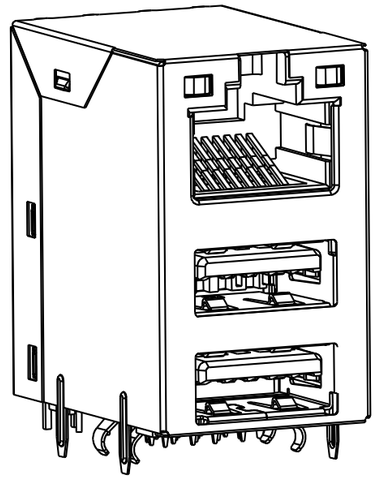
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

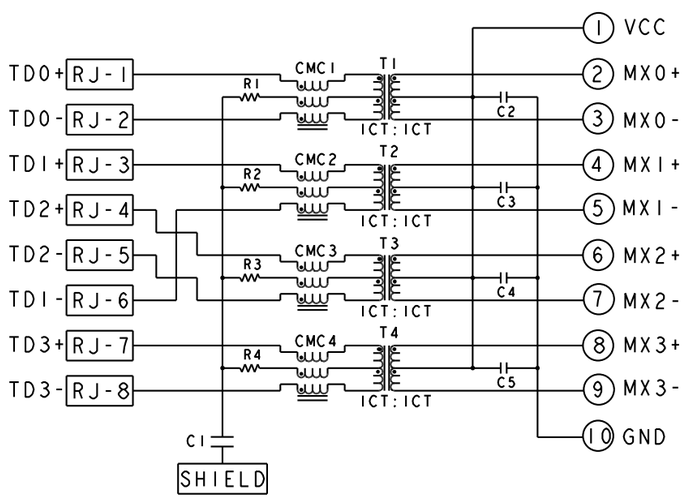
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7807851 6217391 6149050 7924130

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	8	EC-1411035, LOGO CHANGE;ADD USB COLOR SPEC	09OCT2014	JC	TY



URG153 GIGABIT CIRCUIT△2



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 DIPED 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
   COMMOM 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: YYWWD 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

DIM A	TOP&SIDE EMI FINGERS	LED2	LED1	PART NUMBER
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

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±0.25
3 PLC ±-
4 PLC ±-
ANGLES ±-

PRODUCT SPEC -

APPLICATION SPEC -

DWN JAMISON CHEN 09NOV2013
CHK QUENTIN LIU 09NOV2013
APVD TONY YUAN 09NOV2013

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK OVER USB NON-PoE

DESC: MAGJACK OVER DUAL USB3.0 URG153 CIRCUIT, GIGABIT, W/ LEDS

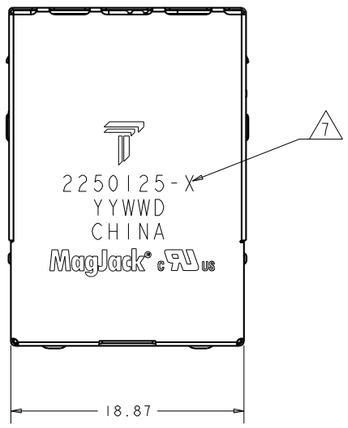
SIZE A2 | CAGE CODE | DRAWING NO C-2250125 | RESTRICTED TO -

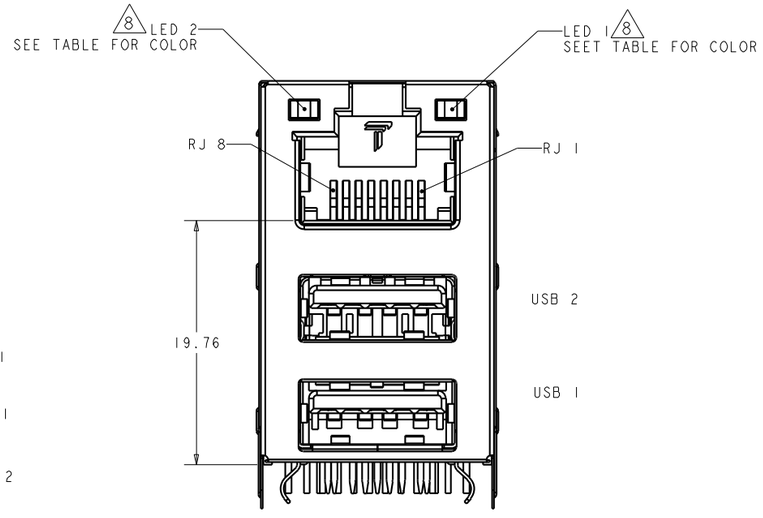
CUSTOMER DRAWING | SCALE 3:1 | SHEET 1 OF 5 | REV 8

