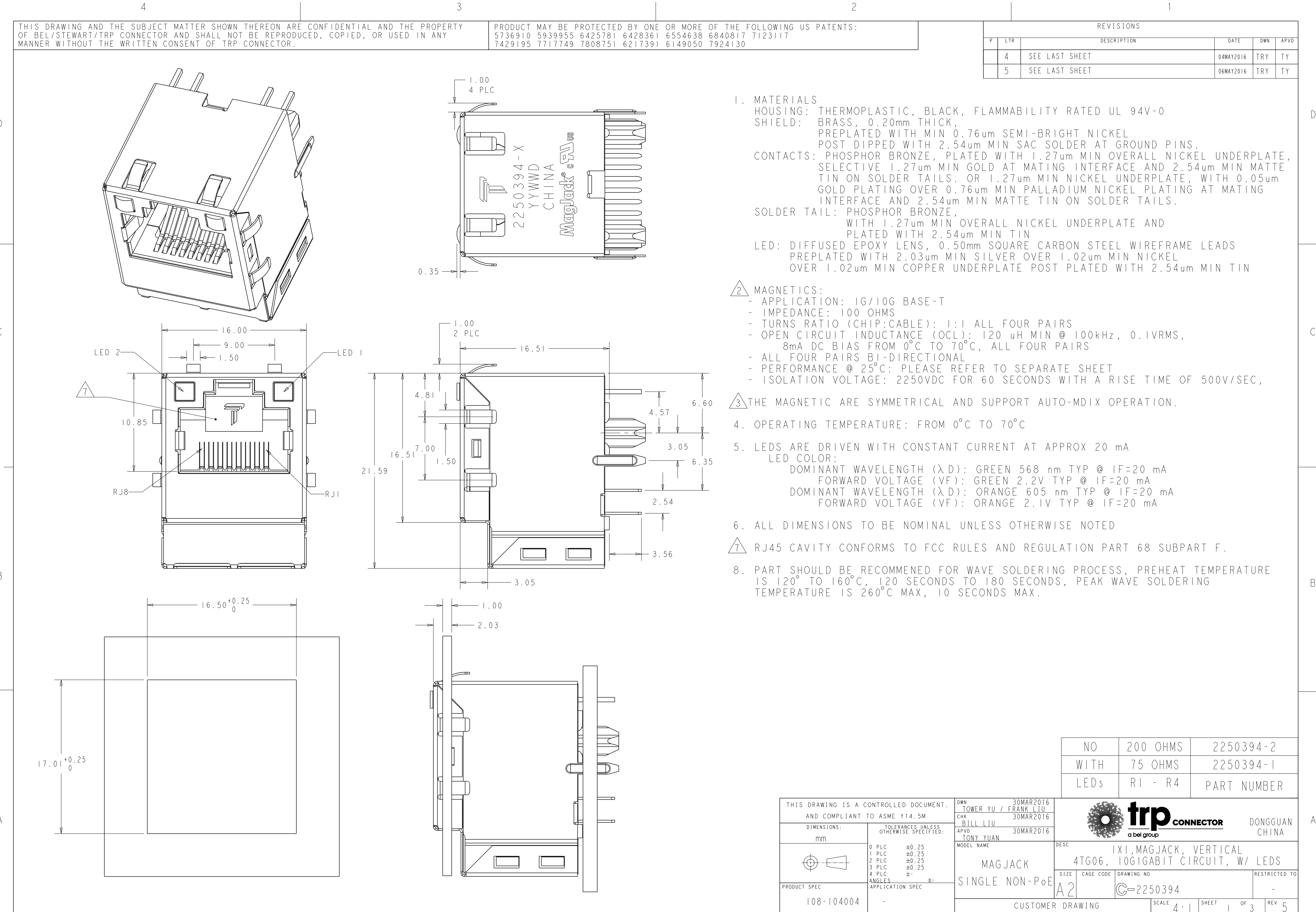




D

C

B

A

3

2

1

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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
4		SEE LAST SHEET	04MAY2016	TRY	TY
5		SEE LAST SHEET	06MAY2016	TRY	TY

1. MATERIALS

HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATED UL 94V-0
SHIELD: BRASS, 0.20mm THICK,
PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL
POST DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.
CONTACTS: PHOSPHOR BRONZE, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE,
SELECTIVE 1.27um MIN GOLD 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 TAIL: PHOSPHOR BRONZE,
WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
PLATED WITH 2.54um MIN TIN
LED: DIFFUSED EPOXY LENS, 0.50mm SQUARE CARBON STEEL WIREFRAME LEADS
PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL
OVER 1.02um MIN COPPER UNDERPLATE POST PLATED WITH 2.54um MIN TIN

2

MAGNETICS:

- APPLICATION: 1G/10G BASE-T
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 120 uH MIN @ 100kHz, 0.1VRMS,
8mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTIONAL
- PERFORMANCE @ 25°C: PLEASE REFER TO SEPARATE SHEET
- ISOLATION VOLTAGE: 2250VDC FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC,

3

THE MAGNETIC ARE SYMMETRICAL AND SUPPORT AUTO-MDIX OPERATION.

