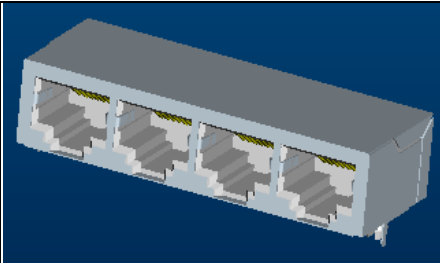
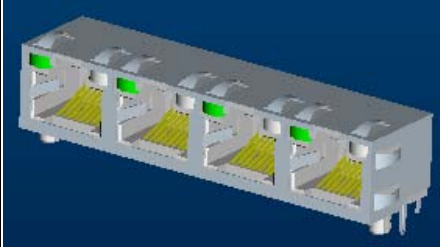
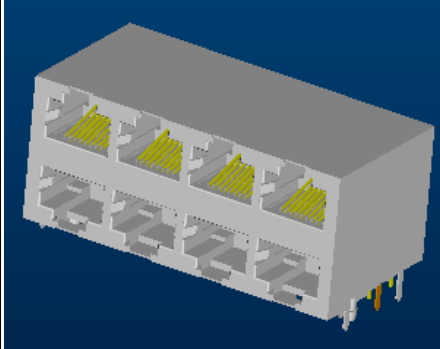
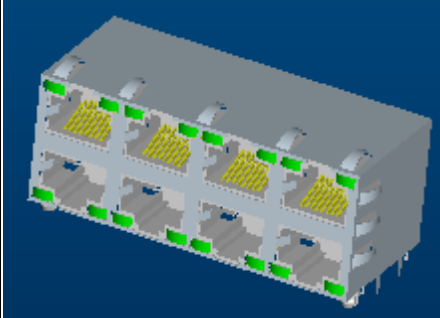


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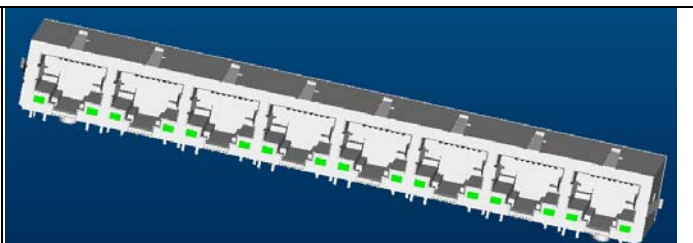
## 1.0 OBJECTIVE

This specification defines the performance, test and reliability requirements of RJ45 series connector.

|                                                                                                |                                                                                      |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Ganged Multi-ports without LED<br>(10118061,10118062,10118063,10118064,<br>10118065)           |    |
| Ganged Multi-ports with LED<br>(10118066,10118067,10118068)                                    |   |
| Stacked Multi-ports without LED<br>(10118069,10118070,10118071,10118072,<br>10118073,10118074) |  |
| Stacked Multi-ports with LED<br>(10118075,10118076,10118077,10118078)                          |  |

|                                                       |                               |                                                                                     |                  |
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Ganged Multi-ports with LED  
(10113616)



## 2.0 SCOPE

This specification is applicable to RJ45 series connector. The standard operating temperatures for this product is  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ .

## 3.0 CONNECTOR SPECIFICATION

- 3-1 Connector shape, dimensions and PCB layout are shown on the customer drawings.
- 3-2 Packaging condition is shown on package specification.
- 3-3 RoHS Compliance per EU Directive 2002/95/EC
- 3-4 Plastic Housings:
  - A. Main Housing: High Thermoplastic UL94V-0, Black.
- 3-5 Terminals:
  - A. RJ Contacts: Copper Alloy.
  - B. RJ Solder Pins: Copper Alloy.
  - C. LED Solder Pins: Steel. ( LED by customer request)
- 3-6 Shields:
  - A. Shield: Copper Alloy.

|            |  |                       |  |                                                                                    |              |
|------------|--|-----------------------|--|------------------------------------------------------------------------------------|--------------|
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### 3-7 Plating:

- A. RJ Contacts: As P/N specified.
- B. RJ Solder Pins: 1u" gold over 50u" Nickel under-plating
- C. LED Solder Pins: 100u" min. Bright Tin or matte Tin over 50u" Nickel under-plating (LED by customer request)
- D. Shield: 20u" Nickel over all.