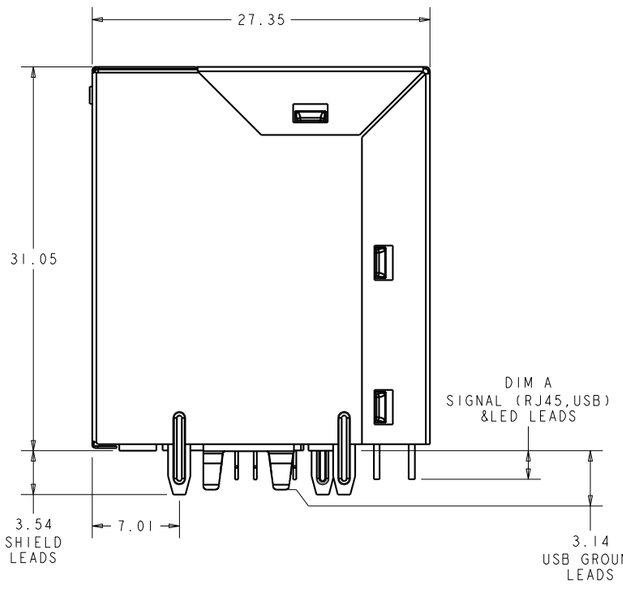
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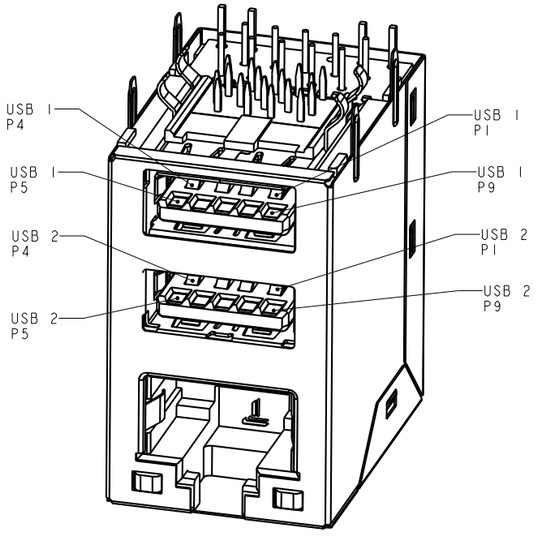
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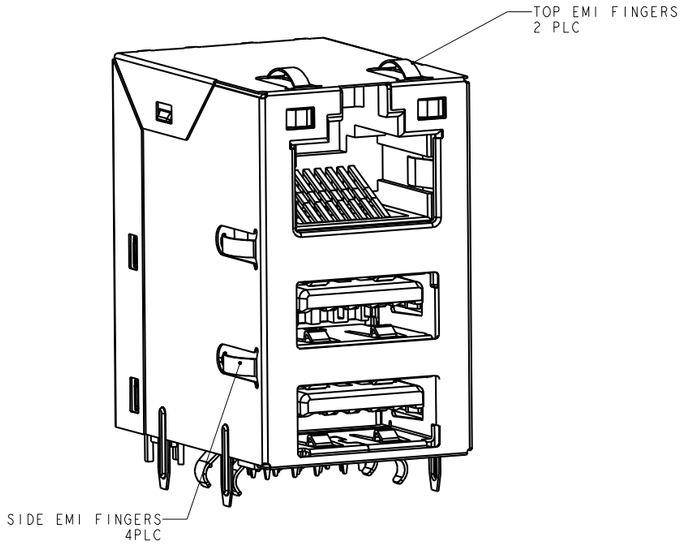




THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JAMISON CHEN 09NOV2013	trp CONNECTOR a bel group — DONGGUAN CHINA
		CHK QUENTIN LIU 09NOV2013	
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±- 2 PLC ±0.25 3 PLC ±- 4 PLC ±- ANGLES ±-	APVD TONY YUAN 09NOV2013	DESC MAGJACK OVER DUAL USB3.0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

