



## Product / Process Change Notification (PCN)

- ☒ Major change  
☐ Minor change

**PCN #:** PCN\_UtRJ45LAN\_20240301  
**Affected Series:** WE-UtRJ45LAN; 7499xxx; S1xxx  
**PCN Date:** December 01, 2023  
**Effective Date:** March 01, 2024

### Change Category:

- ☐ Equipment / Location  
☒ General Data  
☒ Material  
☒ Process  
☒ Product Design  
☐ Shipping / Packaging  
☐ Supplier  
☐ Software

**Contact:** Product Management  
**Phone:** +49 (0) 7942 - 945 5001  
**Fax:** +49 (0) 7942 - 945 5179  
**E-Mail:** pcn.eisos@we-online.com

### Data Sheet Change:

- ☒ Yes ☐ No

### Attachment:

- ☐ Yes ☒ No

### Description and purpose of change:

To ensure an improved product assembly, Würth Elektronik will implement a new spot welding design technology. Along with this, further general improvements are done in design and process, like shield plating or wire to shield insulation.

Additional Würth Elektronik will change to new data sheet format, correct datasheet mismatches & change dimensions from max-value to tolerance-value.

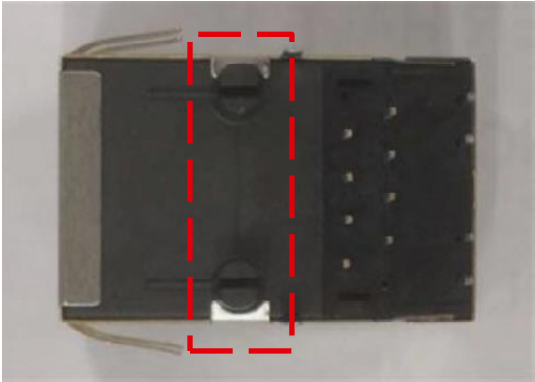
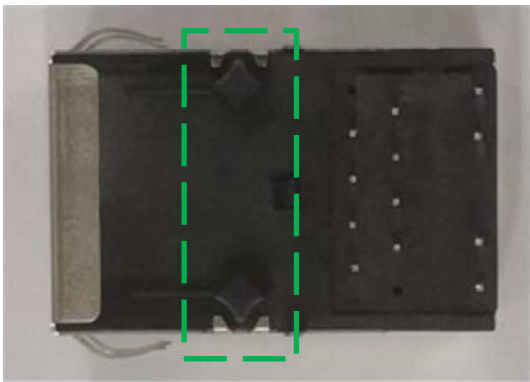
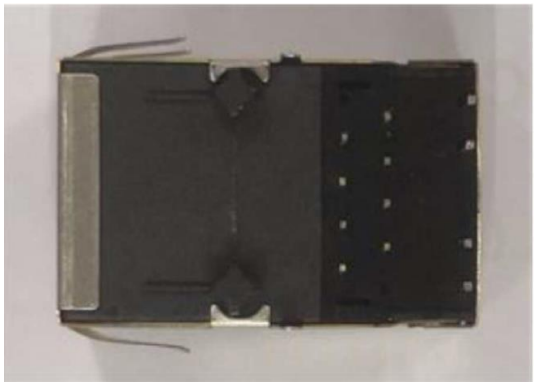
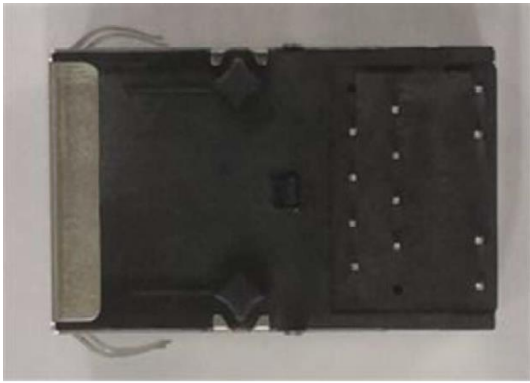
All products with date code 2024-03-01 or later, will be affected by this change.