## 4.0 OPERATING & TEST REQUIREMENTS

Product is designed to meet electrical, mechanical and environmental performance requirements specified below. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

4.1 Operating Temperature Range: -40° TO +85°.

4.2 Storage Temperature: -40° to 85°.

4.3 Voltage : 150 volts AC.

4.4 Current : 1 Amps.

4.5 Test requirements and procedure summary

|        |            |      |                       |                                                                                     |                  |
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| ELECTRICAL |                                          |                                                                                                                                                                                              |                                                                                                                                         |
|------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|            | Item                                     | Test Condition                                                                                                                                                                               | Specification                                                                                                                           |
| 4.5.1      | Low Level Contact Resistance             | Mate subject connector with compatible connector.<br>EIA-364-23                                                                                                                              | 40 mΩ max. initial<br>50 mΩ max. final                                                                                                  |
| 4.5.2      | Insulation Resistance                    | Apply 100±10% Volts DC between adjacent contacts of mated connectors for one minute.<br>EIA-364-21                                                                                           | 1000 MΩ min initial<br>50 MΩ min final                                                                                                  |
| 4.5.3      | Dielectric Withstanding Voltage          | For mated specimens, 2250VDC between connected RJ interface contacts and all PCB tails connected together with shield. 1 mA cutoff current, 500 Volts per second maximum ramp.<br>EIA-364-20 | No discharge, flashover or breakdown for 1 min.<br>Current leakage: 1 mA max.                                                           |
| 4.5.4      | Temperature Rise                         | 30□ Max. Change allowed                                                                                                                                                                      | Mate connector: measure the temperature rise at rated current until temperature stable. The ambient condition is still air.(EIA-364-70) |
| MECHANICAL |                                          |                                                                                                                                                                                              |                                                                                                                                         |
|            | Item                                     | Test Condition                                                                                                                                                                               | Specification                                                                                                                           |
| 4.5.5      | Un-mating Force (with locked & unlocked) | Measure force necessary to un-mate connectors using the free floating fixtures at rate of 25mm/min.                                                                                          | Un-mating force:<br>unlocked: 9.8N max.<br>locked: 89N min.                                                                             |
| 4.5.6      | Mating Force                             | Measured with latch depressed.<br>EIA-364-13                                                                                                                                                 | Mating force: 22N max.                                                                                                                  |

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|       |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                  |
|-------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 4.5.7 | Physical Shock   | Subject mated connectors to 50 G's (peak value) half-sine shock pulses of 11 milliseconds duration. Three shocks in each direction shall be applied along the three mutually perpendicular axes of the test specimen (18 shocks). The electrical load condition shall be 100mA maximum for all contacts. EIA-364-27                                                                                                                                                                      | No electrical discontinuity greater than 1μsecond. Shall meet visual requirements, and show no physical damages. |
| 4.5.8 | Durability       | The sample should be mounted in the tester and fully mated and unmated 300 times per hour at the rate of 25mm/min. EIA-364-09                                                                                                                                                                                                                                                                                                                                                            | 1000 cycles with no function damage for RJ-45.<br>Low Level Contact Resistance: 50mΩ max. final                  |
| 4.5.9 | Random Vibration | The electrical load condition shall be 100mA maximum for all contacts. Subject to a simple harmonic motion having amplitude of 0.76mm (1.52mm maximum total excursion) in frequency which being varied uniformly between the approximate limits of 10 and 55 Hz. The entire frequency range, from 10 to 55 Hz and return to 10 Hz, shall be traversed in approximately 1 minute. This motion shall be applied for 2 hours in each of three mutually perpendicular directions. EIA-364-28 | No electrical discontinuity greater than 1μsecond. Shall meet visual requirements, and show no physical damages. |

|                                                       |                               |                                                                                     |                  |
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| ENVIRONMENTAL |                                        |                                                                                                                                                                     |                                                                                                               |
|---------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|               | Item                                   | Test Condition                                                                                                                                                      | Specification                                                                                                 |
| 4.5.10        | Thermal Shock<br>(Temperature Cycling) | Subject mated connectors to 5 cycles between -55□ and 85□, 30 minutes duration at both temperature extremes.<br>EIA-364-32                                          | Shall meet visual requirements, show no physical damage.<br>Low Level Contact Resistance: 50 mΩ max. final    |
| 4.5.11        | Humidity-Temperature Cycling           | Mated connectors placed in humidity chamber (Humidity 90-95%, Temperature 40±2□) for 96 hours.<br>EIA-364-31                                                        | Shall meet visual requirements, show no physical damage.<br>Low Level Contact Resistance:<br>50 mΩ max. final |
| 4.5.12        | Temperature Life<br>(Heat Aging)       | Subject mated connectors to temperature life at 65±2□ for 96 hours.<br>EIA-364-17, METHOD A                                                                         | Shall meet visual requirements, show no physical damage.<br>Low Level Contact Resistance:<br>50 mΩ max. final |
| 4.5.13        | Solderability                          | Subject the test area of contacts into flux for 5~10 seconds and then dip into solder bath, controlled at 265±5□, for 5±0.5 seconds at a rate of 25±6mm per second. | Solderable area shall have minimum of 95% solder coverage.                                                    |

