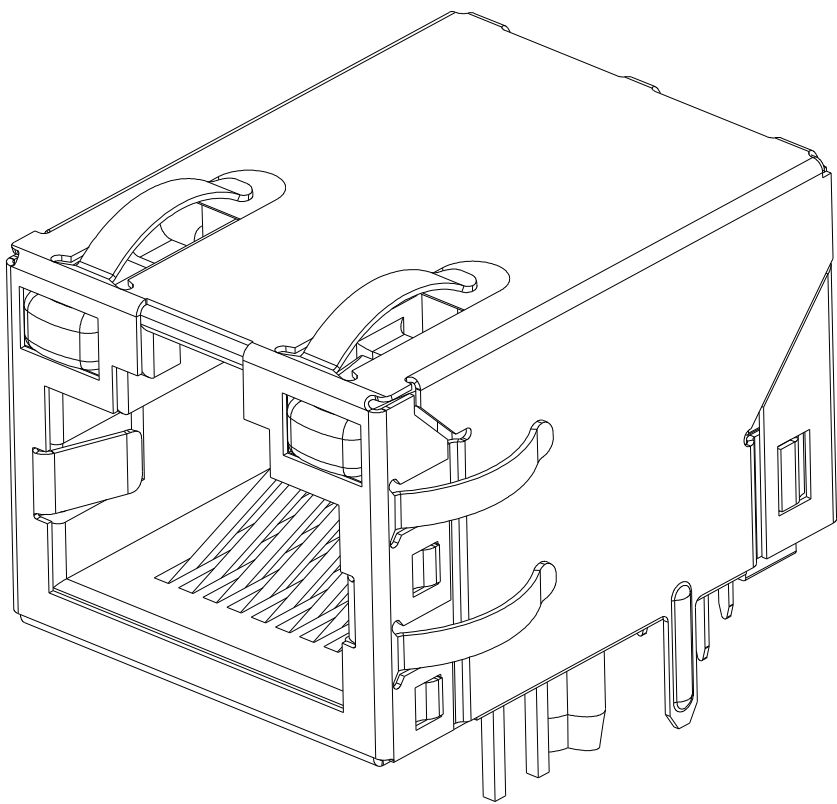
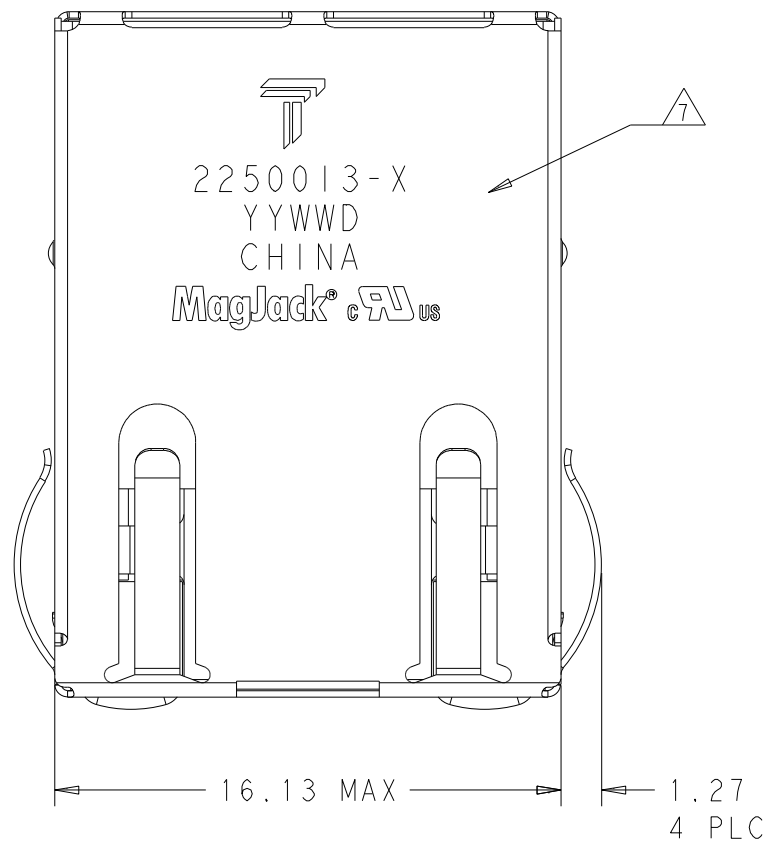


D

C

B

A



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: 10/100/1000 BASE-T
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN. @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTIONAL
- PERFORMANCE @ 25°C:
 - INSERTION LOSS (IL): 1.1dB MAX. FROM 0.5MHz TO 100MHz
 - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 - 12-20LOG(f/80)dB MIN. FROM 40.1MHz TO 100MHz
 - 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 (λD): GREEN 568 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF = 20mA
DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF = 20mA
DOMINATE WAVELENGTH (λD): ORANGE 605 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): ORANGE 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 (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.

