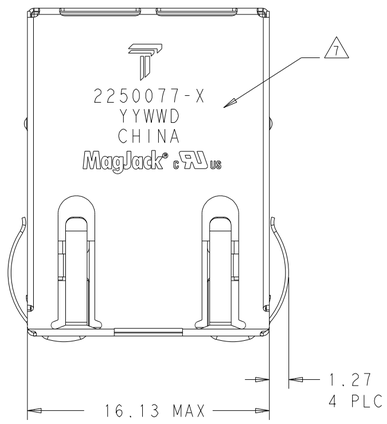
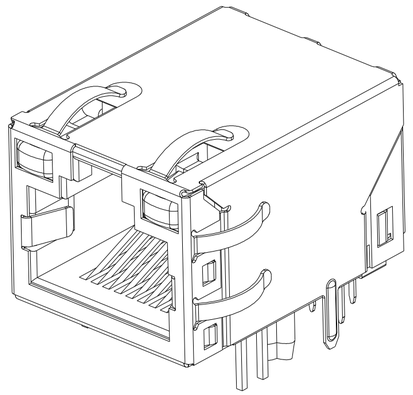
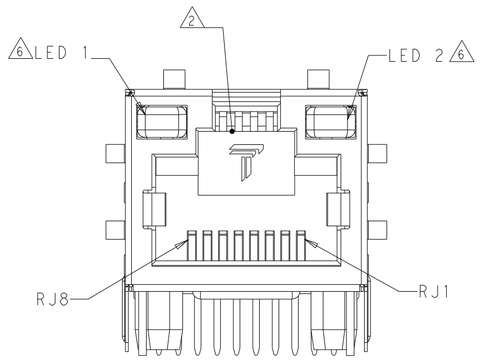
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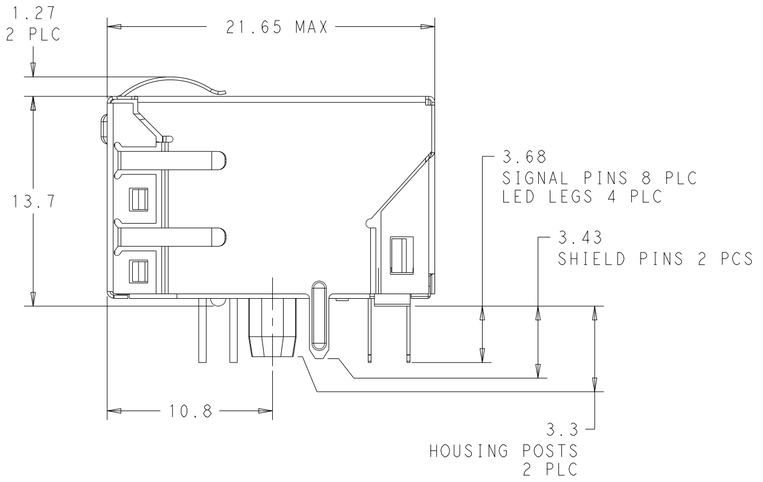
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
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7429195 7717749 7808751 6217391 6149050 7924130

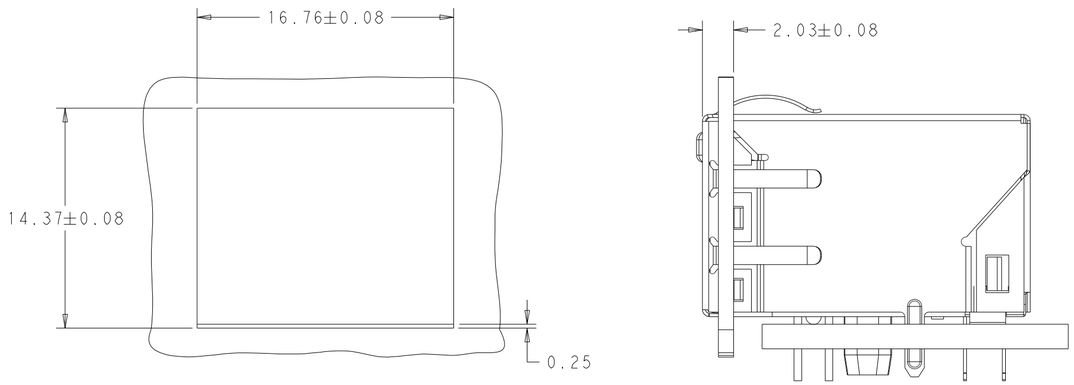
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	2	EC-1411035 COMPANY LOGO CHANGE	05JAN2015	DP	TY











