



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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
	C	LOGO CHANGE	25APR2013	TY	KZ
	D	EC-1411035 COMPANY LOGO CHANGE	13JAN2015	TYR	TYN

1. MATERIALS:

- HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
- SHIELD: 0.25mm THICK, BRASS PREPLATED WITH 0.76 um MIN SEMI-BRIGHT NICKEL;
- CONTACT TAILS: 0.20mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, 3 um MIN TIN PLATE
- MOD JACK CONTACTS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, WITH 1.27 um MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
- LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, CARBON STEEL WIREFRAME PREPLATED WITH 2.03 um SILVER PLATE OVER 1.02 um NICKEL OVER 1.02 um COPPER UNDERPLATES; LEADS POST-PLATED WITH 3.05 um TIN.

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  $\Omega$
- TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 350 uH 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 (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC

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

5. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA

LED COLOR: DOMINANT WAVELENGTH ( $\lambda$ D): GREEN 568 nm TYP @ IF=20 mA

FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA

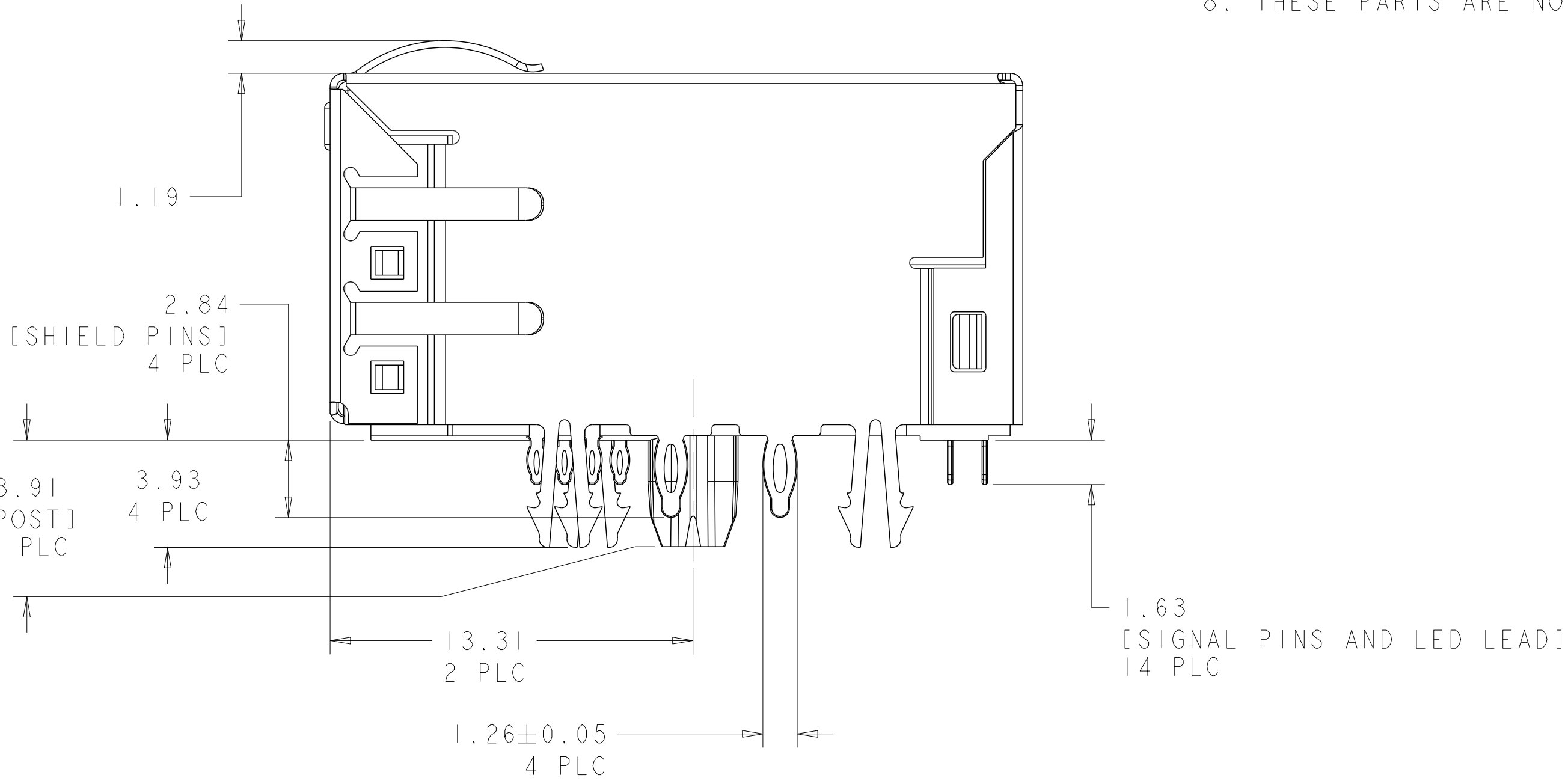
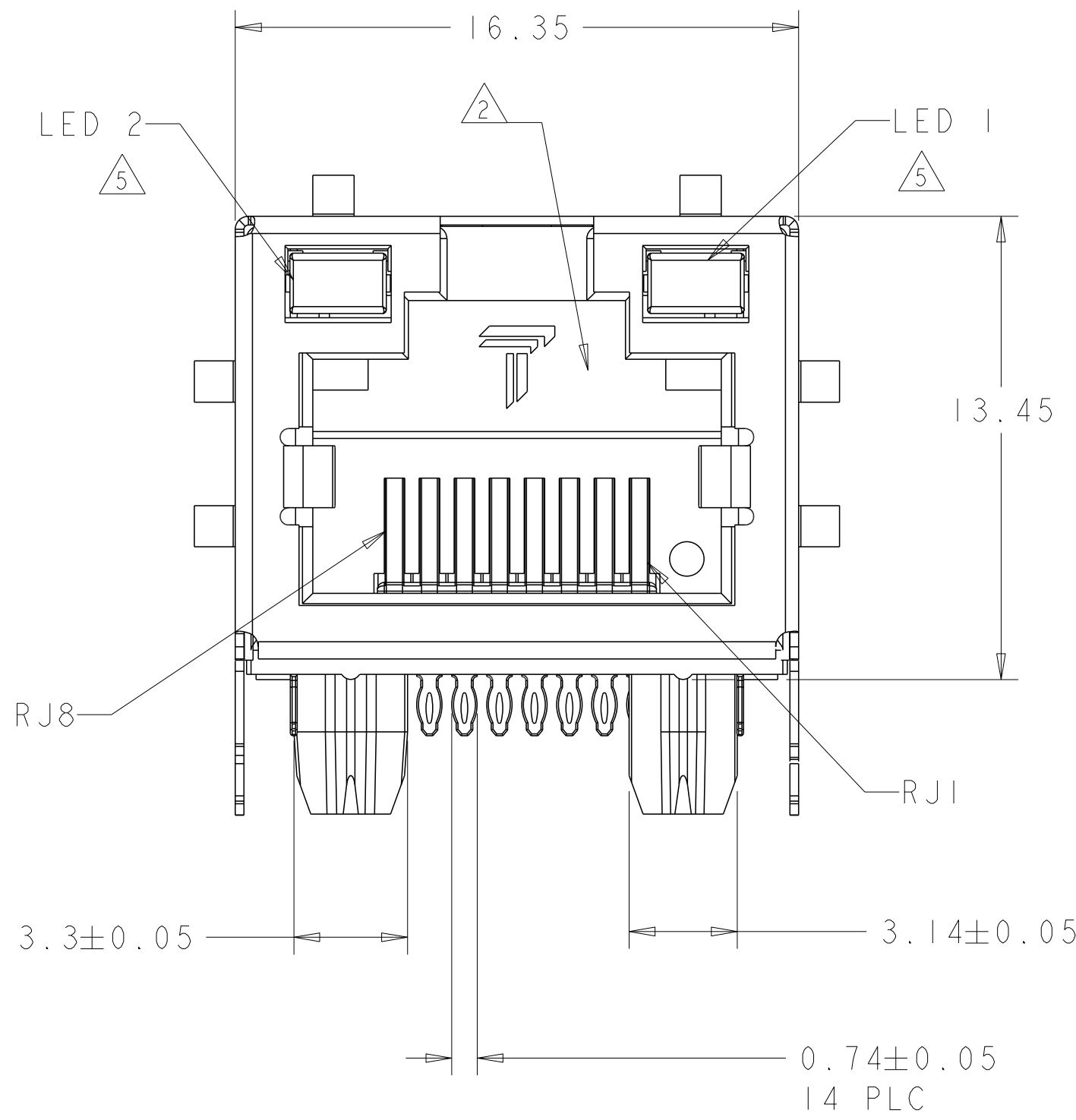
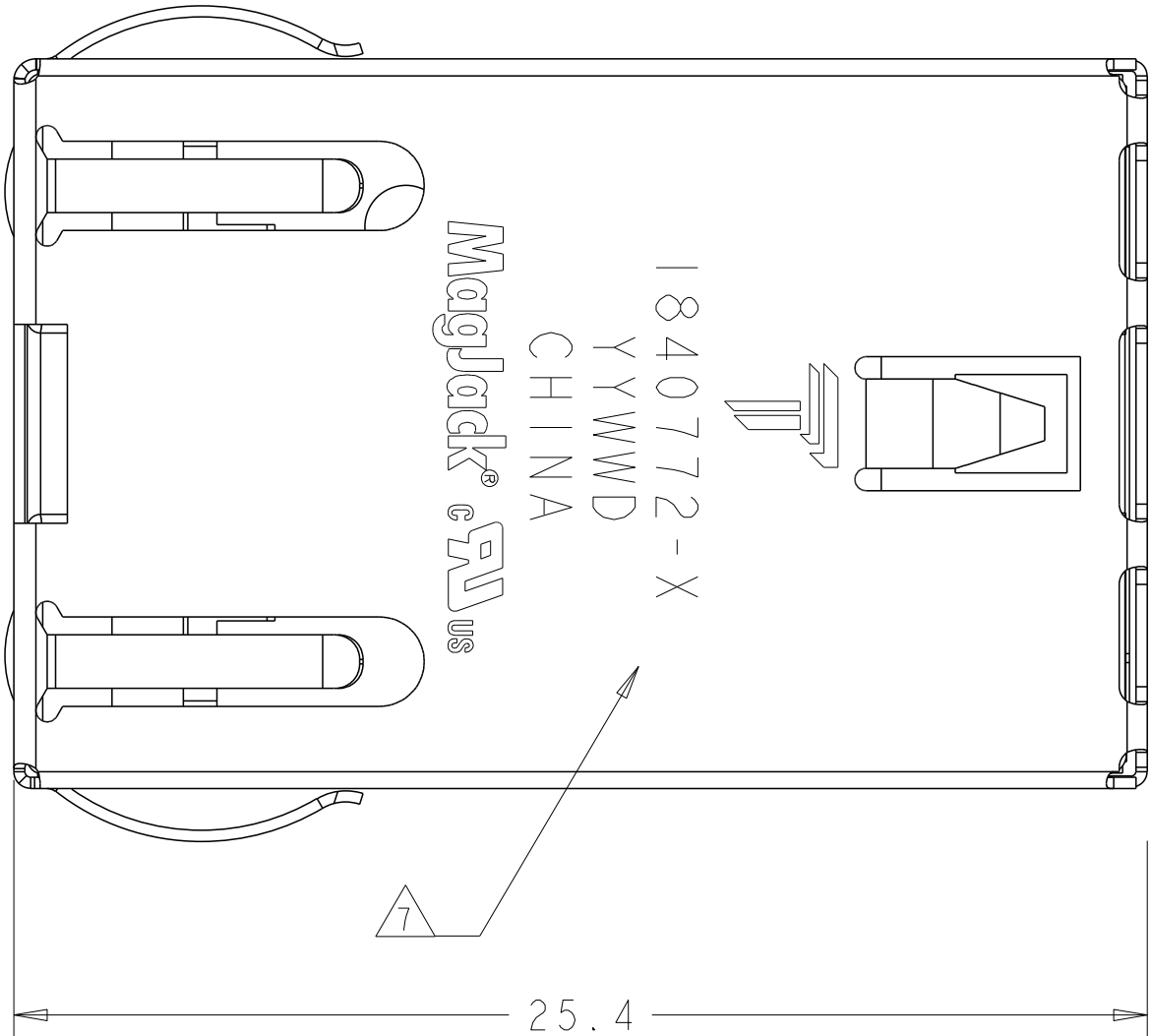
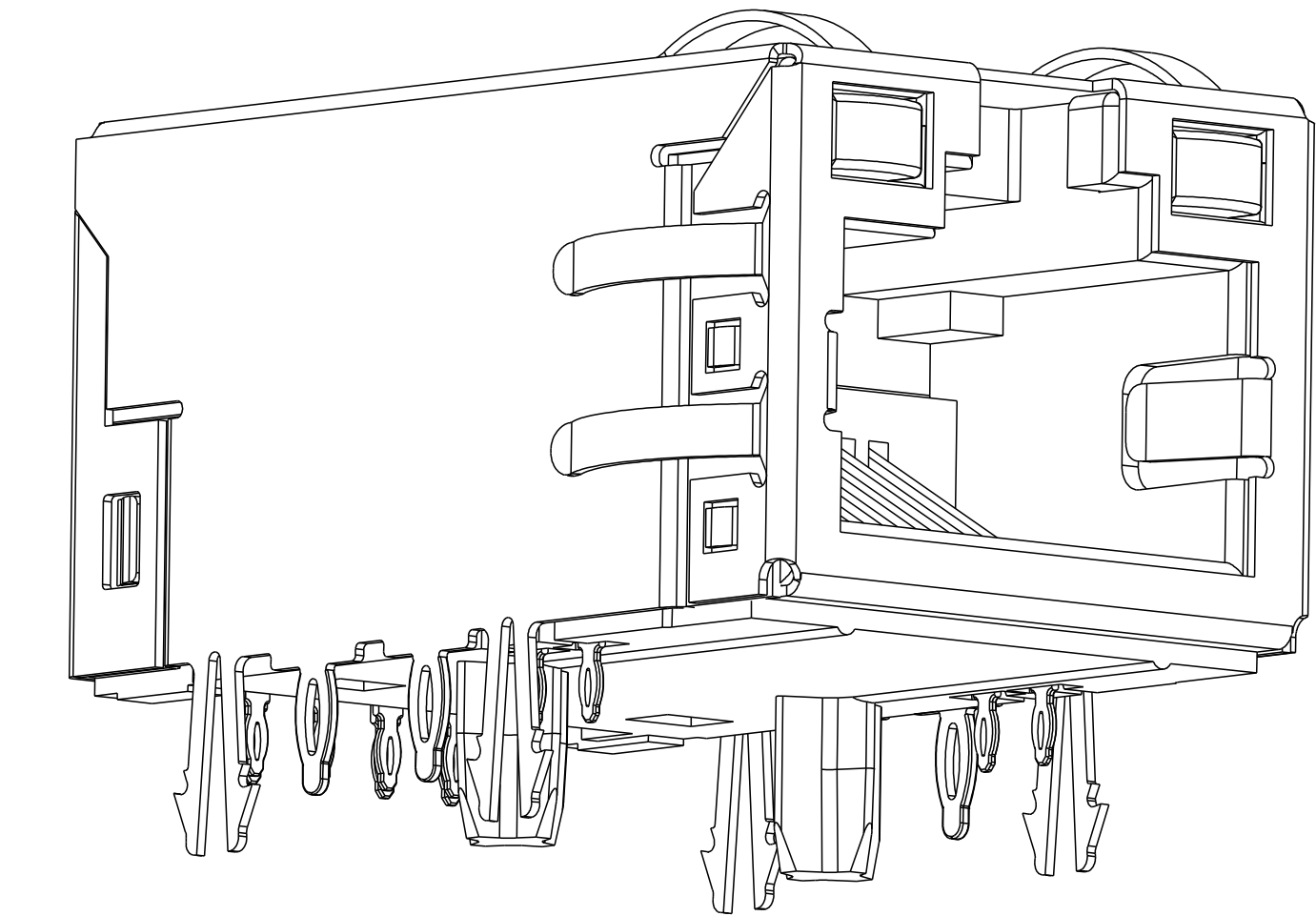
LED COLOR: DOMINANT WAVELENGTH ( $\lambda$ D): YELLOW 588 nm TYP @ IF=20 mA