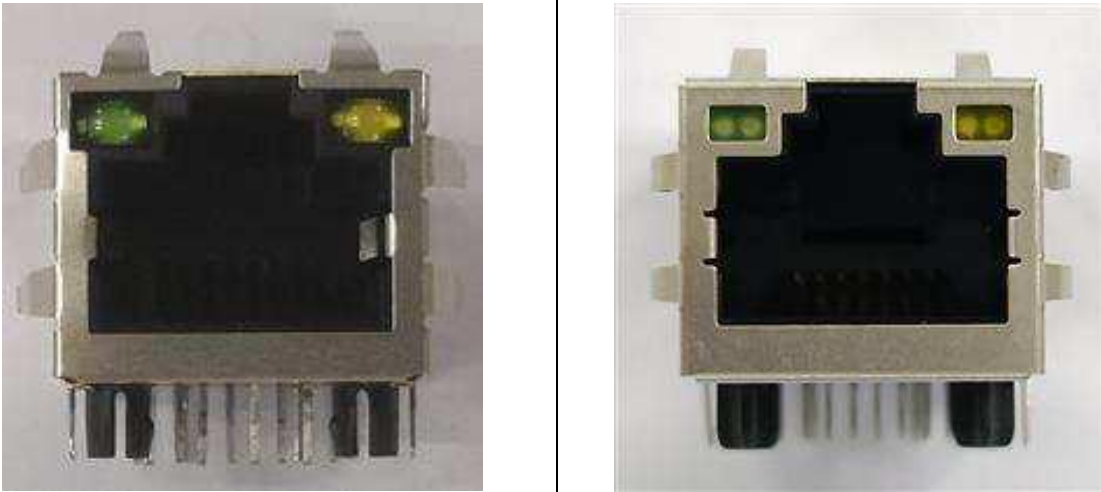
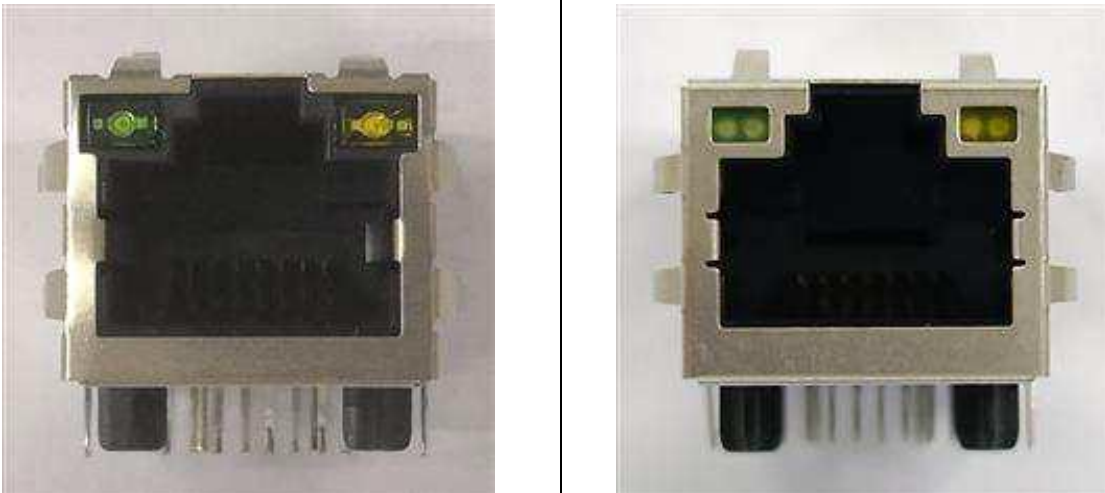
There will be no change in fit, function or quality of the product.