SUGGESTED PANEL CUTOUT

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,
   - SOLDER TAILS: 0.25mmTHICK, 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: 10/100 BASE-T, PoE, EXTENDED TEMPERATURE
   -IMPEDANCE: 100 OHMS
   -TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
   -OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM-40°C TO +85°C, TX AND RX
   -POE CURRENT: 350mADC MAX
   -PERFORMANCE @ 25°C:
      INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
      RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
                        18-20LOG(f/30)dB MIN FROM 30.1MHz TO 60MHz
                        12dB MIN FROM 60.1MHz TO 80MHz
      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 FOR 60 SECONDS WITH A RISE TIME OF 500 V/SEC

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

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

6 THE LED WITH 250 OHM RESISTORS. LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA
   LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP @ VF=5V
              FORWARD CURRENT (IF): GREEN 12mA TYP @ VF = 5V
              DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP @ VF=5V
              FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF = 5V

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.

GREEN	YELLOW	2250077-1
11 → 12	13 → 14	PART NUMBER
LED 1	LED 2	

THIS DRAWING IS A CONTROLLED DOCUMENT.

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 ±

PRODUCT SPEC: -

APPLICATION SPEC: -

DWN 15MAY2014 ROY LIU
CHK 15MAY2014 TOWER YU/ FRANK LIU
APVD 15MAY2014 TONY YUAN

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE PoE

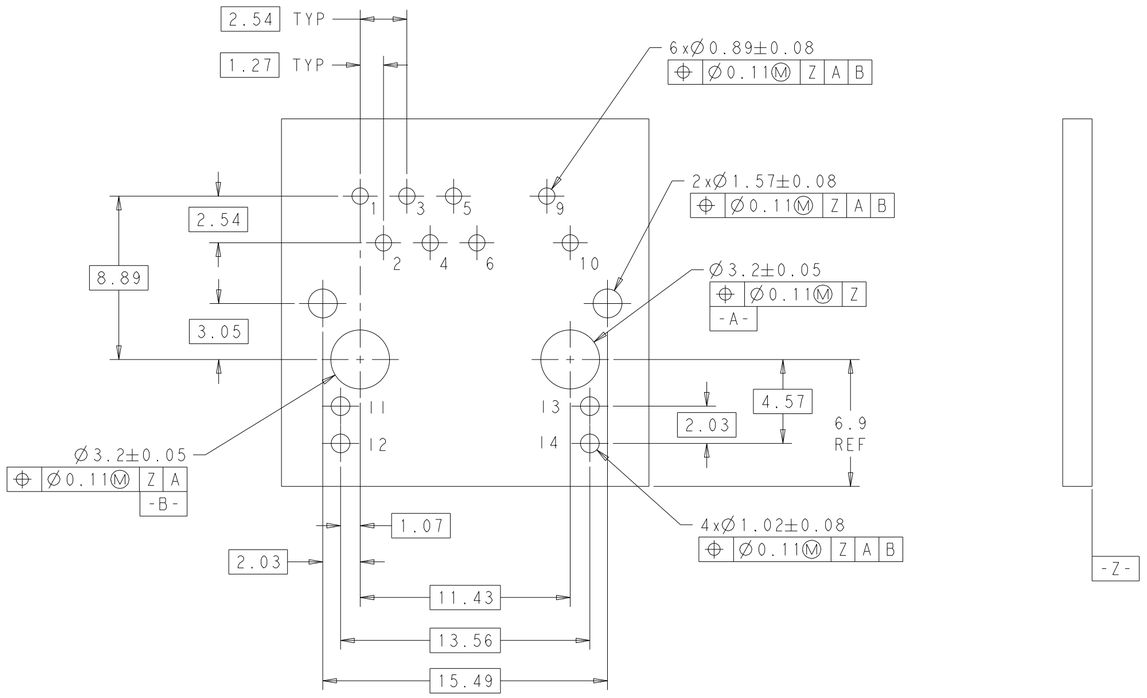
DESC: 1X1 7D144ET 10/100 POE TAB UP W/ LED

