

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
7		EC-1411035 COMPANY LOGO CHANGE	26DEC2014	DP TY

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 2.54um MIN. MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

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.

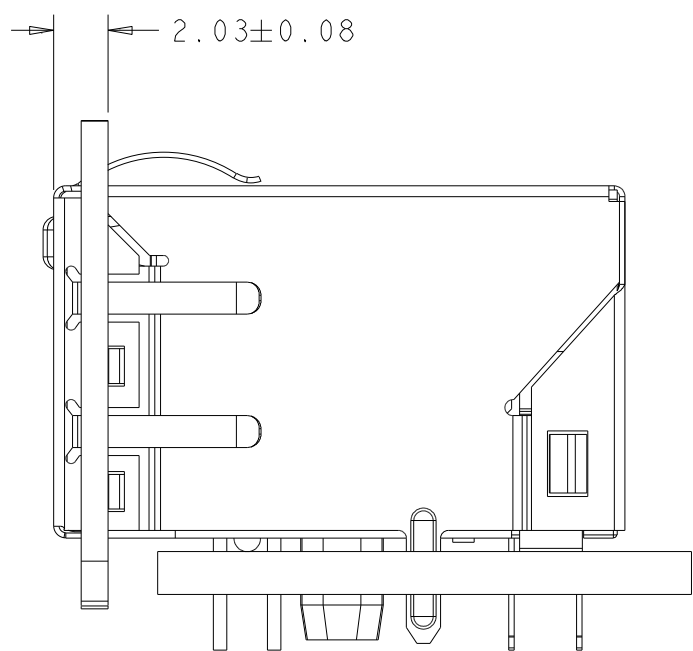