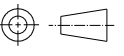
8. PART SHOULD BE RECOMMENDED FOR WAVE SOLDERING PROCESS,PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.

3.68	NO	GREEN	-	YES	YELLOW	-	YES	1-2250013-1
2.30	YES	GREEN	YELLOW	NO	GREEN	-	NO	2250013-9
3.68	YES	GREEN	-	NO	GREEN	ORANGE	NO	2250013-8
3.68	YES	GREEN	ORANGE	NO	YELLOW	-	NO	2250013-7
3.68	YES	GREEN	-	YES	GREEN	-	YES	2250013-6
3.68	YES	GREEN	-	NO	YELLOW	-	NO	2250013-5
3.68	YES	GREEN	YELLOW	NO	GREEN	YELLOW	NO	2250013-4
3.68	YES	GREEN	YELLOW	NO	GREEN	-	NO	2250013-3
3.68	YES	GREEN	YELLOW	NO	GREEN	-	YES	2250013-2
3.68	YES	YELLOW	-	YES	GREEN	-	YES	2250013-1
DIM A	EMI FINGERS	11  12	12  11	250 OHMS RESISTOR 	13  14	14  13	250 OHMS RESISTOR 	PART NUMBER
		LED 1			LED 2			

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

-

APPROVED

ROY LIU

13MAY2013

CHK

TOWER YU/ FRANK LIU

13MAY2013

APPROVED

TONY YUAN

13MAY2013