4.

OPERATING TEMPERATURE: FROM 0°C TO 70°C

5.

LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA

LED COLOR:

DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA
DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP @ IF=20 mA

6.

ALL DIMENSIONS TO BE NOMINAL UNLESS OTHERWISE NOTED

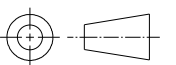
7

RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

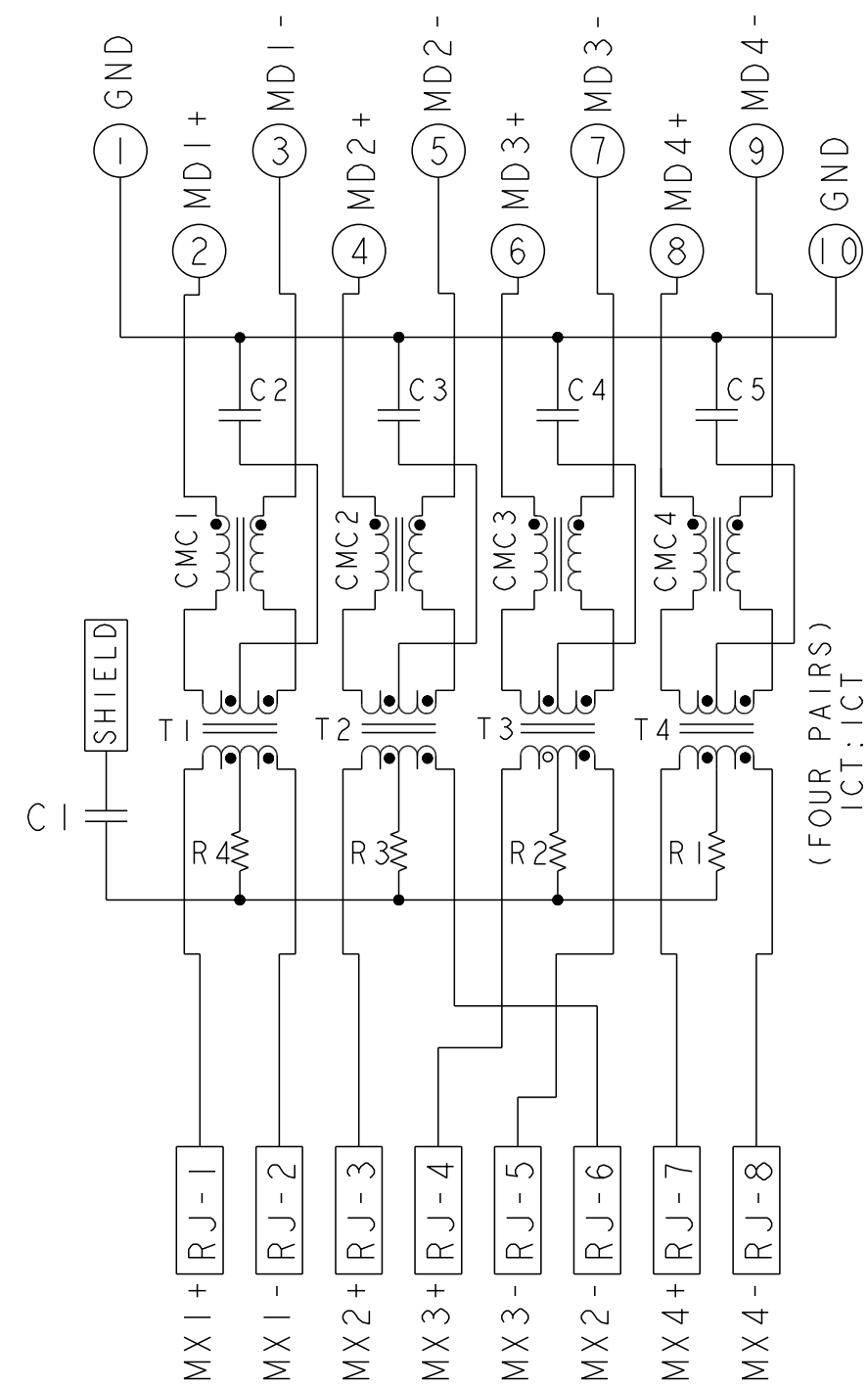
8.

