

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, OR 1.27um MIN NICKEL UNDERPLATE, WITH 0.05um GOLD PLATING OVER 0.76um MIN PALLADIUM NICKEL 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
- 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 0°C TO +70°C, TX AND RX
- 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

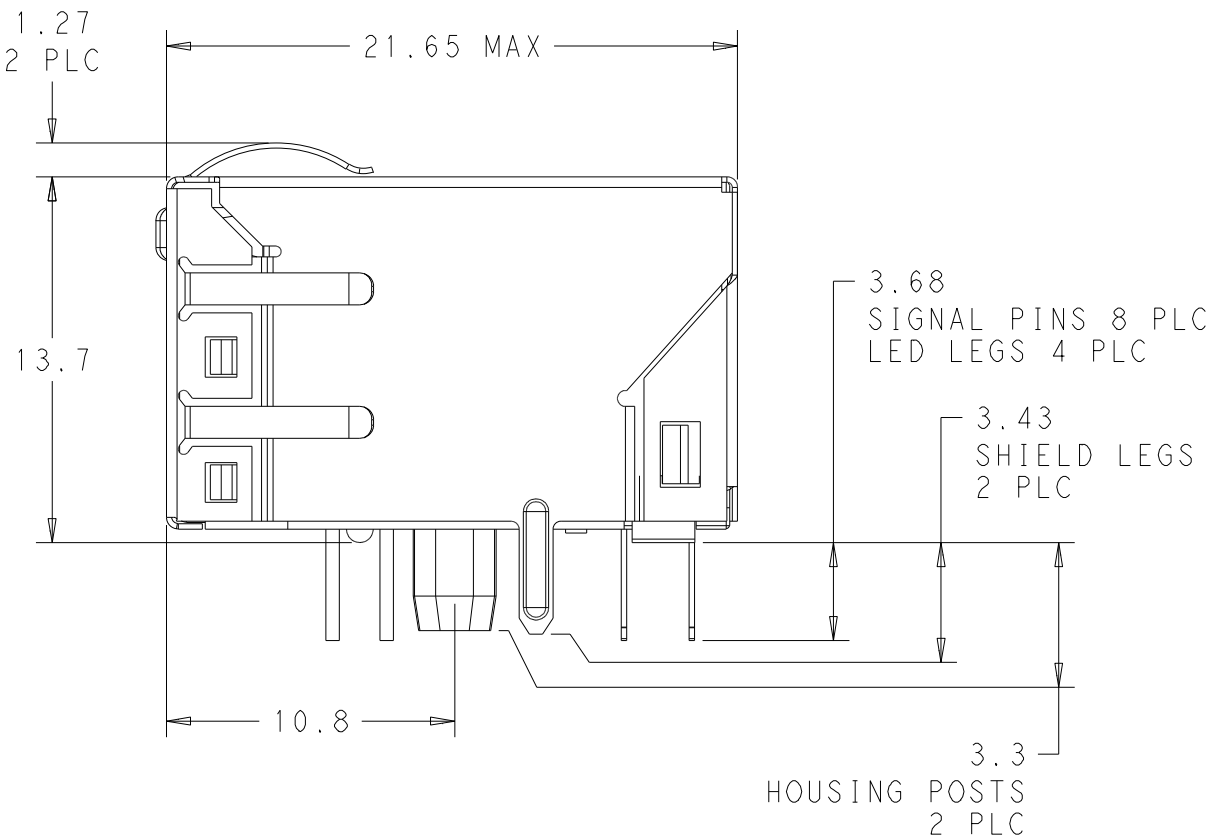
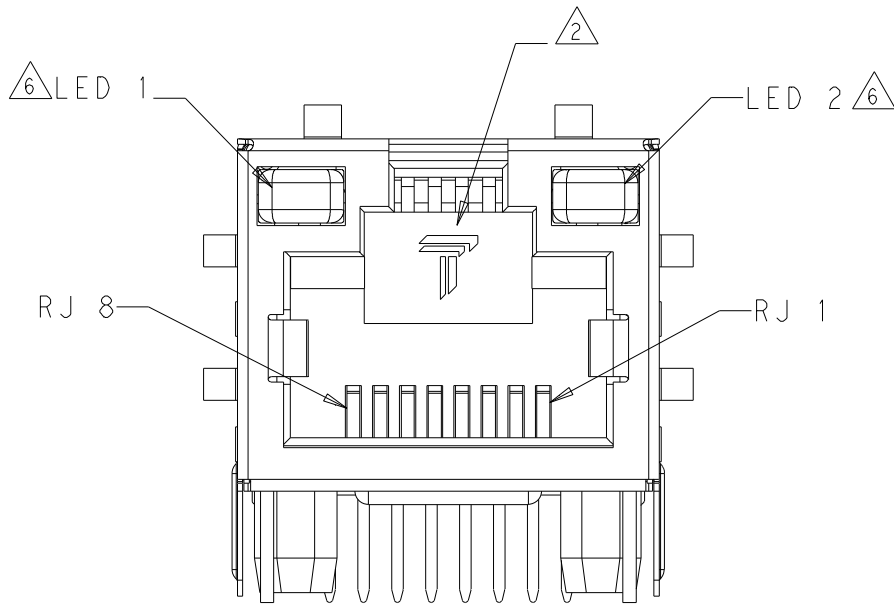
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.




