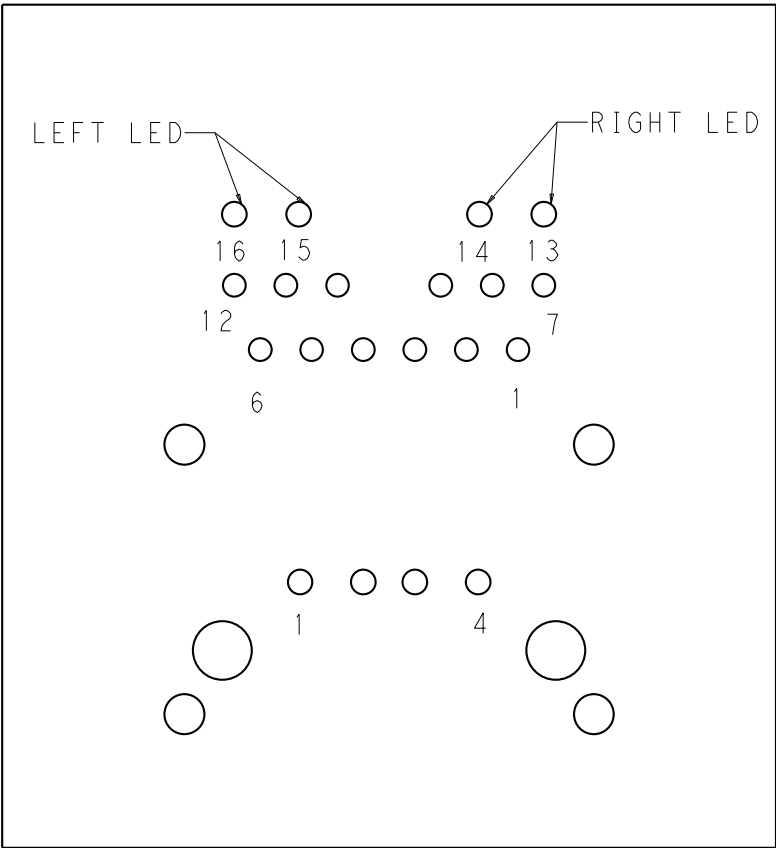


RECOMMENDED PCB LAYOUT(TOL: ± 0.08)
COMPONENT SIDE SHOWN

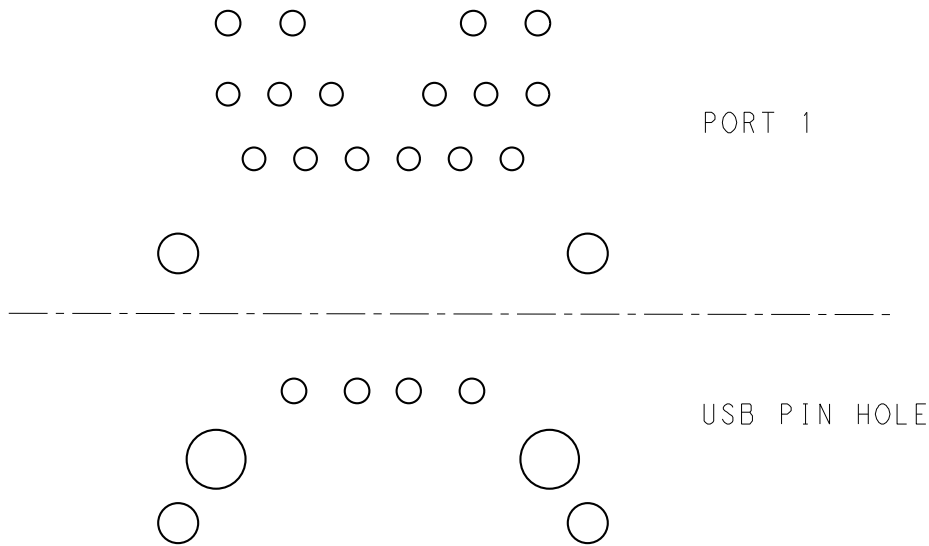


SUGGESTED PANEL CUT-OUT DIMENSION (TOL: ± 0.1)

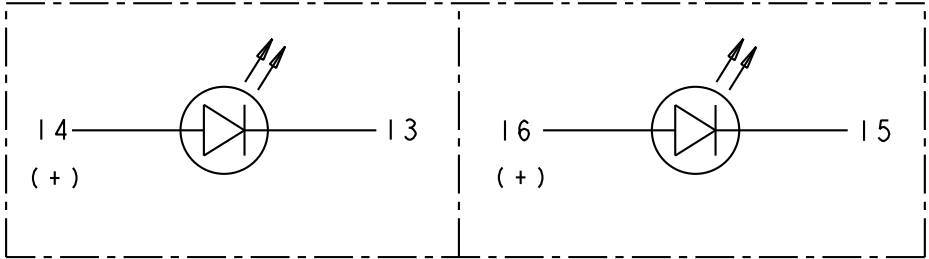
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 28 FEB 2011 PAUL PENG CHK 28 FEB 2011 QUINTEN LIU APVD 28 FEB 2011 LTJUN RAO		 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±. 1 PLC ±. 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±. ANGLES ±. APPLICATION SPEC		DESC MAGJACK OVER SINGLE USB URG18ET, GIGABIT CIRCUIT, W/ LEDS MODEL NAME MAGJACK OVER USB NON-PoE		SIZE A2 CAGE CODE DRAWING NO C=1840036 RESTRICTED TO -	
PRODUCT SPEC 108-104005		-		CUSTOMER DRAWING		SCALE 3:1 SHEET 3 OF 4 REV D	



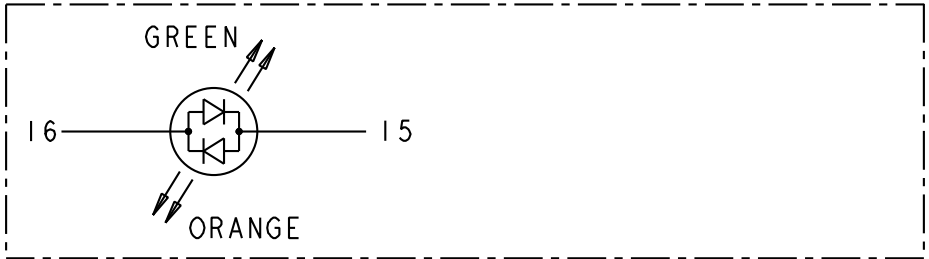
SCALE 5:1
FRONT PRINT
COMPONENT SIDE

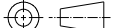


SINGLE COLOR LED



BI-COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN PAUL PENG 28FEB2011	 trp CONNECTOR a bel group		DONGGUAN CHINA				
		CHK QUENTIN LIU 28FEB2011							
DIMENSIONS: mm		APVD LIJUN RAO 28FEB2011	MODEL NAME MAGJACK OVER USB NON-PoE		DESC MAGJACK OVER SINGLE USB URG18ET, GIGABIT CIRCUIT, W/ LEDS				
		0 PLC ±- 1 PLC ±- 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±- ANGLES ±- APPLICATION SPEC		SIZE A2	CAGE CODE	DRAWING NO C=1840036	RESTRICTED TO -		
PRODUCT SPEC 108-104005				CUSTOMER DRAWING			SCALE 3:1	SHEET 4 OF 4	REV D