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

NO	200 OHMS	2250394-2
WITH	75 OHMS	2250394-1
LEDs	R1 - R4	PART NUMBER

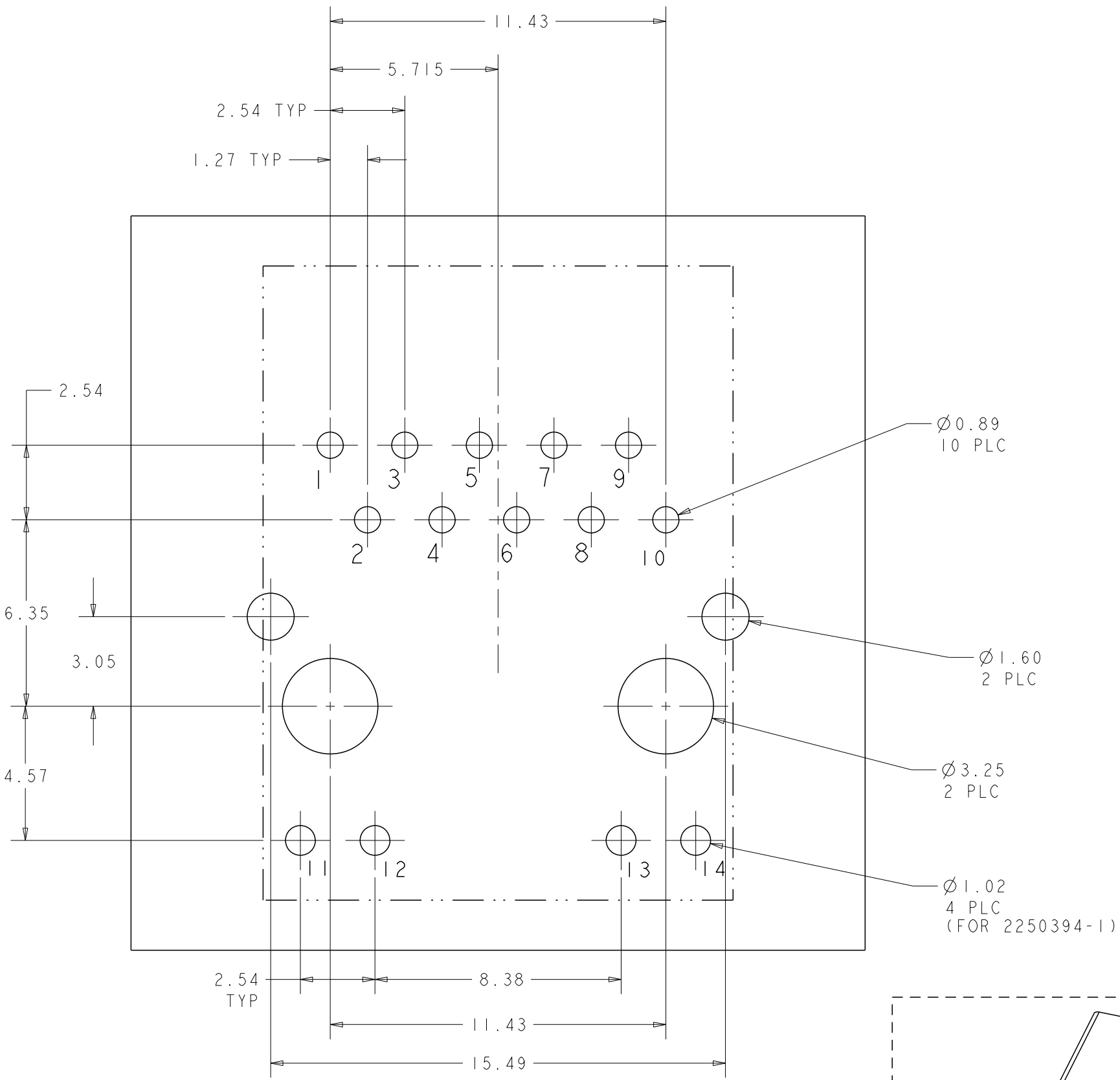
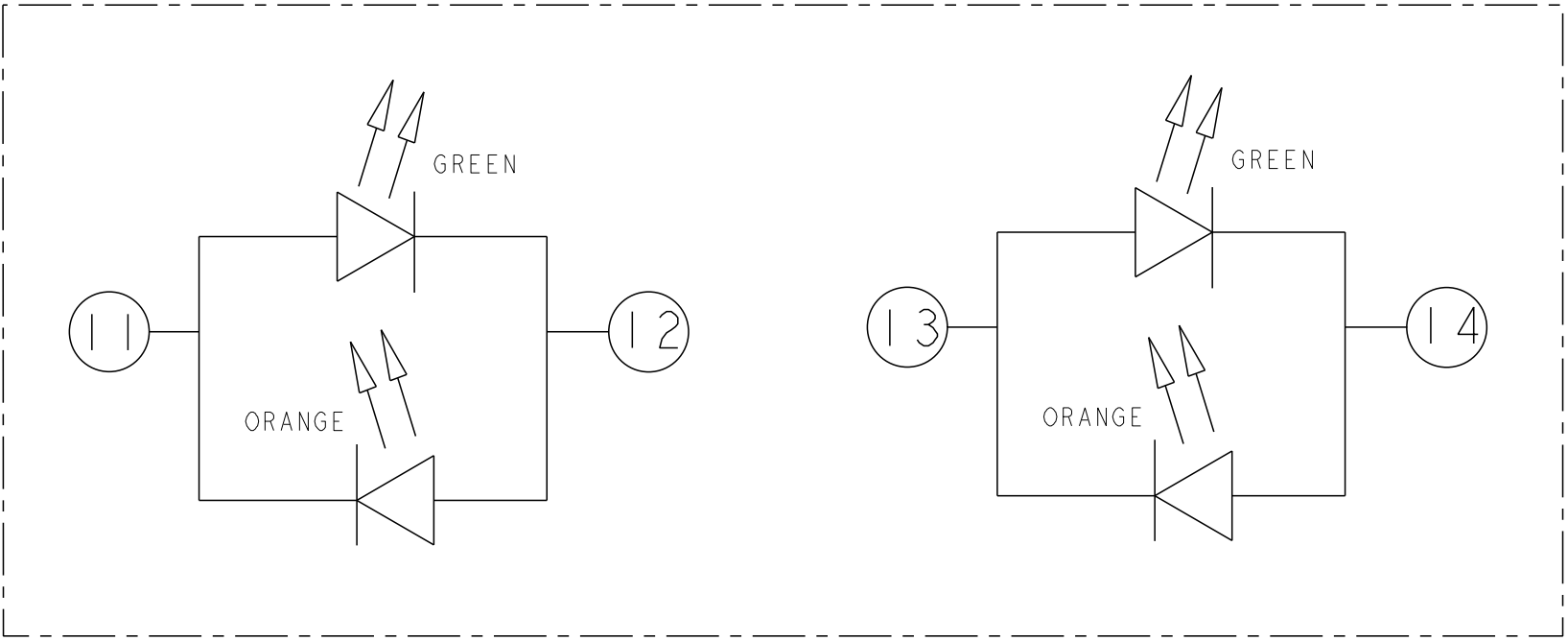
THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN TOWER YU / FRANK LIU 30MAR2016	 trp CONNECTOR a bel group		DONGGUAN CHINA		
DIMENSIONS: mm		CHK BILL LIU 30MAR2016					
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TONY YUAN 30MAR2016	DESC 1X1, MAGJACK, VERTICAL 4TG06, 10GIGABIT CIRCUIT, W/ LEDS				
		MODEL NAME MAGJACK SINGLE NON-POE					
0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±°		SIZE A2	CAGE CODE	DRAWING NO C-2250394	RESTRICTED TO -		
PRODUCT SPEC 108-104004		CUSTOMER DRAWING		SCALE 4:1	SHEET 1	OF 3	REV 5