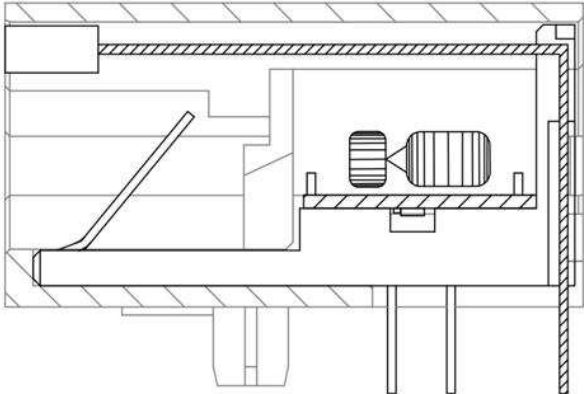
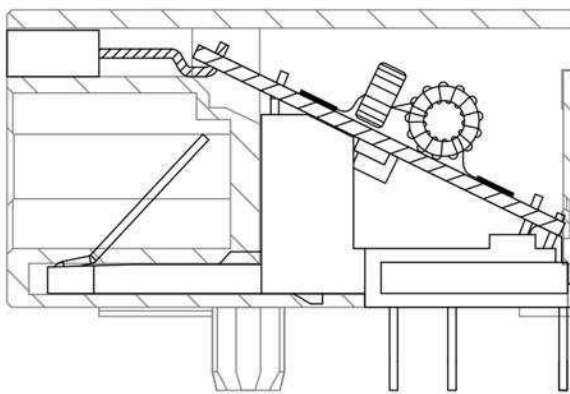
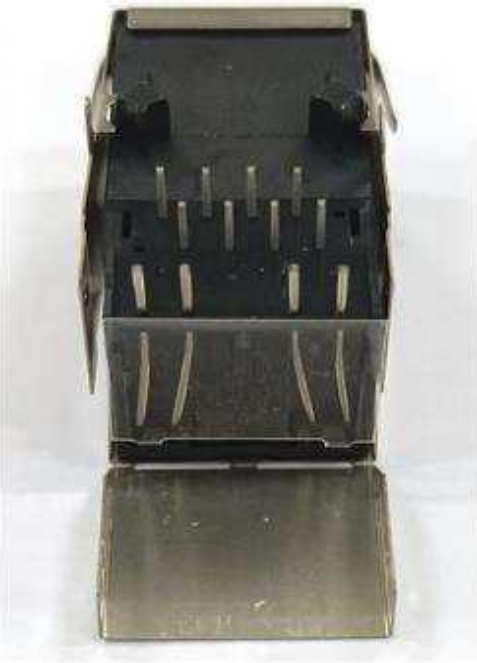
### Detail of Change:

#### Affected P/Ns:

|             |            |             |             |             |
|-------------|------------|-------------|-------------|-------------|
| 7499012121A | 7499010121 | 74990101212 | 7499010121A | 7499010214A |
| 7499010218A | S12100082  |             |             |             |

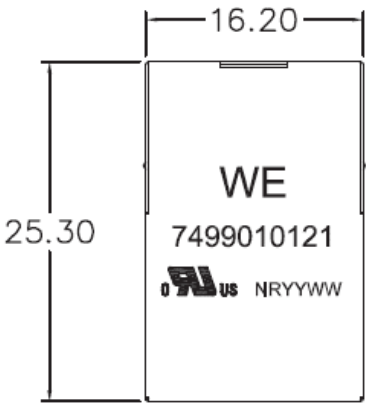
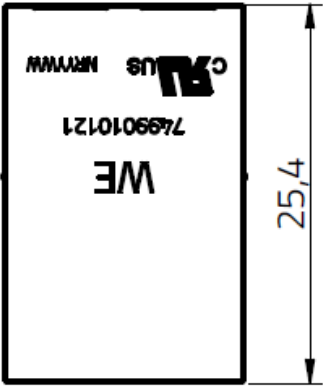
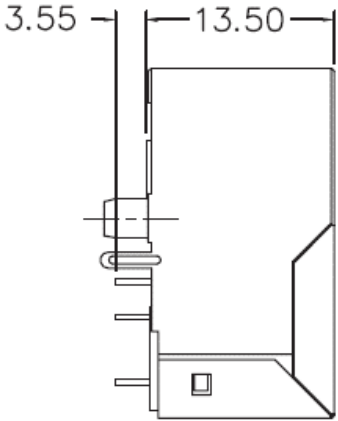
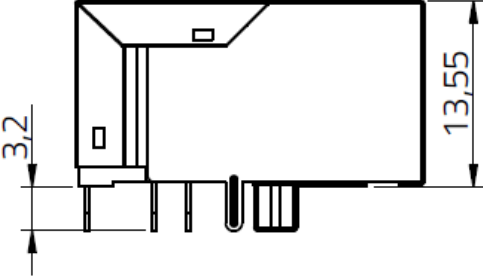
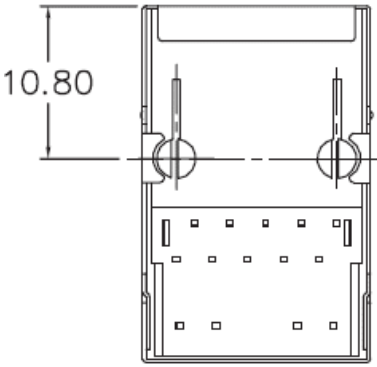
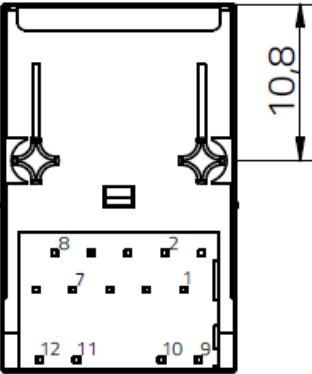
|    | Before Change                                                                                    | After Change                                                                         |
|----|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1A |                 |    |
|    | <b>Affected P/Ns:</b> 7499010121                                                                 |                                                                                      |
|    | <b>Above:</b> New design of plastic pin; Insert material change from PBT to PA66                 |                                                                                      |
| 1B |               |  |
|    | <b>Affected P/Ns:</b> 7499012121A, 74990101212, 7499010121A, 7499010214A, 7499010218A, S12100082 |                                                                                      |
|    | <b>Above:</b> Housing and Insert material change from PBT to PA66                                |                                                                                      |