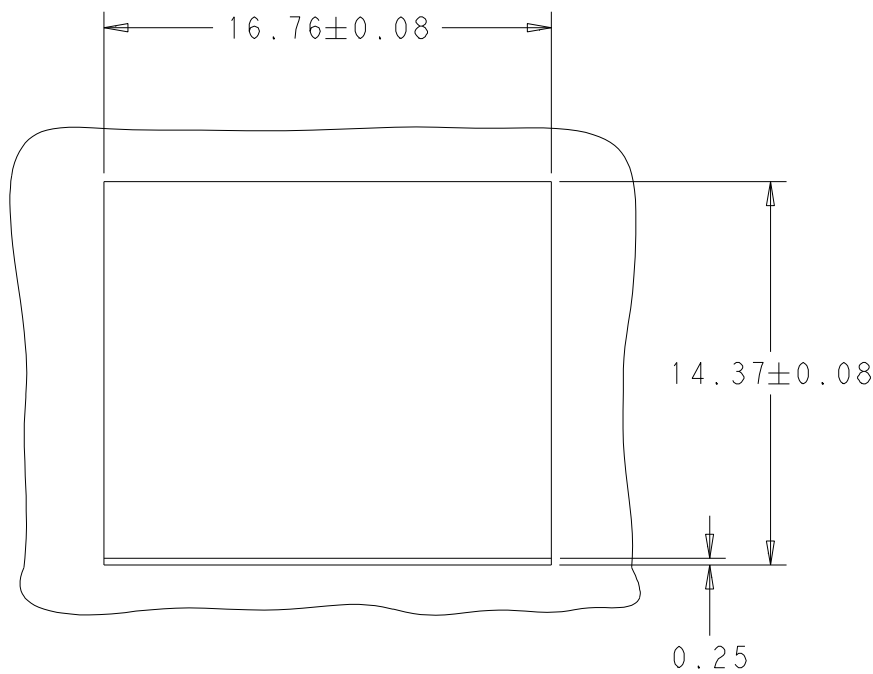
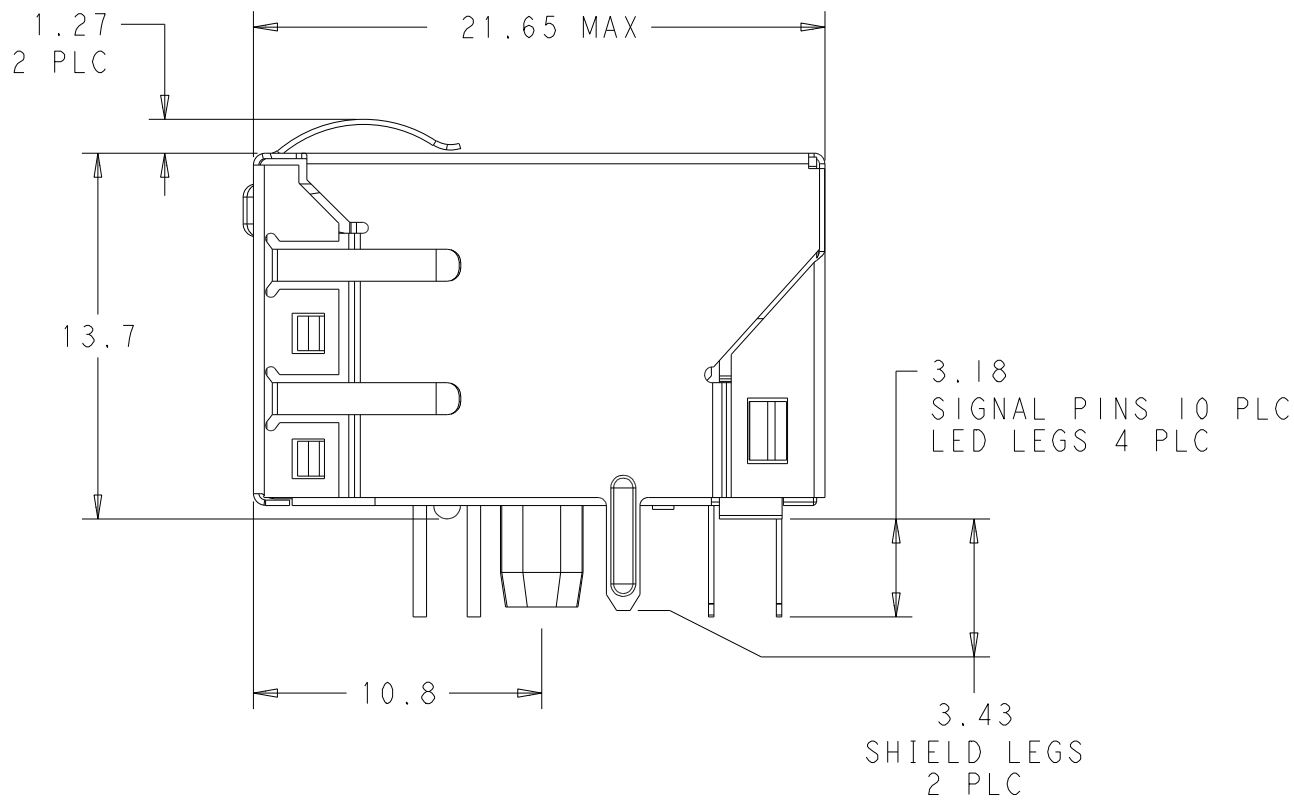
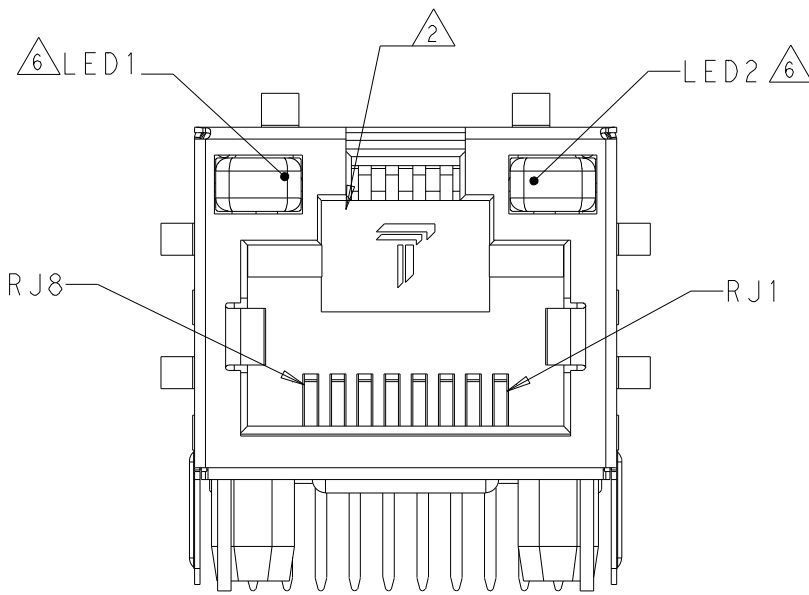
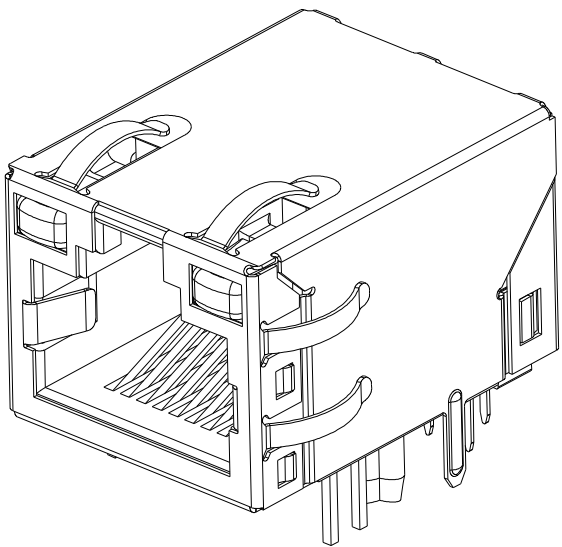
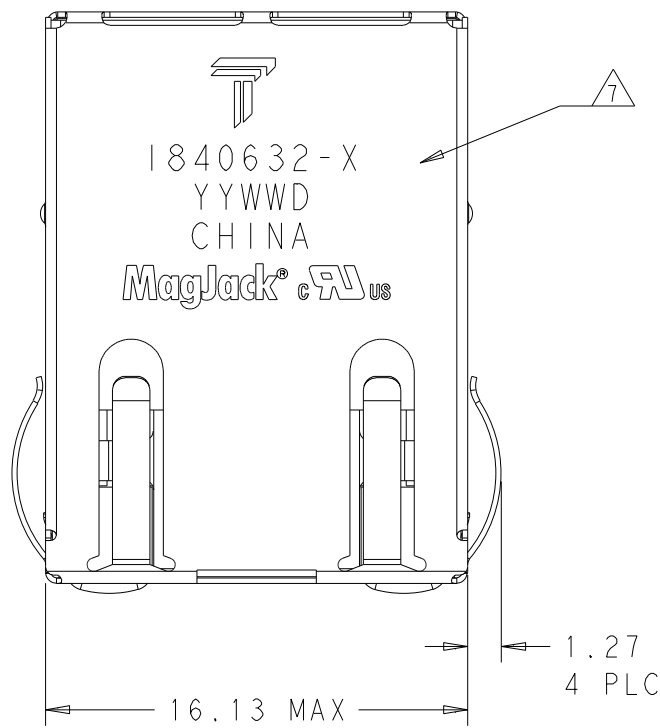
6. THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF RESISTORS.
IF LEDS WITHOUT 250 OHM RESISTORS. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
LED COLOR: DOMINATE WAVELENGTH (λD): GREEN 568 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF = 20mA
DOMINATE WAVELENGTH (λD): YELLOW 588 nm TYP. AT IF = 20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF = 20mA
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.

