

PART NO.  
2TJ1597-010111H

LED OPTIONAL  
1: WITHOUT LED

SUFFIX: HALOGEN  
PACKAGE  
1: TRAY

HOUSING COLOR  
1: BLACK

CONTACT PLATING

1: 30u" Au PLATED ON CONTACT AREA  
TIN PLATED ON SOLDER AREA.  
NICKEL UNDERPLATED OVERALL

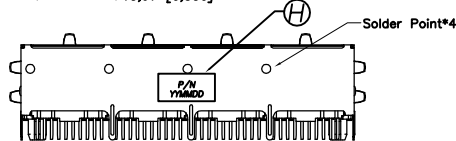
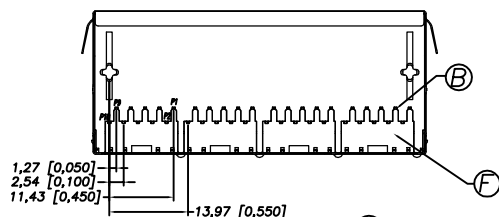
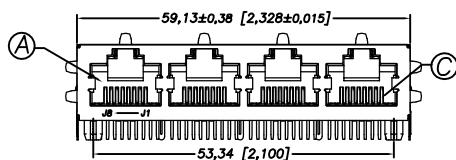
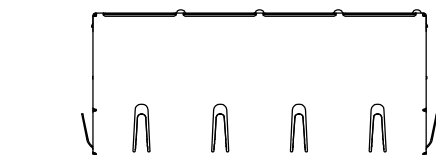
| REV. | ECN NO OR DESCRIPTION | REVISED | DATE       |
|------|-----------------------|---------|------------|
| A    | PDR RELEASE           | IVY-C   | 2014.09.09 |

SPECIFICATION:

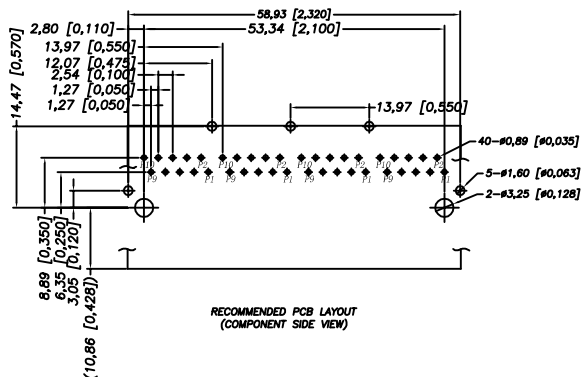
1. TO CONFORM TO SINGATRON HAZARDOUS SUBSTANCE FREE SPEC.
2. GREEN PRODUCT IDENTIFICATION LABEL ON PACKAGING: **G.P. PASS**
3. PACKAGE: SEE "2TJ1597 SERIES" PACKAGE.
4. FOR REFLOW SOLDERING LEAD-FREE PROCESS.
5. MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.
6. ELECTRICAL
  - INSULATION RESISTANCE : 500 MOHMS MIN
  - DIELECTRIC WITHSTANDING VOLTAGE : 1500 VAC FOR 1 MINUTE
7. DURABILITY TEST RATING
  - INSERTION FORCE WITH THE LATCH DEPRESSED :22N MAX
  - REMOVAL FORCE WITH THE LATCH DEPRESSED :44N MAX
  - DURABILITY :750 CYCLES
8. OPERATING AND STORAGE TEMPERATURE
  - OPERATING TEMPERATURE : 0°C TO +70°C
  - STORAGE TEMPERATURE : -40°C TO +85°C

ELECTRICAL CHARACTERISTICS :