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


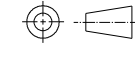
6 THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF RESISTORS.  
IF LEDS WITHOUT 250 OHM RESISTORS. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA  
LED COLOR: DOMINATE WAVELENGTH ( $\lambda$ D): GREEN 568 nm TYP. AT IF = 20mA  
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF = 20mA  
DOMINATE WAVELENGTH ( $\lambda$ D): YELLOW 588 nm TYP. AT IF = 20mA  
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF = 20mA  
IF LEDS WITH BUIL-IN 250 OHM RESISTORS. LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA  
LED COLOR: DOMINATE WAVELENGTH ( $\lambda$ D): GREEN 568 nm TYP. @ VF=5V  
FORWARD CURRENT (IF): GREEN 12mA TYP @ VF = 5V  
DOMINATE WAVELENGTH ( $\lambda$ D): YELLOW 588 nm TYP. @ VF=5V  
FORWARD CURRENT (IF): YELLOW 13mA TYP @ VF = 5V

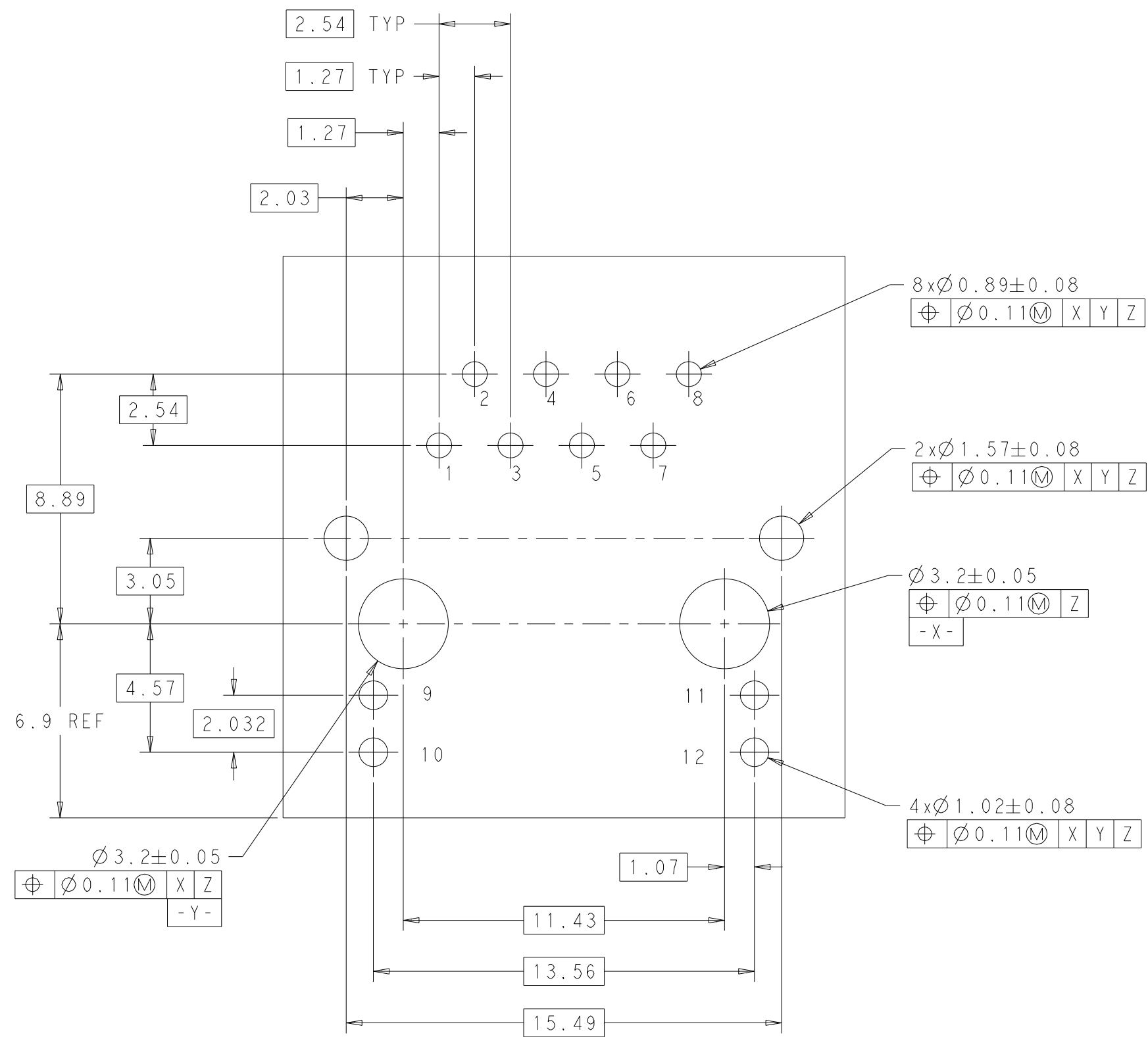
7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN. DATE CODE: YYWWD WHERE YY IS YEAR, WW IS WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1.