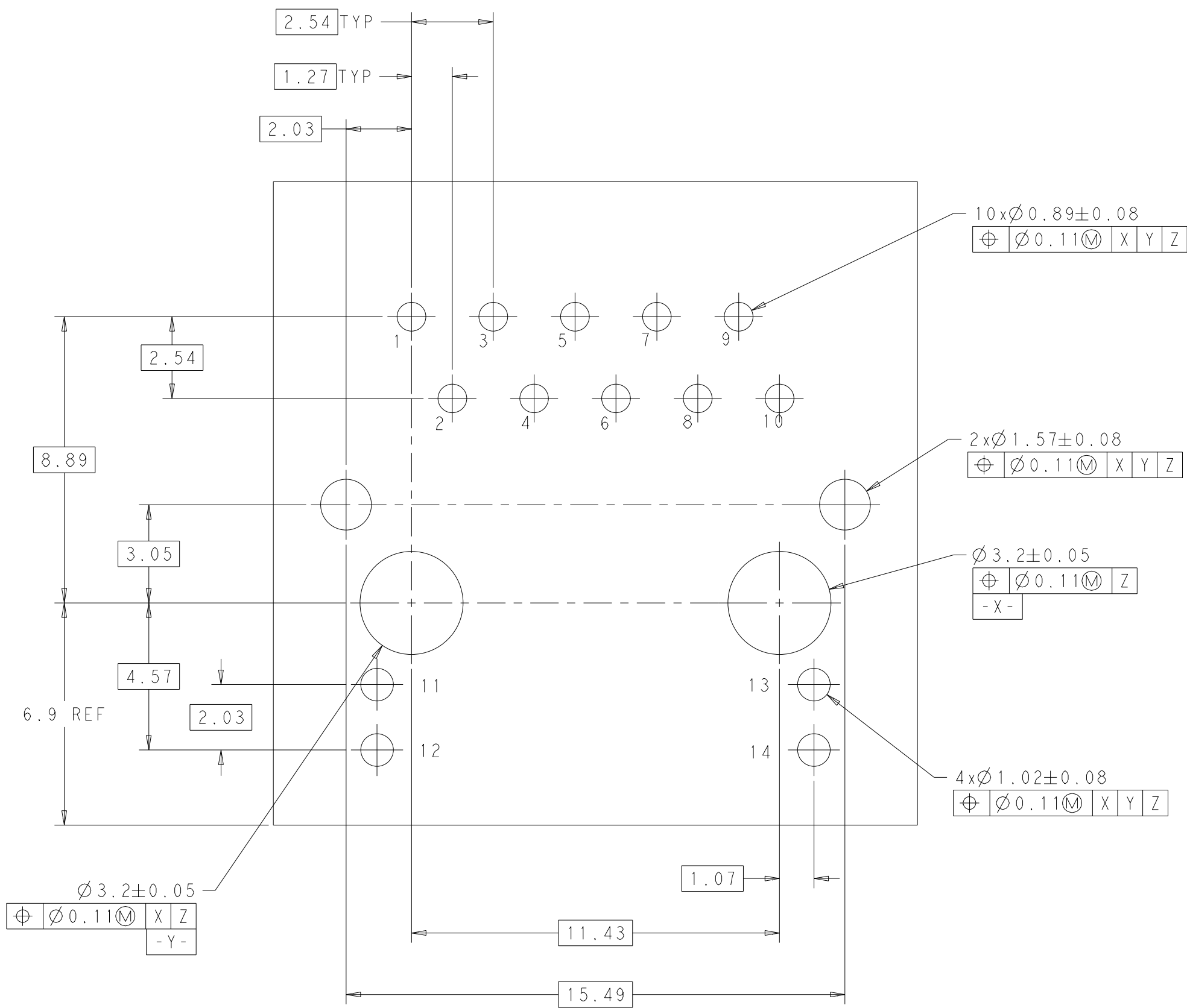
8. PART SHOULD BE RECOMMENDED FOR WAVE SOLDERING PROCESS,PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.