xxxxx

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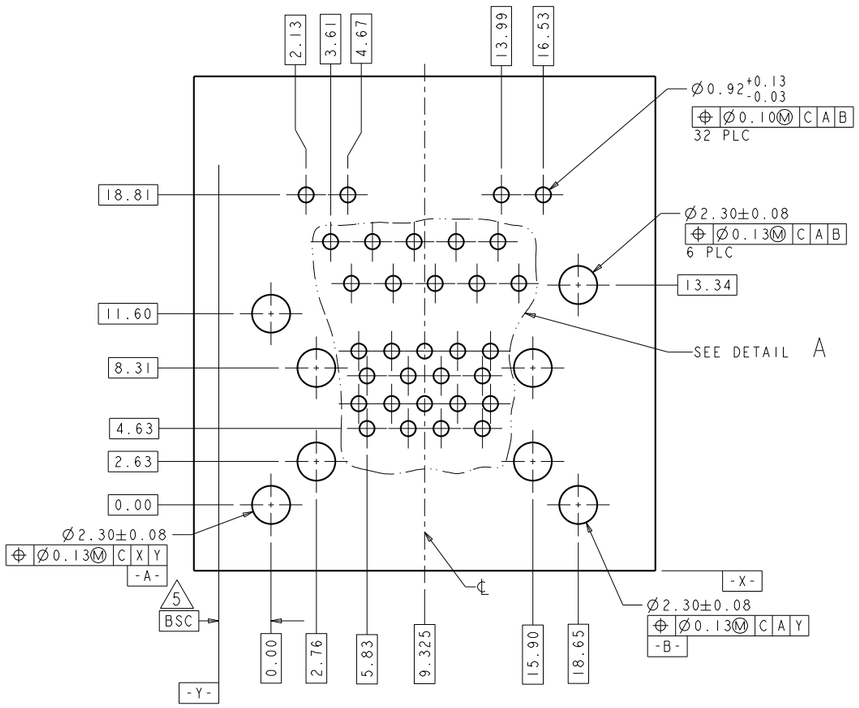


THIS SHEET FOR 1-2250125-2

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JAMISON CHEN 09NOV2013	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 ±-	CHK QUENTIN LIU 09NOV2013	DESC MAGJACK OVER DUAL USB3.0 URG153 CIRCUIT, GIGABIT, W/ LEDS
PRODUCT SPEC -	APPLICATION SPEC -	APVD TONY YUAN 09NOV2013	SIZE A2 · CAGE CODE · DRAWING NO C-2250125 · RESTRICTED TO -
MODEL NAME MAGJACK OVER USB NON-PoE	CUSTOMER DRAWING	SCALE 3:1 · SHEET 3 OF 5 · REV 8	

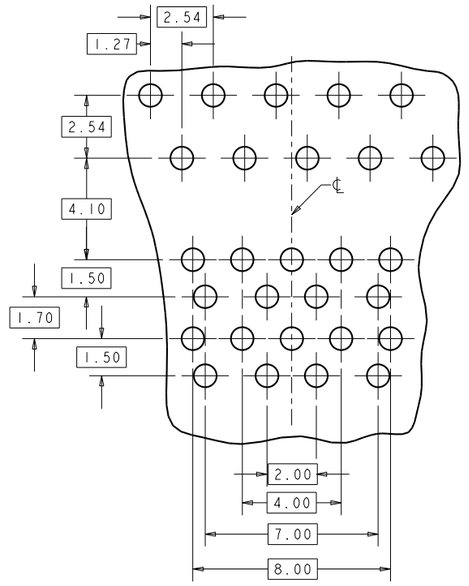
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RECOMMENDED PC BOARD LAYOUT
(VIEW FROM COMPONENT SIDE)