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| ENVIRONMENTAL |                                   |                                                                                                     |                                                                                                                       |
|---------------|-----------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
|               | Item                              | Test Condition                                                                                      | Specification                                                                                                         |
| 4.5.14        | Salt Spray                        | Subject mated/unmated connectors to 5% salt-solution concentration, 35° for 48 hours.<br>EIA-364-26 | Shall meet visual requirements, show no physical damage.<br><br>Low Level Contact Resistance:<br><br>50 mΩ max. final |
| 4.5.15        | Resistance to Wave Soldering Heat | Peak Temp. : 265±5° for 5 seconds.<br>Refer to "7. Recommend wave soldering profile) "              | Shall meet visual requirements, show no physical damage.                                                              |

(a) All tests are for RJ45 Module unless otherwise specified.

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## 5.0 TEST PLAN

| <div> <div>Test group</div> <div>Test sequence</div> <div>Test Item</div> </div> |                                   | A   | B   | C   | D   | E   | F   | G   | H   | I   |
|----------------------------------------------------------------------------------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Examination of product                                                           |                                   | 1,7 | 1,7 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,7 | 1,3 |
| 4.5.1                                                                            | Low Level Contact Resistance      |     | 2,6 | 2,4 | 2,4 | 2,4 |     | 2,4 | 3,6 |     |
| 4.5.2                                                                            | Insulation Resistance             | 2,5 |     |     |     |     |     |     |     |     |
| 4.5.3                                                                            | Dielectric Withstanding Voltage   | 3,6 |     |     |     |     |     |     |     |     |
| 4.5.4                                                                            | Temperature Rise                  |     |     |     |     |     |     |     |     | 2   |
| 4.5.5                                                                            | Un-mating Forces                  |     |     |     |     |     | 3   |     |     |     |
| 4.5.6                                                                            | Mating Force                      |     | 3,5 |     |     |     |     |     | 2   |     |
| 4.5.7                                                                            | Physical Shock                    |     |     |     |     |     |     |     | 5   |     |
| 4.5.8                                                                            | Durability                        | 4   | 4   |     |     |     |     |     |     |     |
| 4.5.9                                                                            | Random Vibration                  |     |     |     |     |     |     |     | 4   |     |
| 4.5.10                                                                           | Thermal Shock                     |     |     |     |     | 3   |     |     |     |     |
| 4.5.11                                                                           | Humidity-Temperature Cycling      |     |     |     | 3   |     |     |     |     |     |
| 4.5.12                                                                           | Temperature Life                  |     |     | 3   |     |     |     |     |     |     |
| 4.5.13                                                                           | Solderability                     |     |     |     |     |     | 2   |     |     |     |
| 4.5.14                                                                           | Salt Spray                        |     |     |     |     |     |     | 3   |     |     |
| 4.5.15                                                                           | Resistance to Wave Soldering Heat |     |     |     |     |     | 4   |     |     |     |

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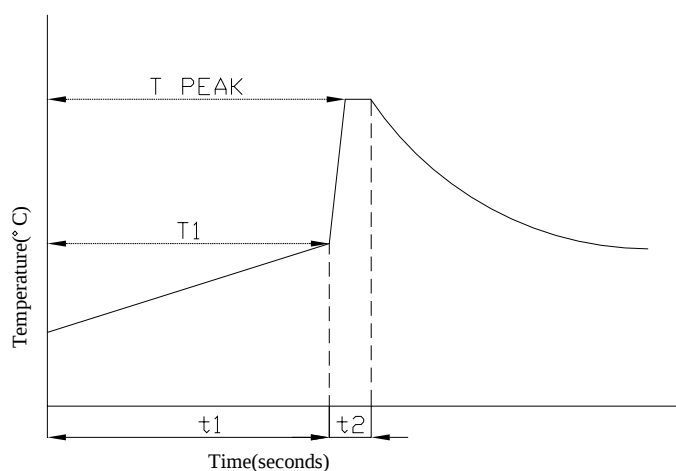
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## 6.0 STORAGE REQUIREMENTS

All products shall be packaged against any physical damage and corrosion during shipment or in storage.