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.

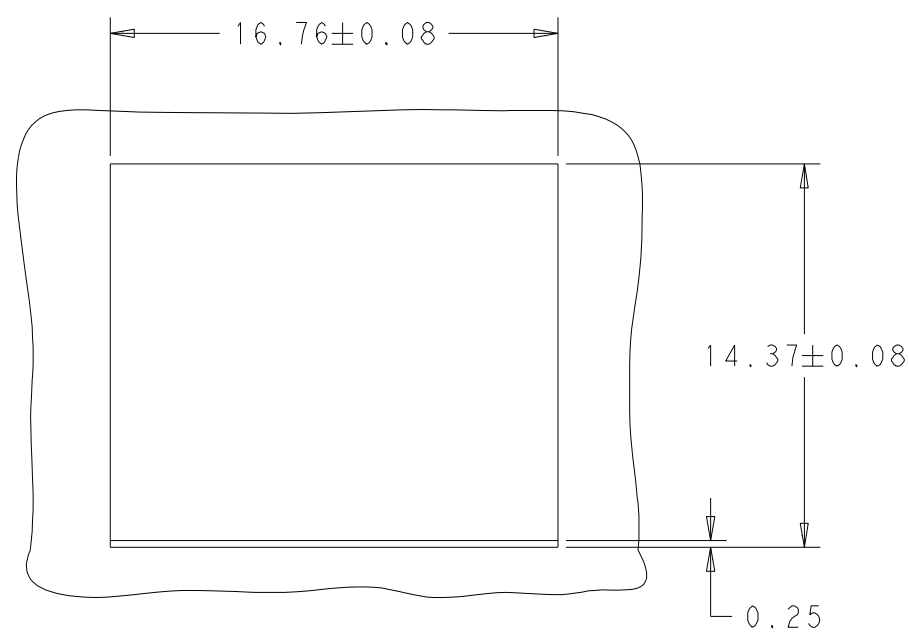


NO	YES	GREEN	-	YES	YELLOW	YES	2250067-8			
YES	YES	GREEN	YELLOW	NO	GREEN	NO	2250067-7			
YES	NO	GREEN	-	YES	YELLOW	YES	2250067-6			
YES	YES	GREEN	-	YES	GREEN	YES	2250067-5			
YES	YES	GREEN	-	NO	YELLOW	NO	2250067-4			
YES	YES	GREEN	-	NO	GREEN	NO	2250067-3			
YES	YES	YELLOW	-	YES	GREEN	YES	2250067-2			
YES	YES	GREEN	-	YES	YELLOW	YES	2250067-1			
2kV CAPACITOR	EMI FINGERS (1)	9	 10	10	 9	250 OHMS RESISTOR (6)	11	 12	250 OHMS RESISTOR (6)	PART NUMBER
		LED 1				LED 2				