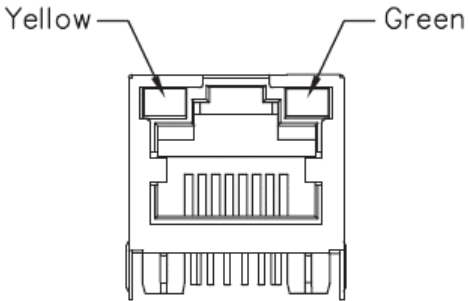
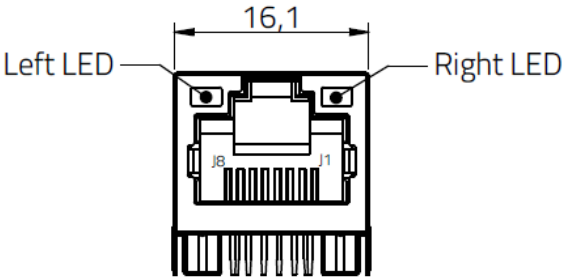
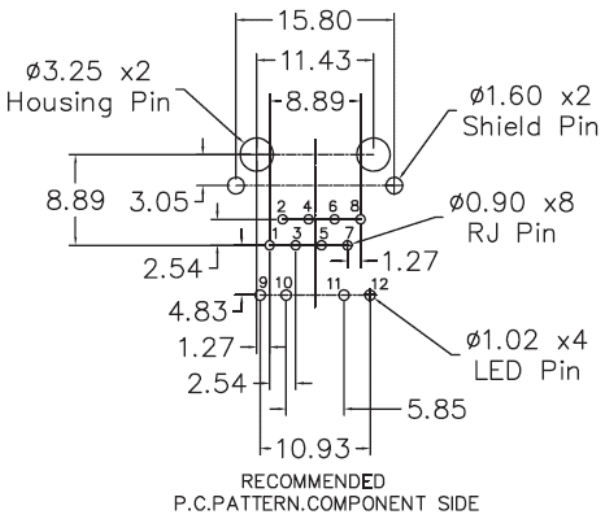
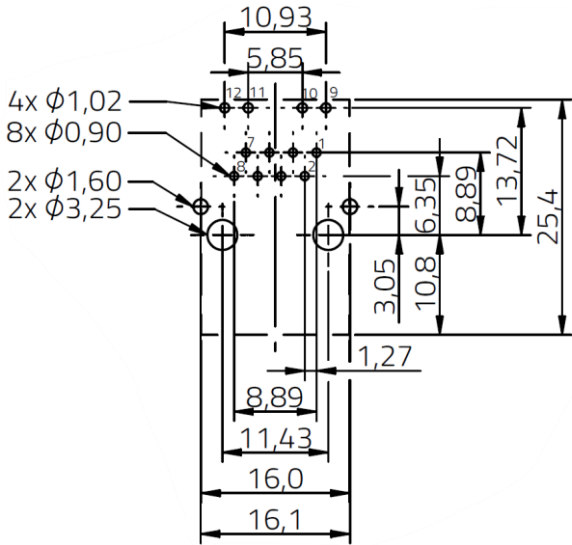
|    |                                                                                                           |  |
|----|-----------------------------------------------------------------------------------------------------------|--|
| 2A |                         |  |
|    | <b>Affected P/Ns:</b> 7499010121                                                                          |  |
|    | <b>Above:</b> Change the LED type from a half round to a flat surface; LED's are covered by the shielding |  |
| 2B |                       |  |
|    | <b>Affected P/Ns:</b> 7499012121A, 74990101212, 7499010121A, 7499010214A, 7499010218A, S12100082          |  |
|    | <b>Above:</b> LED's are covered by the shielding                                                          |  |
| 3  | Usage of standard core diameters, wires and number of turns.                                              |  |