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		C=2250077	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 3 | REV 2

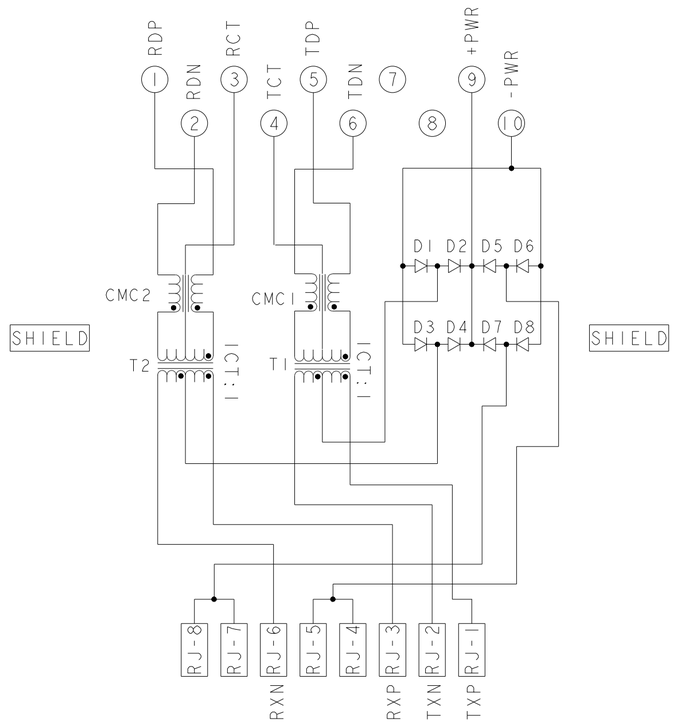
Please read our datasheet & drawing disclaimer here.

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SUGGESTED PCB LAYOUT

7D144ET PoE MAGNETIC CIRCUIT 3 5



D1-D8 = RECTIFIER DIODE
-FORWARD VOLTAGE, Vf = 1.2V MAX @ If= 0.5A
-FORWARD CURRENT, If = 0.5A MAX
-REVERSE VOLTAGE, Vr = 80V MAX

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN ROY LIU 15MAY2014	trp CONNECTOR a bel group	DONGGUAN CHINA
DIMENSIONS: mm	CHK TOWER YU/ FRANK LIU 15MAY2014	DESC	1X1 7D144ET 10/100 POE TAB UP W/ LED
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25, 1 PLC ±0.25, 2 PLC ±0.25, 3 PLC ±0.25, 4 PLC ±, ANGLES ±	APVD TONY YUAN 15MAY2014	MODEL NAME MAGJACK SINGLE PoE	SIZE A1 / CAGE CODE / DRAWING NO C-2250077 / RESTRICTED TO -
PRODUCT SPEC -	APPLICATION SPEC -	CUSTOMER DRAWING	SCALE 4:1 / SHEET 2 OF 3 / REV 2

xxxxx

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C_2250077					STOCK DISPOSITION			
					A: CONTINUE AS IS B: REWORK C: SCRAP		D: USE OLD FIRST E: PARTS TO CONFORM 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)
15MAY2014	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-
05JAN2015	2	EC-1411035 COMPANY LOGO CHANGE	MARKET REQUEST	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.

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	±

PRODUCT SPEC: -

APPLICATION SPEC: -

DWN ROY LIU 15MAY2014
CHK TOWER YU/ FRANK LIU 15MAY2014
APVD TONY YUAN 15MAY2014

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE PoE

DESC: IXI 7D144ET 10/100 POE TAB UP W/ LED

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		C-2250077	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 3 OF 3 | REV 2

xxxxx