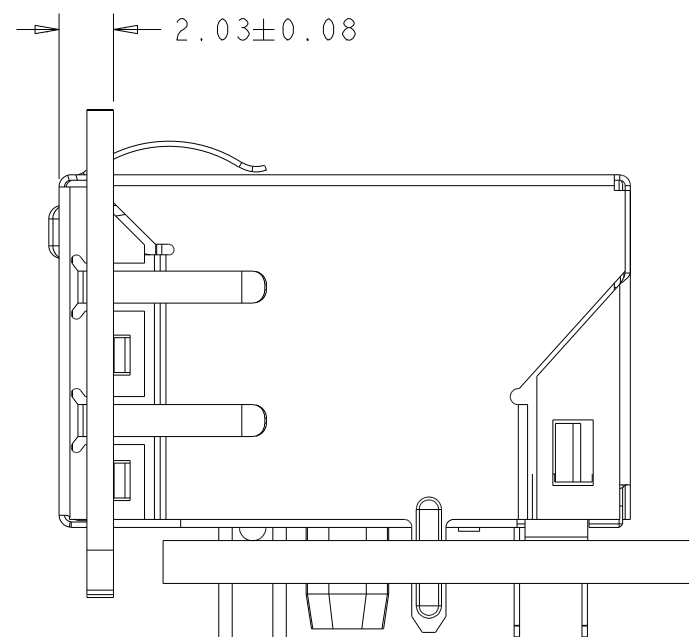
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU 17DEC2013	 <b>trp</b> CONNECTOR a bel group	DONGGUAN CHINA	
DIMENSIONS:		CHK TOWER YU/ FRANK LIU 17DEC2013			
mm		APVD TONY YUAN 17DEC2013			
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ±°	MODEL NAME MAGJACK	DESC IX1 726 10/100 TAB UP W/ LED	
PRODUCT SPEC		APPLICATION SPEC	SINGLE NON-POE	SIZE A1	RESTRICTED TO -
			CUSTOMER DRAWING	SCALE 4:1	SHEET 1 OF 3 REV 2