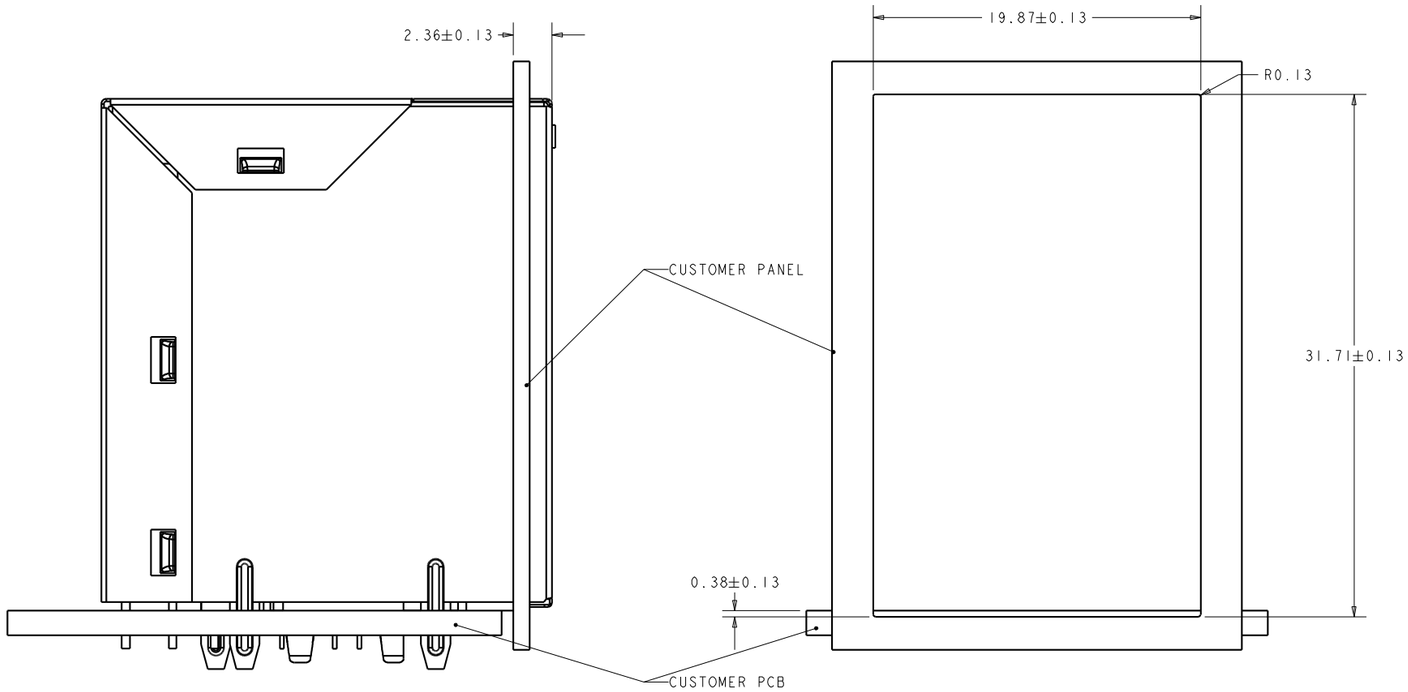


DETAIL A
SCALE 6:1

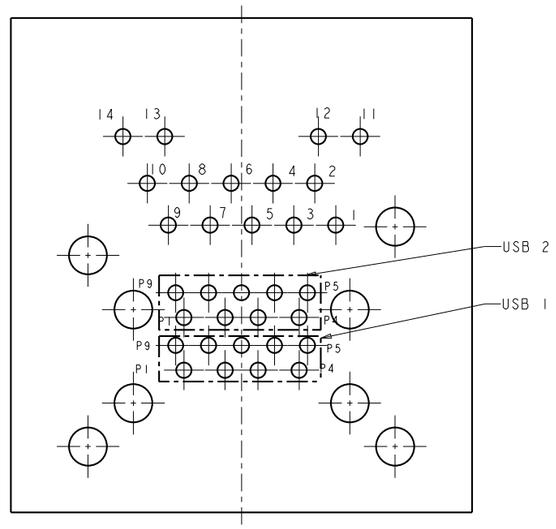
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 09NOV2013 JAMISON CHEN	trp CONNECTOR a bel group — DONGGUAN CHINA
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±- 2 PLC ±0.25 3 PLC ±- 4 PLC ±- ANGLES ±-	CHK 09NOV2013 QUENTIN LIU	DESC MAGJACK OVER DUAL USB3.0 URG153 CIRCUIT, GIGABIT,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

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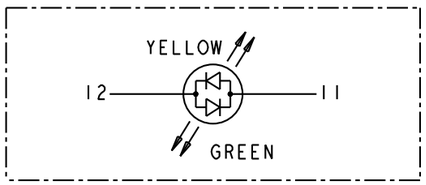
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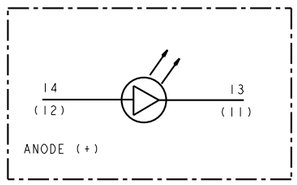
SUGGEST CUSTOMER CUTOUT DIMENSIONS



BI-COLOR LED



SINGLE COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 09NOV2013 JAMISON CHEN CHK 09NOV2013 QUENTIN 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 ±-	MODEL NAME MAGJACK OVER USB NON-PoE	DESC MAGJACK OVER DUAL USB3.0 URG153 CIRCUIT, GIGABIT, W/ LEDS
PRODUCT SPEC -	APPLICATION SPEC -	SIZE A2 · CAGE CODE · DRAWING NO C-2250125 · RESTRICTED TO -	
CUSTOMER DRAWING		SCALE 3:1 · SHEET 5 OF 5 · REV 8	

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