GREEN	-	NO	GREEN	-	NO	1840632-6
YELLOW	-	YES	GREEN	-	YES	1840632-5
YELLOW	-	NO	GREEN	-	NO	1840632-4
GREEN	-	YES	GREEN	-	YES	1840632-3
GREEN	-	NO	YELLOW	-	NO	1840632-2
GREEN	YELLOW	NO	GREEN	YELLOW	NO	1840632-1
11  12	12  11	250 OHMS RESISTOR 	13  14	14  13	250 OHMS RESISTOR 	PART NUMBER
LED 1			LED 2			

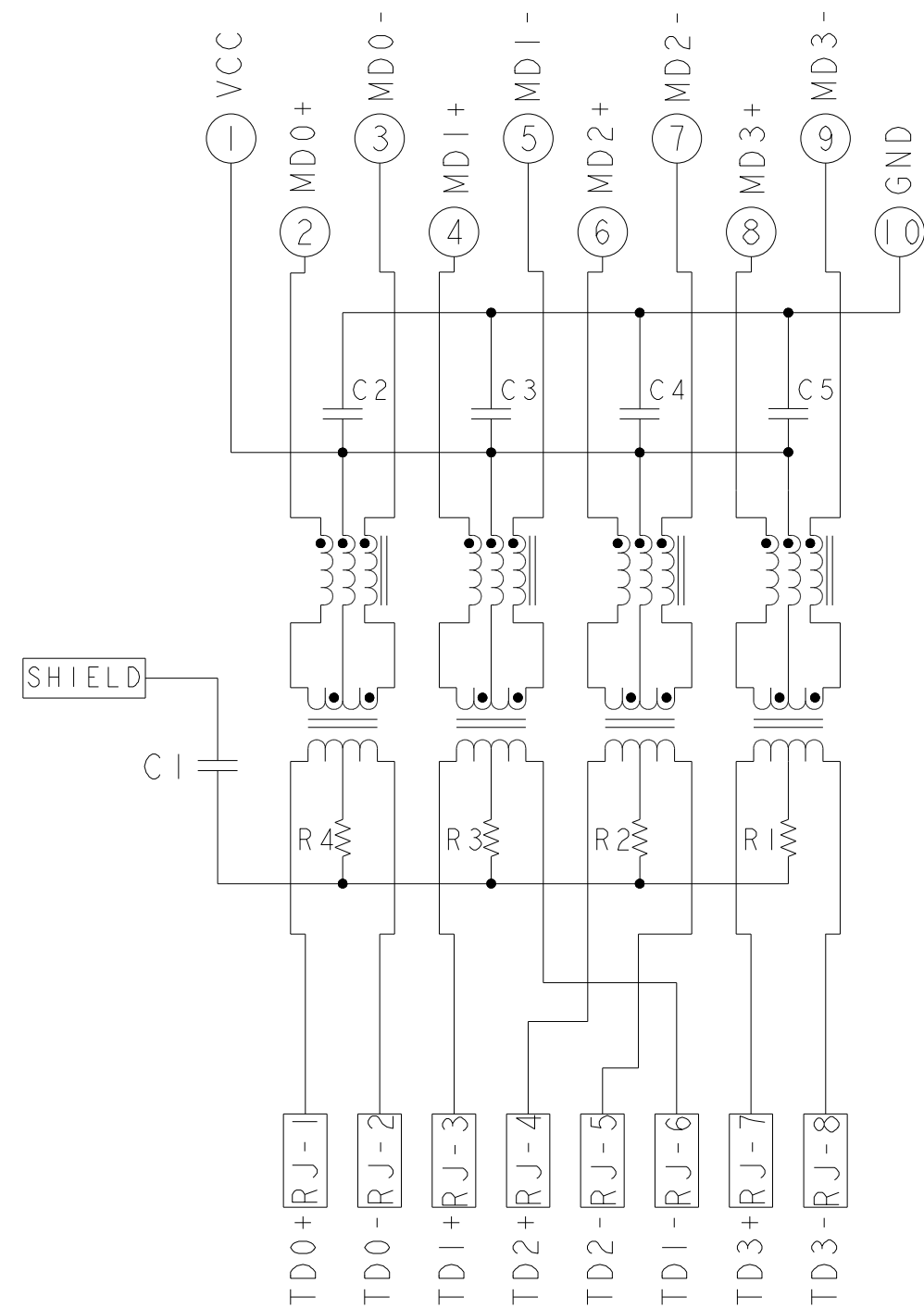
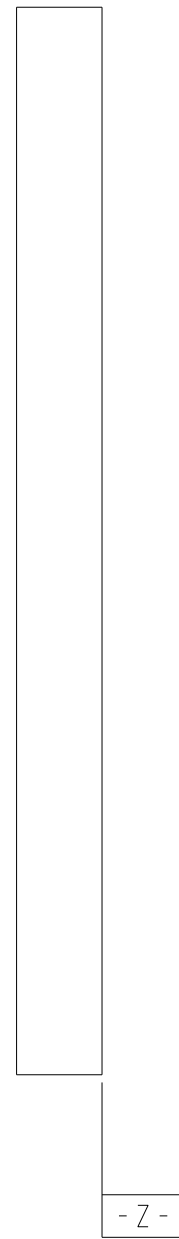
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN ROY LIU 07APR2012	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK TOWER YU/ FRANK LIU 07APR2012				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD KEITH ZHU 07APR2012				
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ±	MODEL NAME MAGJACK		DESC IX1 7G46PI GIGABIT TAB UP W/ LED	
PRODUCT SPEC		APPLICATION SPEC	SINGLE NON-PoE		RESTRICTED TO	
-		-	A1		C=1840632	
CUSTOMER DRAWING		SCALE 6:1		SHEET 1 OF 3		REV 7