4TG06 10G CIRCUIT

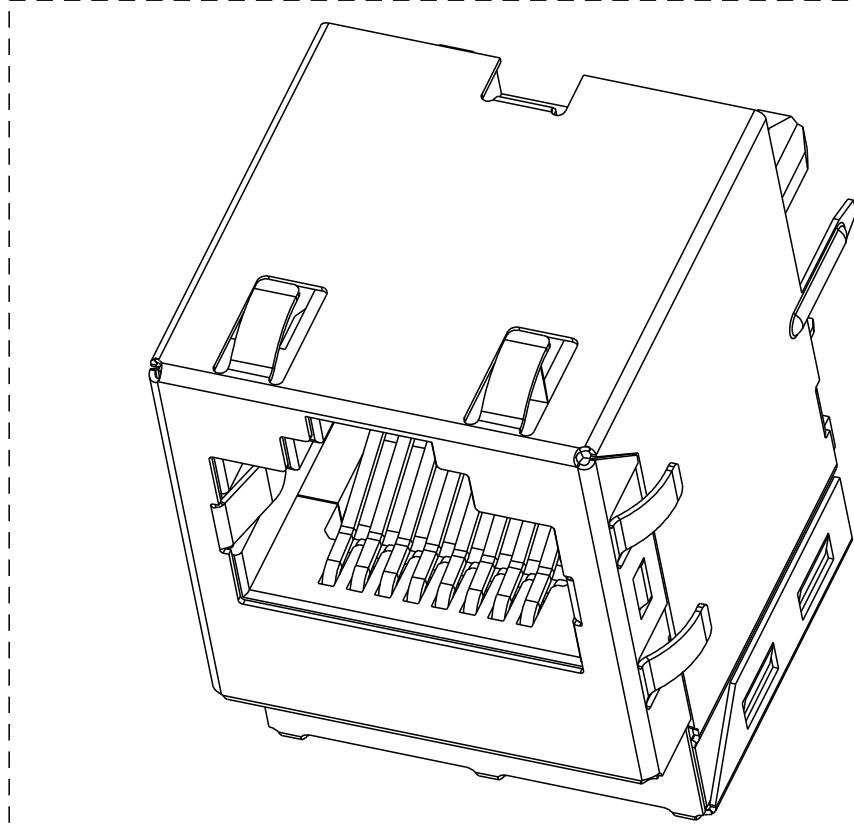


C2 - C5 = 0.1uF, 50V, CAPACITOR
C1 = 1000pF, 2KV, CAPACITOR
R1 - R4 = 75 ohms OR 200 ohms, RESISTOR

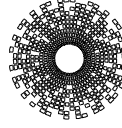
BI-COLOR LED
(2250394-1 ONLY)



SUGGESTED PCB LAYOUT (TOL: ±0.05)
(COMPONENT SIDE VIEW)



2250394-2

THIS DRAWING IS A CONTROLLED DOCUMENT. AND COMPLIANT TO ASME Y14.5M		DWN TOWER YU / FRANK LIU 30MAR2016	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK BILL LIU 30MAR2016				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TONY YUAN 30MAR2016	MODEL NAME		DESC IXI, MAGJACK, VERTICAL 4TG06, 10GIGABIT CIRCUIT, W/ LEDS	
PRODUCT SPEC 108-104004		MAGJACK SINGLE NON-POE		SIZE A2	CAGE CODE C-2250394	RESTRICTED TO -
APPLICATION SPEC -		CUSTOMER DRAWING		SCALE 4:1	SHEET 2 OF 3	REV 5

2250394_C					STOCK DISPOSITION			
					A: CONTINUE AS IS		D: USE OLD FIRST	
					B: REWORK		E: PARTS TO CONFORM	
REVISION HISTORY					C: SCRAP		F: OTHER	
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)
31MAR2016	1	-	INITIAL RELEASE	TONY YUAN	-	-	-	-
19APR2016	2	CHANGE SINGLE COLOR LED TO BI-COLOR LED ADD EMI FINGERS ON SHIELD	MARKET REQUEST	TONY YUAN	-	-	-	-
25APR2016	3	ADD DIMENSIONS FOR EMI FINGERS AND RJ45 CAVITY ADD SOLDERING PROCESS CORRECT PIN 1 FROM VCC TO GND	MARKET REQUEST	TONY YUAN	-	-	-	-
04MAY2016	4	ADD DASH NUMBER -2 FOR DIFFERENT RESISTORS	MARKET REQUEST	TONY YUAN	-	-	-	-
06MAY2016	5	REMOVE LEDS FROM 2250394-2	MARKET REQUEST	TONY YUAN	-	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.
AND COMPLIANT TO ASME Y14.5M

DIMENSIONS:

mm

PRODUCT SPEC

108-104004

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

-

DWN
TOWER YU / FRANK LIU
CHK
BILL LIU
APVD
TONY YUAN
MODEL NAME

MAGJACK
SINGLE NON-POE

CUSTOMER DRAWING

30MAR2016
30MAR2016
30MAR2016

DESC
IXI, MAGJACK, VERTICAL
4TG06, 10GIGABIT CIRCUIT, W/ LEDS

SIZE
A2

CAGE CODE

DRAWING NO
C-2250394

RESTRICTED TO
-

SCALE
4:1

SHEET
3

OF
3

REV
5

trpCONNECTOR

a bel group

DONGGUAN
CHINA

XXXXX

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[GMX-SMT4-N-88](#) [GSGX-N-2-88](#) [GSGX-N-4-88](#) [GSX-NS2-88-3.05](#) [GSX-NS-88-3.68](#) [PT-108A-8C-UL](#) [PTS-J531-8CS-50UL](#) [A-2014-0-4](#)
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