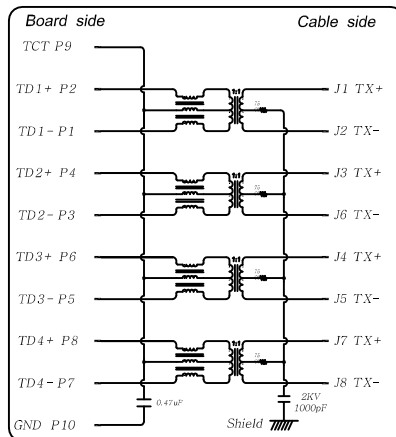
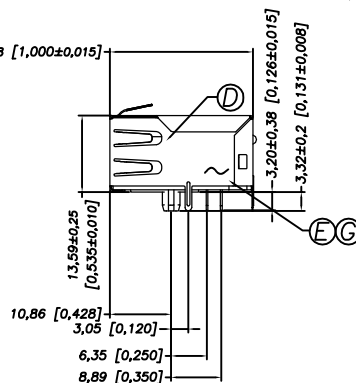
1. INSERTION LOSS :
  - 1~100 MHz -1.0dB MAX.
2. RETURN LOSS(LOAD 100Ω) :
  - 1~30 MHz -18dB MIN
  - 30~60 MHz -16dB MIN
  - 60~80 MHz -12dB MIN
  - 80~100 MHz -10dB MIN
3. COMMON MODE REJECTION
  - 1~100 MHz -30dB MIN
4. CROSS TALK
  - 1~100 MHz -30dB MIN
5. INDUCTANCE @ 100KHz, 0.1V, 8mA DC BIAS
  - (P1-P2),(P3-P4),(P5-P6),(P7-P8) : 350 uH MIN
6. DCR
  - (J1-J2),(J3-J6),(J4-J5),(J7-J8) : 1.2 Ohm MAX
7. HI-POT TEST
  - PCB SIDE TO CABLE SIDE : 1500VAC 60S OR 2250VDC 60S
8. TURNS RATION 100KHz
  - (P1-P2) : (J2-J1) = 1:1 ±5%
  - (P3-P4) : (J6-J3) = 1:1 ±5%
  - (P5-P6) : (J5-J4) = 1:1 ±5%
  - (P7-P8) : (J8-J7) = 1:1 ±5%
9. OTHER GENERAL SPEC. TO REFER "2TJ1597 SERIES SPEC".



Back View



RECOMMENDED PCB LAYOUT  
(COMPONENT SIDE VIEW)



|                                       |                |                                                                                       |                                              |                           |
|---------------------------------------|----------------|---------------------------------------------------------------------------------------|----------------------------------------------|---------------------------|
| H                                     | INK            |                                                                                       |                                              | BLACK COLOR               |
| G                                     | PCB            | 4                                                                                     |                                              |                           |
| F                                     | COVER          | 4                                                                                     | PA-10T UL 94V-0                              | BLACK COLOR               |
| E                                     | INSERT MOLD    | 4                                                                                     | LCP UL 94V-0                                 | BLACK COLOR               |
| D                                     | SHELL          | 1                                                                                     | STAINLESS                                    | TIN PLATED ON SOLDER AREA |
| C                                     | OUTPUT CONTACT | 32                                                                                    | COPPER ALLOY                                 | SEE PART NO.              |
| B                                     | INTPUT CONTACT | 40                                                                                    | COPPER ALLOY                                 | TIN PLATING               |
| A                                     | HOUSING        | 1                                                                                     | PA-10T UL 94V-0                              | BLACK COLOR               |
| NO                                    | DESCRIPTION    | QTY                                                                                   | MATERIAL                                     | PLATING & COLOR           |
| UNLESS OTHERWISE SPECIFIED TOLERANCES |                |  | Singatron Enterprise Co., Ltd.<br>信音企業股份有限公司 |                           |
| DECIMALS:    ANGLES:                  |                | TITLE                                                                                 | RJ45 1*4 w/ Transformer, w/o LED             |                           |
| X                                     | :±0.5          | X                                                                                     | :±2°                                         | DWN                       |
| X.X                                   | :±0.3          | X.X                                                                                   | :±1°                                         | MY-C 2014.09.09           |
| X.XX                                  | :±0.2          |                                                                                       |                                              | CHKD                      |
|                                       |                | APVD                                                                                  | SCALE:N/A                                    | UNIT: mm                  |
|                                       |                | SIZE: A3                                                                              | SHEET:1 OF 1                                 | REV: A                    |
| CUSTOMER COPY                         |                |                                                                                       |                                              |                           |