FORWARD VOLTAGE (VF): YELLOW 2.1V TYP @ IF=20 mA


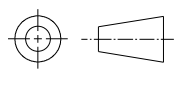
6. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

7. TRADEMARK,PART NUMBER (DETAILED PART NUMBER REFER TO PART LIST), DATE CODE, COUNTRY OF ORIGIN, AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN

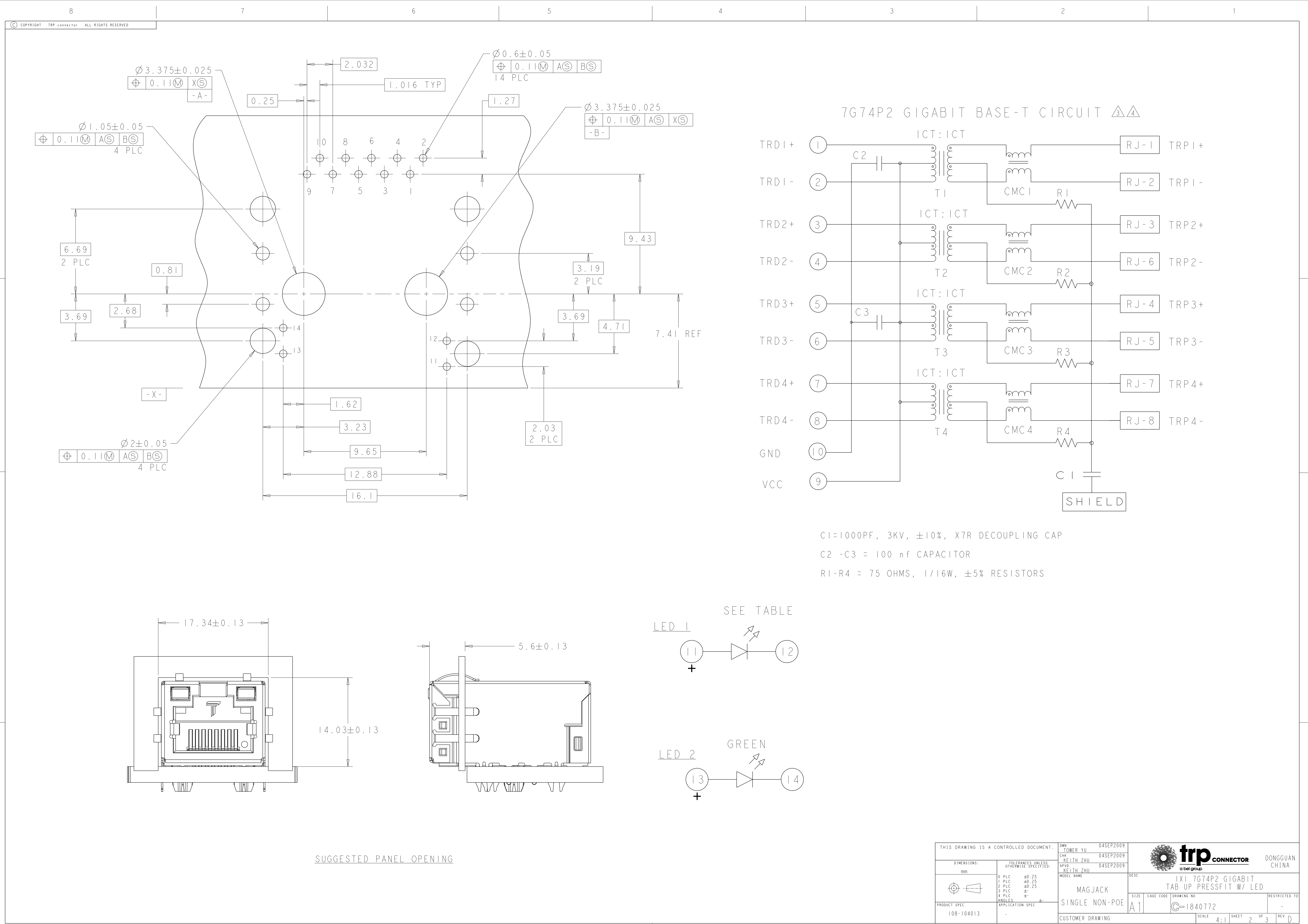
8. THESE PARTS ARE NOT DESIGNED FOR WAVE OR REFLOW SOLDERING APPLICATION

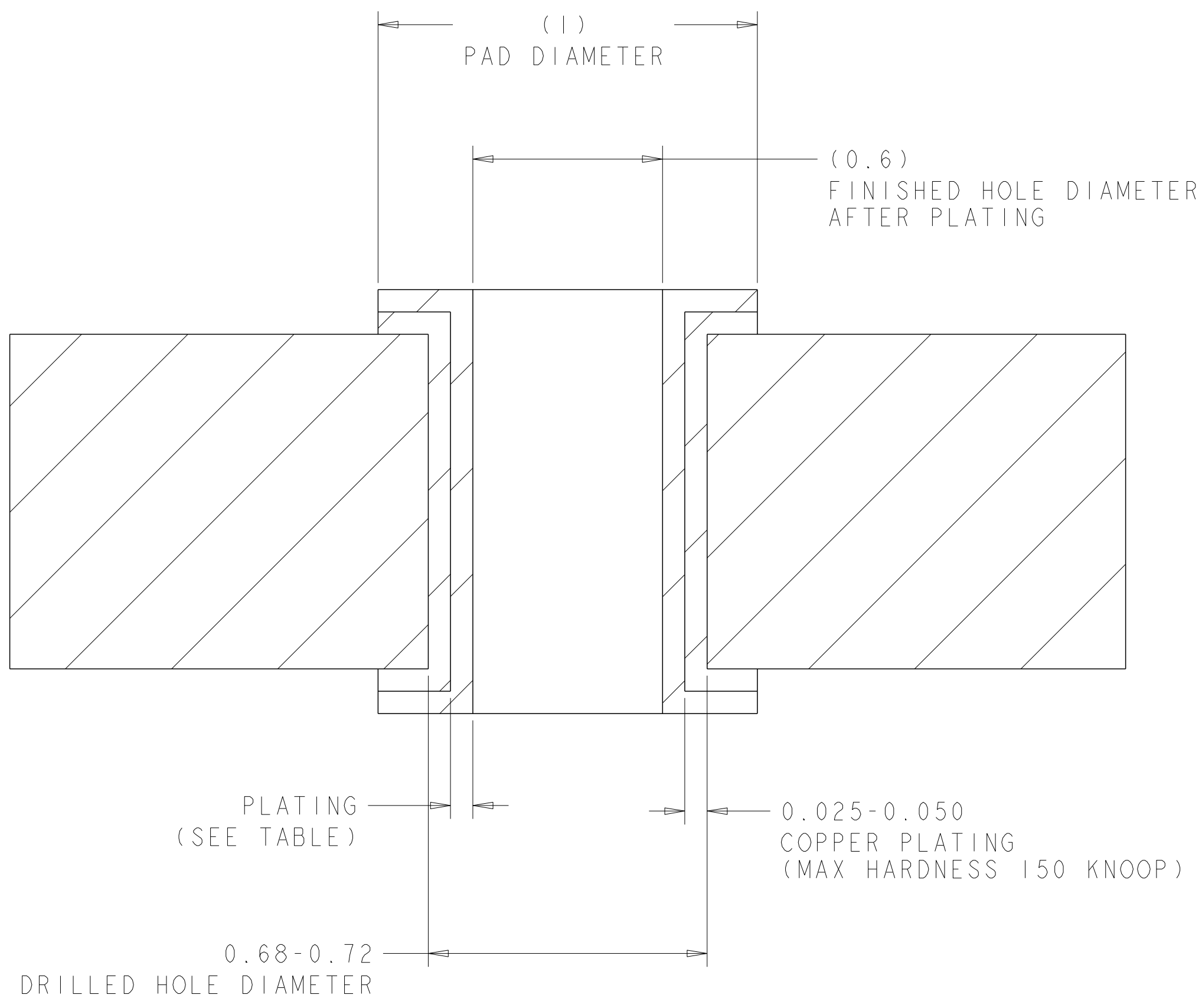


YELLOW	1840772-8
GREEN	1840772-7
LED 1	PART NO.