MODEL NAME

MAGJACK

SINGLE NON-PoE

CUSTOMER DRAWING

 **trp** CONNECTOR

DONGGUAN CHINA

DESC

IXI 7G140 GIGABIT TAB UP W/ LED

SIZE

A1

CAGE CODE

C=2250013

DRAWING NO

-

RESTRICTED TO

-

SCALE

3:1

SHEET

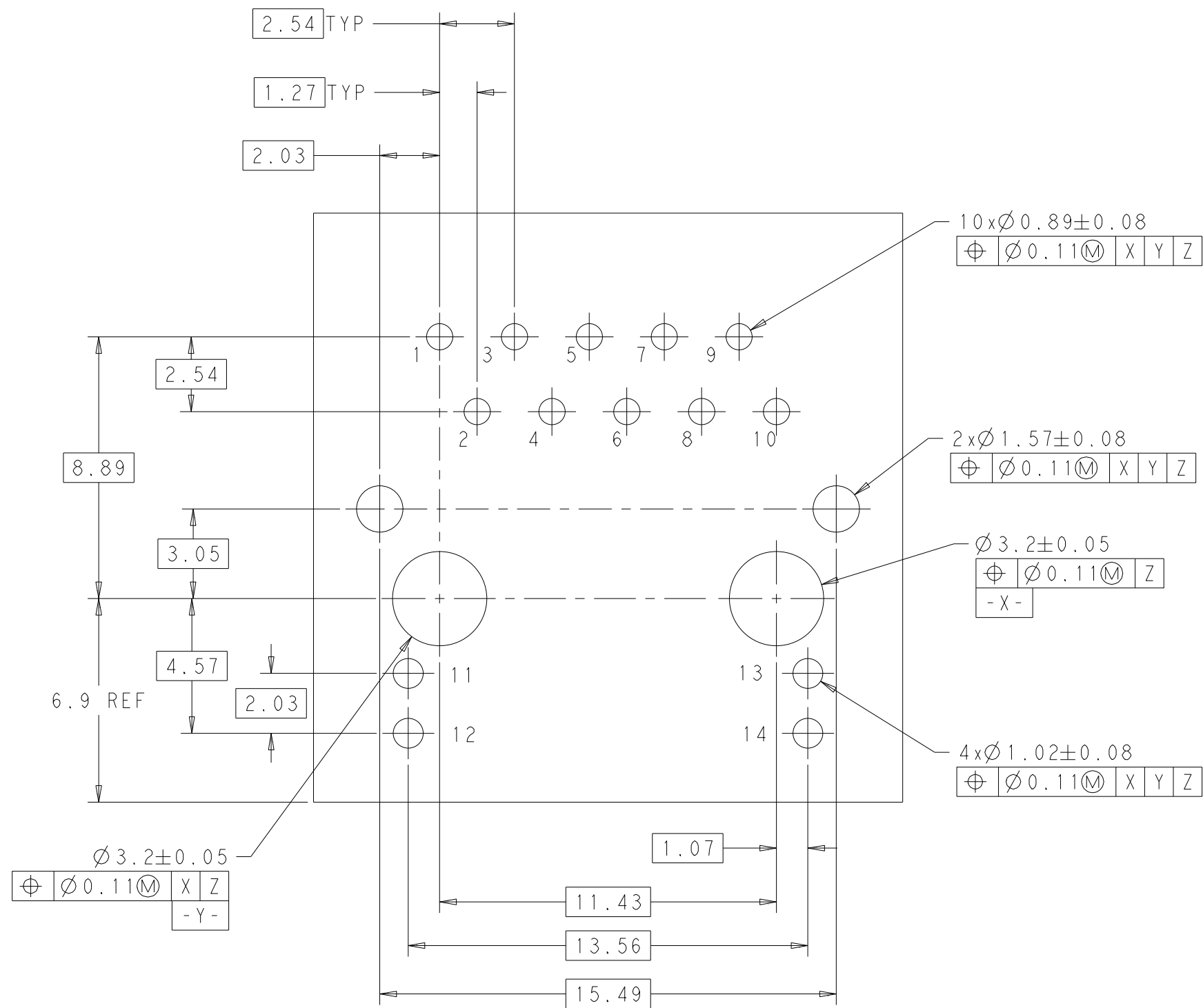
1

OF

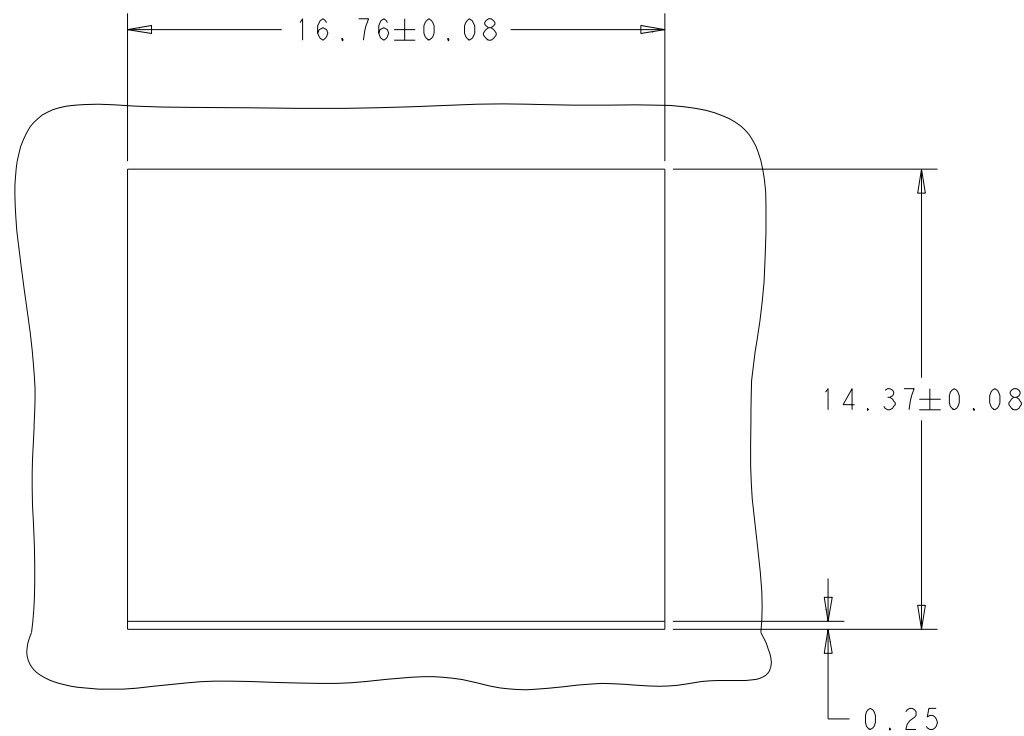
3

REV

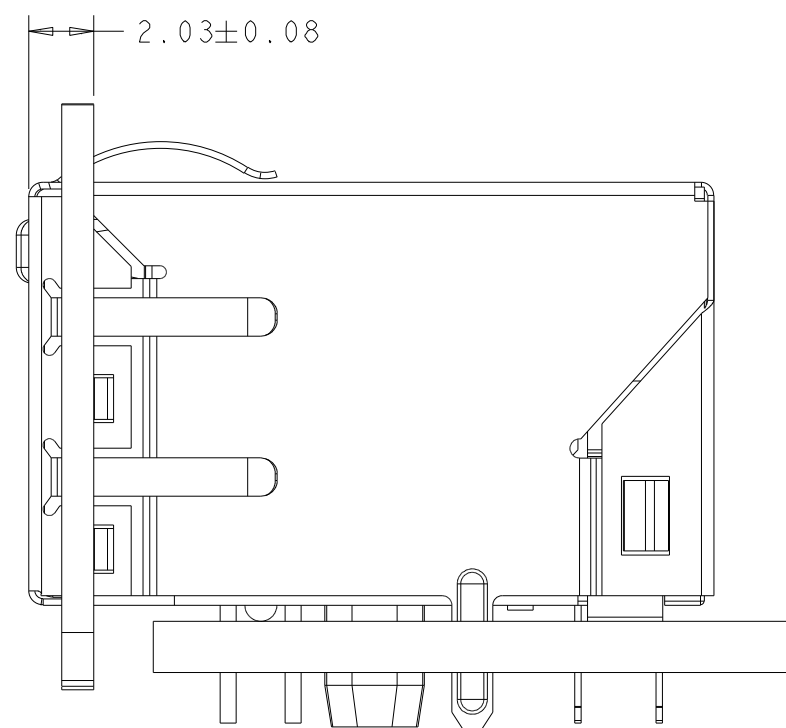
2



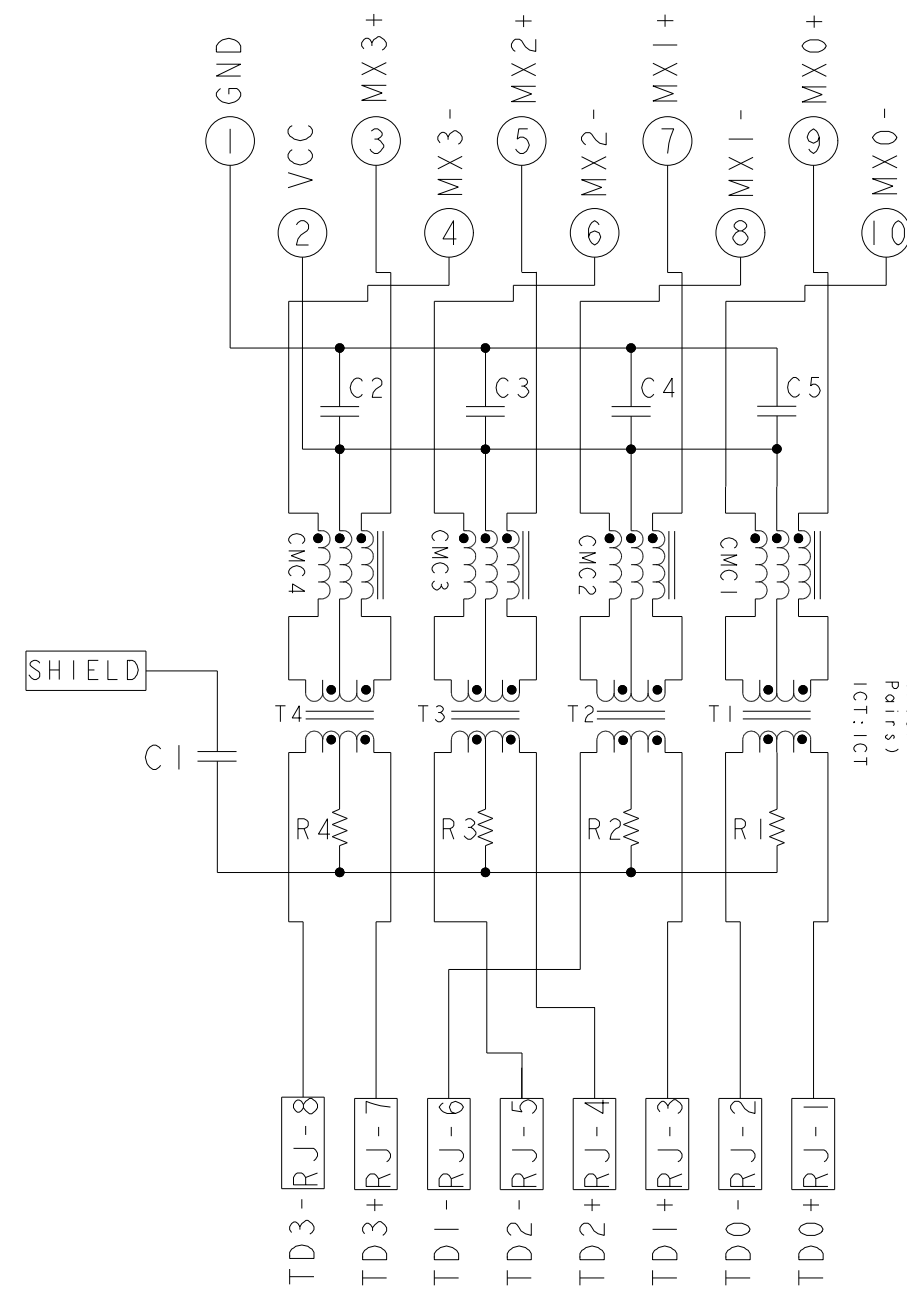
SUGGESTED CUSTOMER BOARD LAYOUT
(COMPONENT SIDE)