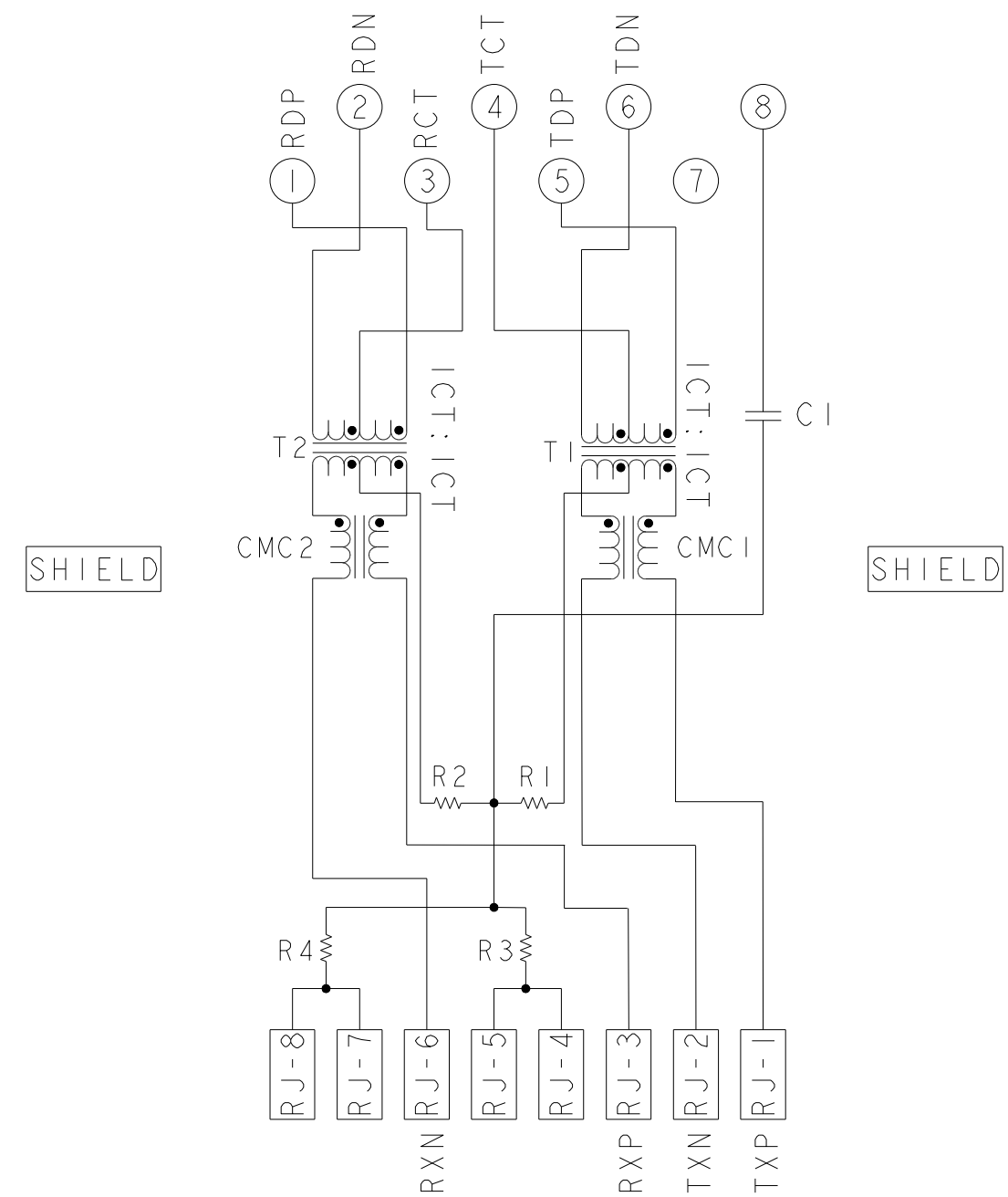
SUGGESTED PCB LAYOUT



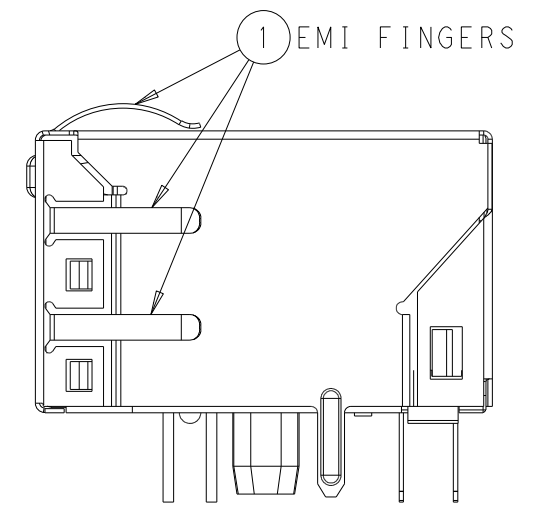
SUGGESTED PANEL CUTOUT



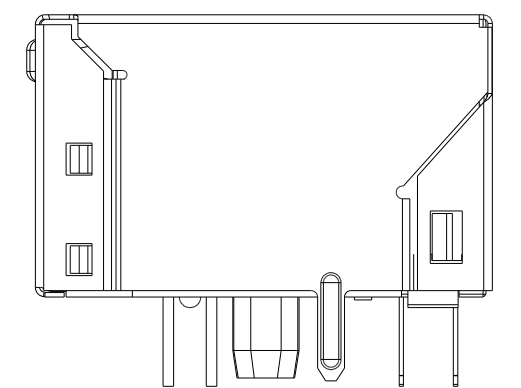
## 726 10/100 CIRCUIT $\triangle 3 \triangle 5$




C1=1000pF, 2kV CAPACITOR  
R1-R4 = 75 Ohms, 1/16 W RESISTORS



FOR 2250067-1, 2250067-2  
2250067-3, 2250067-4  
2250067-5, 2250067-7



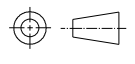
FOR 2250067-6

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU 17DEC2013	 <b>trp</b> CONNECTOR a bel group	DONGGUAN CHINA	
DIMENSIONS: mm		CHK TOWER YU/ FRANK LIU 17DEC2013			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPROV TONY YUAN 17DEC2013	MODEL NAME		DESC IX1 726 10/100 TAB UP W/ LED
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ±°		MAGJACK		SIZE A1	CAGE CODE DRAWING NO C=2250067
PRODUCT SPEC		SINGLE NON-POE		RESTRICTED TO	REV 2
CUSTOMER DRAWING		SCALE 4:1		SHEET 2 OF 3	REV 2

C_2250067					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)
17DEC2013	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-
04JAN2015	2	EC-1411035 COMPANY LOGO CHANGE	MARKET REQUEST	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm



PRODUCT SPEC

-


TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.25  
1 PLC ±0.25  
2 PLC ±0.25  
3 PLC ±0.25  
4 PLC ±  
ANGLES ±°  
APPLICATION SPEC -

OWN ROY LIU 17DEC2013  
CHK TOWER YU/ FRANK LIU 17DEC2013  
APVD TONY YUAN 17DEC2013

MODEL NAME  
MAGJACK  
SINGLE NON-POE

CUSTOMER DRAWING

 **trp** CONNECTOR  
a bel group

DONGGUAN CHINA

DESC  
IX1 726 10/100 TAB UP W/ LED

SIZE A1  
CAGE CODE  
DRAWING NO. 2250067  
RESTRICTED TO -

SCALE 4:1  
SHEET 3 OF 3  
REV 2

# Mouser Electronics

Authorized Distributor

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Bel:

[2250067-1](#)