|   |                                                                                                             |                                                                                      |
|---|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 4 | Change from manually soldering process of the Coils to automatic spot welding.                              |                                                                                      |
| 5 |                            |    |
|   | <b>Affected P/N:</b> 7499010121, 7499012121A, 74990101212, 7499010121A, 7499010214A, 7499010218A, S12100082 |                                                                                      |
|   | <b>Above:</b> Improved positioning of the PCB.                                                              |                                                                                      |
| 6 |                          |  |
|   | <b>Affected P/N:</b> 7499010121, 7499012121A, 74990101212, 7499010121A, 7499010214A, 7499010218A, S12100082 |                                                                                      |
|   | <b>Above:</b> Change from PET insulation film to a plastic cover.                                           |                                                                                      |

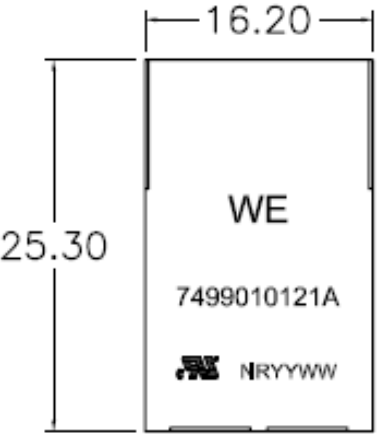
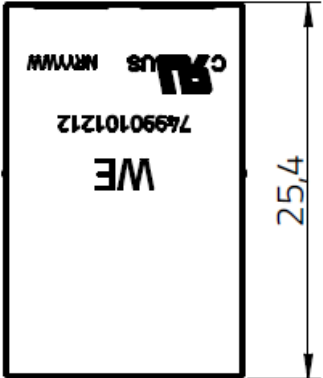
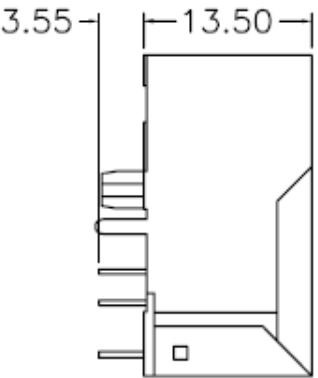
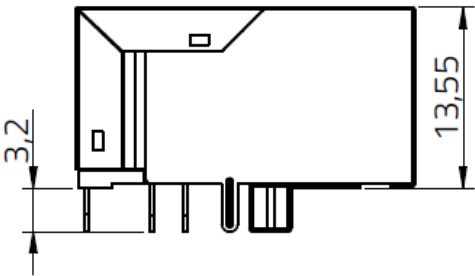
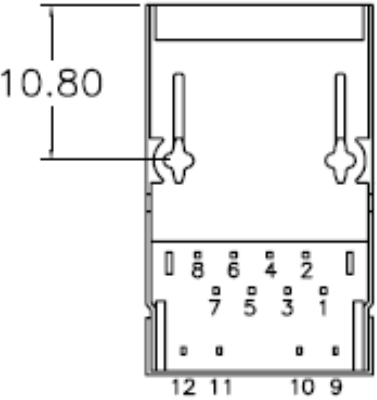
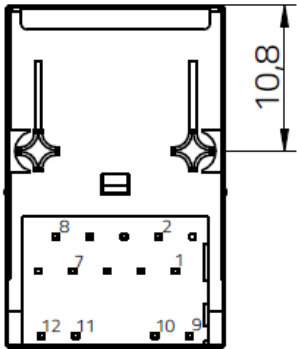
**Additional the following points will be corrected for different article numbers due to standardization:**