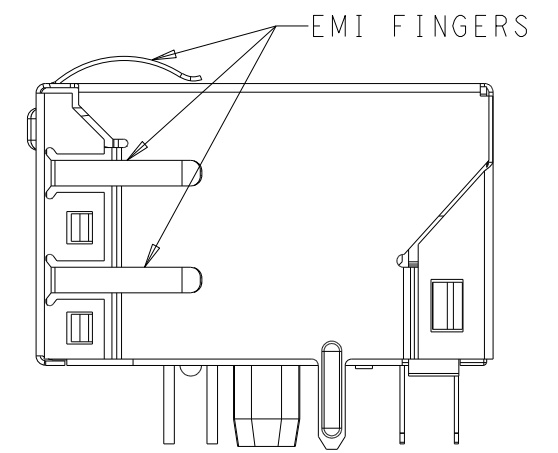
SUGGESTED CUT PANEL AND PCB



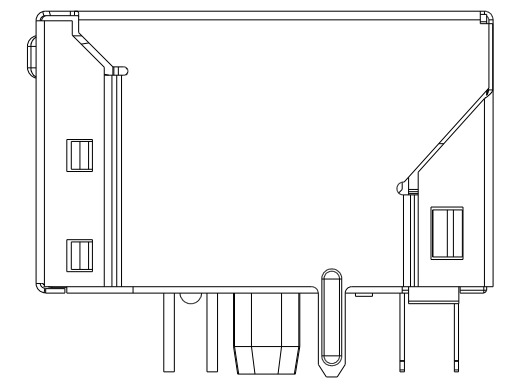
7G140 GIGABIT CIRCUIT



C1=1000pF, 2KV, CAPACITANCE
C2 - C5 : 0.1uF, CAPACITORS
R1 - R4 : 75 Ohms, RESISTORS



SCALE 4:1
FOR 2250013-1 2250013-2 2250013-3
2250013-4 2250013-5 2250013-6
2250013-7 2250013-8 2250013-9



THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU 13MAY2013	 trp CONNECTOR a bel group	DONGGUAN CHINA	
DIMENSIONS:		CHK TOWER YU/ FRANK LIU 13MAY2013			
mm		APVD TONY YUAN 13MAY2013			
PRODUCT SPEC		MODEL NAME MAGJACK SINGLE NON-POE			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		0 PLC 1 PLC 2 PLC 3 PLC 4 PLC ANGLES APPLICATION SPEC	DESC IXI 7G140 GIGABIT TAB UP W/ LED	SIZE A1	RESTRICTED TO -
CUSTOMER DRAWING		SCALE 3:1	DRAWING NO C=2250013	SHEET 2 OF 3	REV 2

C_2250013					STOCK DISPOSITION			
1X1 7G140 GIGABIT TAB UP W/ LED					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)
13MAY2013	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-
30DEC2014	2	EC-1411035 COMPANY LOGO CHANGE	MARKET REQUEST	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.

OWN
ROY LIU

13MAY2013

DIMENSIONS:

mm

0 PLC

1 PLC

2 PLC

3 PLC

4 PLC

ANGLES

±0.25

±0.25

±0.25

±0.25

±

±

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

±0.25

±0.25

±0.25

±0.25

±

±

APPLICATION SPEC

-

CHK
TOWER YU/ FRANK LIU

13MAY2013

APVD
TONY YUAN

13MAY2013

MODEL NAME

MAGJACK

DESC

1X1 7G140 GIGABIT TAB UP W/ LED

SIZE

A1

CAGE CODE

DRAWING NO

2250013

RESTRICTED TO

-

CUSTOMER DRAWING

SCALE 3:1

SHEET 3 OF 3

REV 2

 **trp** CONNECTOR

abel group

DONGGUAN CHINA