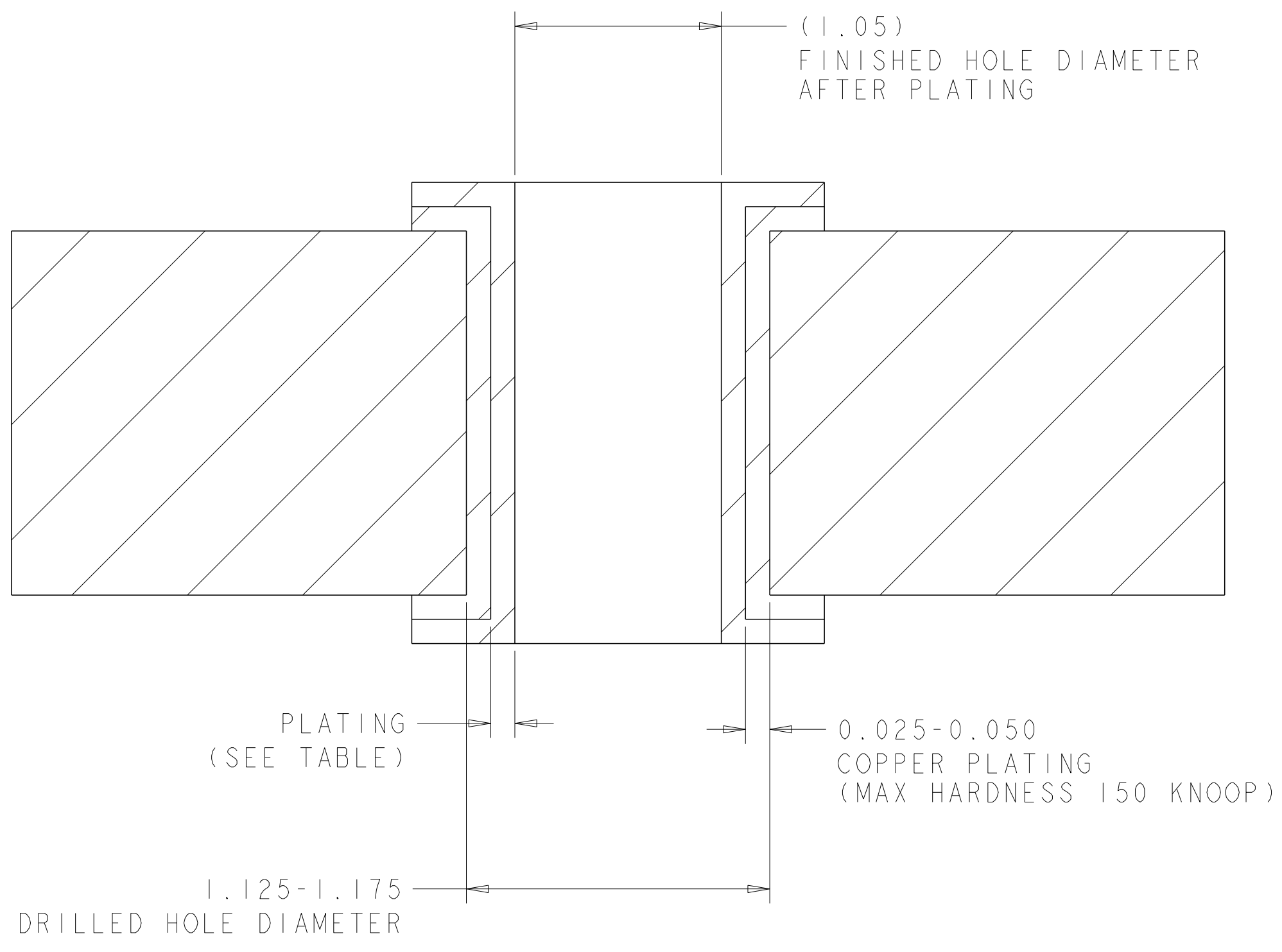
THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN TOWER YU	04SEP2009	 <b>trp</b> CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS:			CHK KEITH ZHU	04SEP2009				
mm			APVD KEITH ZHU	04SEP2009				
		TOLERANCES UNLESS OTHERWISE SPECIFIED:			MODEL NAME		DESC	
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RECOMMENDED HOLE DIMENSIONS  
FOR SIGNAL CONTACTS



RECOMMENDED HOLE DIMENSIONS  
FOR SHIELD CONTACTS

THICKNESS	PLATING
0.004-0.010	HOT AIR SOLDER LEVELING (HASL) TIN-LEAD (Sn Pb)
0.0005-0.001	IMMERSION TIN (Sn)
0.0002-0.0005	ORGANIC SOLDERABILITY PRESERVATIVE (OSP)
0.0001-0.0005 Au, 0.004-0.0076 Ni	IMMERSION GOLD (Au) OVER NICKEL (Ni) (ENIG)
0.010-0.025	TIN LEAD PLATING (Sn Pb)
0.0001-0.00015	IMMERSION SILVER (Ag)

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm

PRODUCT SPEC  
108-104013

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.25

1 PLC ±0.25

2 PLC ±0.25

3 PLC ±

4 PLC ±

ANGLES

APPLICATION SPEC

-

DWN TOWER YU 04SEP2009

CHK KEITH ZHU 04SEP2009

APVD KEITH ZHU 04SEP2009

MODEL NAME

MAGJACK

SINGLE NON-POE

CUSTOMER DRAWING

DESC

IXI 7G74P2 GIGABIT  
TAB UP PRESSFIT W/ LED

SIZE A 1

CAGE CODE

DRAWING NO C=1840772

RESTRICTED TO

-

SCALE 1:1

SHEET 3 OF 3

REV D

trp CONNECTOR  
a bel group

DONGGUAN  
CHINA