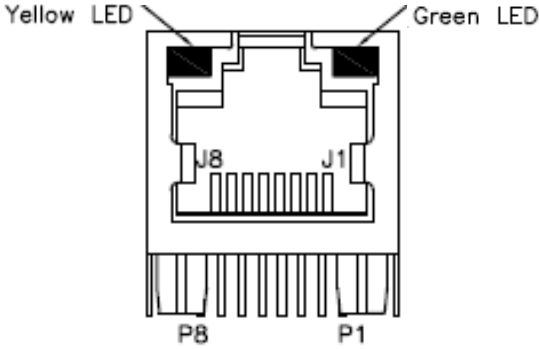
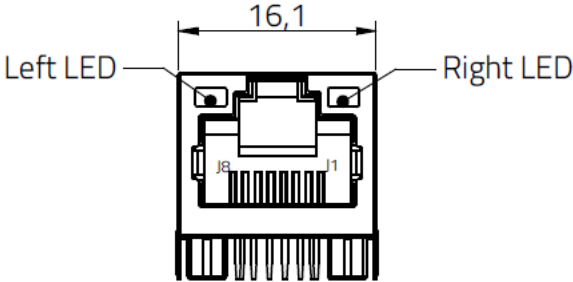
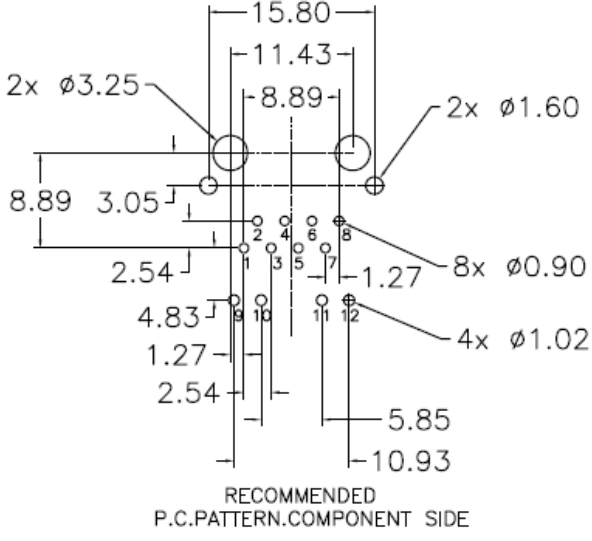
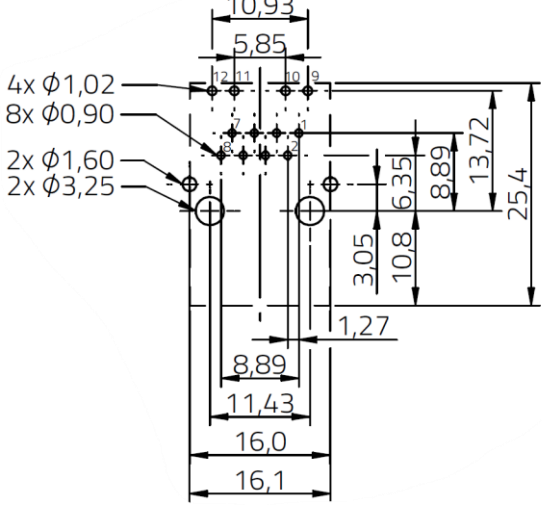
7499010121:

| Before Change                                                                       | After Change                                                                         |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |    |
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|                                                                                                                                       |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|                                                      |                               |
| <p>Dielectric Rating: 1500 Vrms</p>                                                                                                   | <p>Dielectric Rating: 2250 VDC</p>                                                                              |
| <p>Return Loss:<br/>         1-30 MHz<br/>         30-45 MHz<br/>         45-60 MHz<br/>         60-80 MHz</p>                        | <p>Return Loss:<br/>         1-30 MHz<br/>         30-60 MHz<br/>         60-80 MHz<br/>         80-100 MHz</p> |
| <p>Common Mode Rejection:<br/>         1-100 MHz</p>                                                                                  | <p>Common Mode Rejection:<br/>         1-30 MHz<br/>         30-60 MHz<br/>         60-100 MHz</p>              |
| <p>Crosstalk:<br/>         1-100 MHz</p>                                                                                              | <p>Crosstalk:<br/>         1-60 MHz<br/>         60-100 MHz</p>                                                 |
|  <p>RECOMMENDED<br/>P.C.PATTERN.COMPONENT SIDE</p> |                             |