## 7.0 RECOMMEND WAVE SOLDERING PROFILE



| PARAMETER                    | REFERENCE | LEAD FREE SPECIFICATION |
|------------------------------|-----------|-------------------------|
| PREHEAT TEMPERATURE GRADIENT |           | +1~4°C/sec              |
| PREHEAT TIME                 | t1        | 2~3 Min.                |
| PREHEAT TEMPERATURE          | T1        | >100°C                  |
| SOLDER POT TEMPERATURE       | T PEAK    | 265°C±5°C               |
| DWELL TIME                   | t2        | 5 Sec.                  |
| PEAK BOARD TOP TEMPERATURE   |           | 190°C                   |
| COOLING TEMPERATURE GRADIENT |           | -6°C/SEC Max.           |

|                                                       |                               |                                                                                     |                  |
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## 8.0 APPLICABLE PART NUMBER:

| Part Number        | Product Description                  | Remark |
|--------------------|--------------------------------------|--------|
| 10118061-xxxxxxxLF | Ganged Jack Multi-ports without LED  |        |
| 10118062-xxxxxxxLF | Ganged Jack Multi-ports without LED  |        |
| 10118063-xxxxxxxLF | Ganged Jack Multi-ports without LED  |        |
| 10118064-xxxxxxxLF | Ganged Jack Multi-ports without LED  |        |
| 10118065-xxxxxxxLF | Ganged Jack Multi-ports without LED  |        |
| 10118066-xxxxxxxLF | Ganged Jack Multi-ports with LED     |        |
| 10118067-xxxxxxxLF | Ganged Jack Multi-ports with LED     |        |
| 10118068-xxxxxxxLF | Ganged Jack Multi-ports with LED     |        |
| 10118069-xxxxxxxLF | Stacked Jack Multi-ports without LED |        |
| 10118069-xxxxxxxLF | Stacked Jack Multi-ports without LED |        |
| 10118070-xxxxxxxLF | Stacked Jack Multi-ports without LED |        |
| 10118071-xxxxxxxLF | Stacked Jack Multi-ports without LED |        |
| 10118072-xxxxxxxLF | Stacked Jack Multi-ports without LED |        |
| 10118073-xxxxxxxLF | Stacked Jack Multi-ports without LED |        |
| 10118074-xxxxxxxLF | Stacked Jack Multi-ports without LED |        |
| 10118075-xxxxxxxLF | Stacked Jack Multi-ports with LED    |        |
| 10118076-xxxxxxxLF | Stacked Jack Multi-ports with LED    |        |
| 10118077-xxxxxxxLF | Stacked Jack Multi-ports with LED    |        |
| 10118078-xxxxxxxLF | Stacked Jack Multi-ports with LED    |        |
| 10113616-xxxxxxxLF | Ganged Jack Multi-ports with LED     |        |

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### Revision Record

| Revision | Page   | Description                                                                                                   | ECR No.          | Date       |
|----------|--------|---------------------------------------------------------------------------------------------------------------|------------------|------------|
| A        | ALL    | Released                                                                                                      | -----            | 09/03/2011 |
| B        | 2,3,10 | Adding new P/Ns of 10113616 series;<br>Updating Operating Temperature<br>Range from -0° ~ 70° to -40° ~ +85°. | ECN-ELX-N-008543 | 12/13/2011 |

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| <a href="#"><u>10118075-510B010LF</u></a> | <a href="#"><u>10118075-513B010LF</u></a> | <a href="#"><u>10118075-520B010LF</u></a> | <a href="#"><u>10118075-523B010LF</u></a> | <a href="#"><u>10118075-530B010LF</u></a> |
| <a href="#"><u>10118075-533B010LF</u></a> | <a href="#"><u>10118076-110B010LF</u></a> | <a href="#"><u>10118076-113B010LF</u></a> | <a href="#"><u>10118076-120B010LF</u></a> | <a href="#"><u>10118076-123B010LF</u></a> |
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| <a href="#"><u>10118078-110B010LF</u></a> | <a href="#"><u>10118078-113B010LF</u></a> | <a href="#"><u>10118078-120B010LF</u></a> | <a href="#"><u>10118078-123B010LF</u></a> | <a href="#"><u>10118078-130B010LF</u></a> |
| <a href="#"><u>10118078-133B010LF</u></a> | <a href="#"><u>10118078-510B010LF</u></a> | <a href="#"><u>10118078-513B010LF</u></a> | <a href="#"><u>10118078-520B010LF</u></a> | <a href="#"><u>10118078-523B010LF</u></a> |
| <a href="#"><u>10118078-530B010LF</u></a> | <a href="#"><u>10118078-533B010LF</u></a> |                                           |                                           |                                           |