SUGGESTED CUT PANEL AND PCB



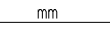
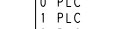
7G46PI GIGABIT CIRCUIT



C1=1000pF, CAPACITOR

R1-R4=75 Ohms, RESISTORS

C2-C5=0.1uF, CAPACITORS

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN ROY LIU 07APR2012		 trp CONNECTOR a bel group DONGGUAN CHINA	
DIMENSIONS:		CHK TOWER YU/ FRANK LIU 07APR2012			
mm		APVD KEITH ZHU 07APR2012			
		MODEL NAME MAGJACK			
PRODUCT SPEC		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DESC IXI 7G46PI GIGABIT TAB UP W/ LED	
		0 PLC ±0.25		SIZE A1	
		1 PLC ±0.25		CAGE CODE C=1840632	
		2 PLC ±0.25		DRAWING NO -	
		3 PLC ±0.25		RESTRICTED TO -	
4 PLC ±0.25		SINGLE NON-POE		SCALE 6:1	
ANGLES ±°		CUSTOMER DRAWING		SHEET 2 OF 3	
APPLICATION SPEC				REV 7	

D

D

C

B

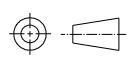
A

A

C_1840632					STOCK DISPOSITION			
1X1 7G46P1 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					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)
DATE	REV	CHANGES	REASON	APPROVAL				
07APR2012	1	INITIAL RELEASE	-	KEITH ZHU	-	-	-	-
22MAR2013	2	1, REFRESH CORPORATION LOGO; 2, ADD DASH NUMBER 1840632-2	PER CUSTOMER REQUIREMENT	TONY YUAN	-	-	-	-
04JUN2013	3	ADD DASH NUMBER 1840632-3	MARKET REQUIREMENT	TONY YUAN	-	-	-	-
09SEP2013	4	ADD DASH NUMBER 1840632-4	PER CUSTOMER REQUIREMENT	TONY YUAN	-	-	-	-
16SEP2013	5	ADD DASH NUMBER 1840632-5	MARKET REQUIREMENT	TONY YUAN	-	-	-	-
01AUG2014	6	ADD DASH NUMBER 1840632-6	MARKET REQUIREMENT	TONY YUAN	-	-	-	-
26DEC2014	7	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
07APR2012

CHK
TOWER YU/ FRANK LIU
07APR2012

APVD
KEITH ZHU
07APR2012

MODEL NAME

MAGJACK

SINGLE NON-POE

CUSTOMER DRAWING

 **trp** CONNECTOR
a bel group

DONGGUAN
CHINA

DESC

1X1 7G46P1 GIGABIT TAB UP W/ LED

SIZE

A1

CAGE CODE

DRAWING NO

1840632

RESTRICTED TO

-

SCALE

6:1

SHEET

3

OF

3

REV

7