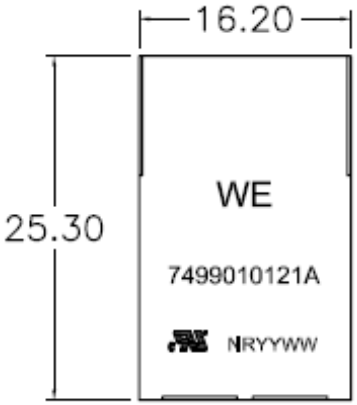
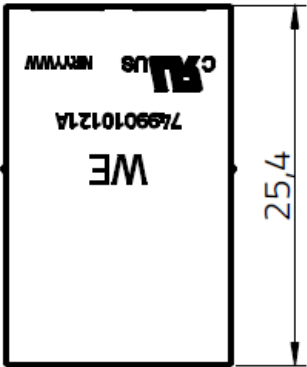
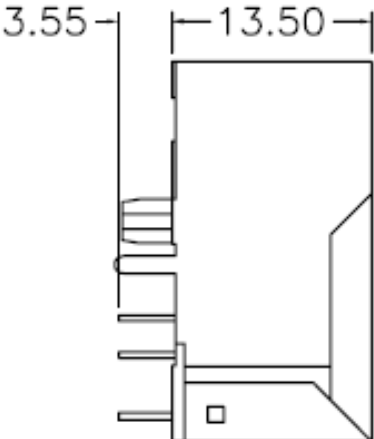
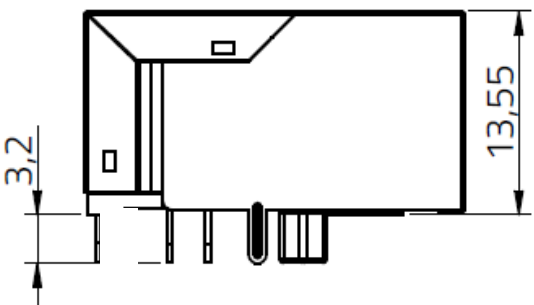
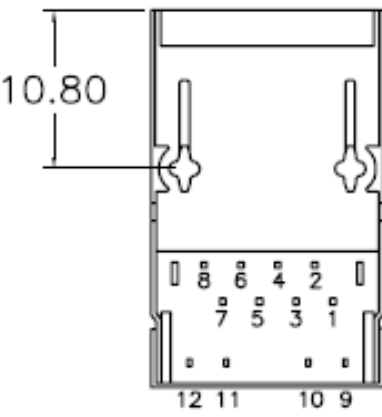
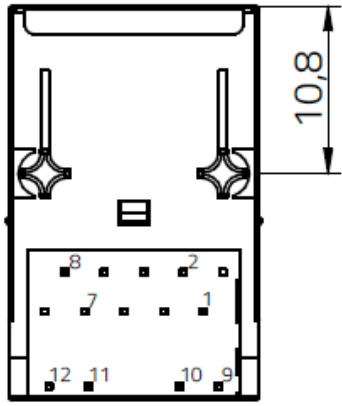
74990101212:

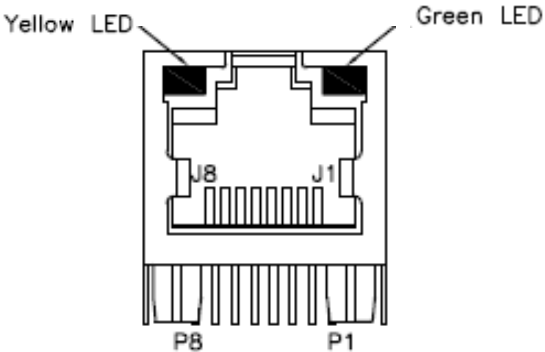
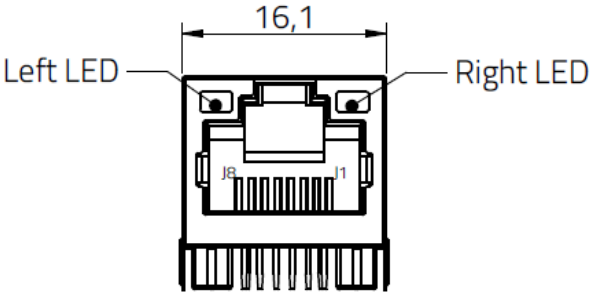
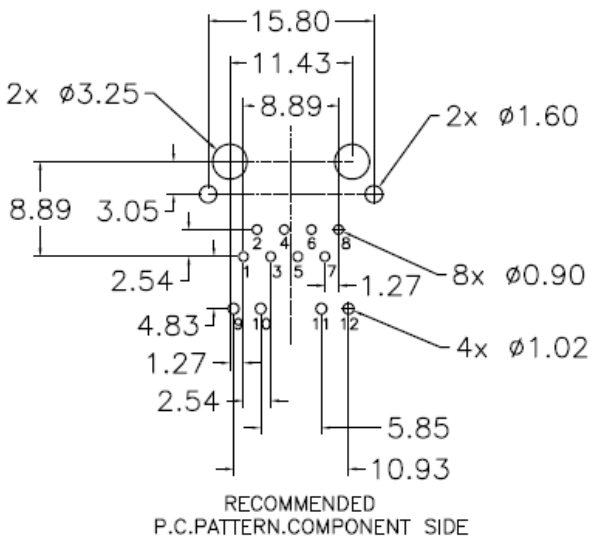
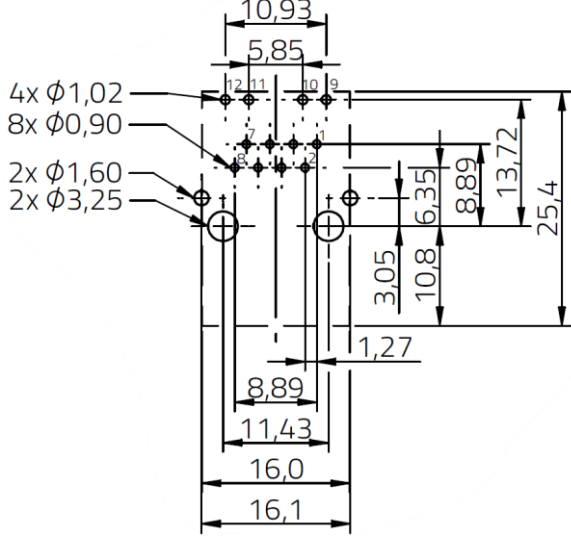
| Before Change                                                                                                                                                                                                    | After Change                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Top view of component 7499010121A. Dimensions: 16.20 (width) x 25.30 (height). Markings: WE, 7499010121A, NRYWW.</p>        |  <p>Top view of component 74990101212. Dimensions: 25.4 (height). Markings: WE, 74990101212, NRYWW.</p>            |
|  <p>Side view of component 7499010121A. Dimensions: 3.55 (height) x 13.50 (width).</p>                                         |  <p>Side view of component 74990101212. Dimensions: 3.2 (height) x 13.55 (width).</p>                            |
|  <p>Bottom view of component 7499010121A. Dimensions: 10.80 (height). Pin numbers: 12, 11, 10, 9, 8, 6, 4, 2, 7, 5, 3, 1.</p> |  <p>Bottom view of component 74990101212. Dimensions: 10.8 (height). Pin numbers: 8, 2, 7, 1, 12, 11, 10, 9.</p> |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                      |

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |    |
| Dielectric Rating: 1500 Vrms                                                        | Dielectric Rating: 2250 VDC                                                          |
| Return Loss:<br>1-30 MHz<br>30-45 MHz<br>45-60 MHz<br>60-80 MHz                     | Return Loss:<br>1-30 MHz<br>30-60 MHz<br>60-80 MHz<br>80-100 MHz                     |
| Common Mode Rejection:<br>1-100 MHz                                                 | Common Mode Rejection:<br>1-30 MHz<br>30-60 MHz<br>60-100 MHz                        |
| Crosstalk:<br>1-100 MHz                                                             | Crosstalk:<br>1-60 MHz<br>60-100 MHz                                                 |
|  |  |

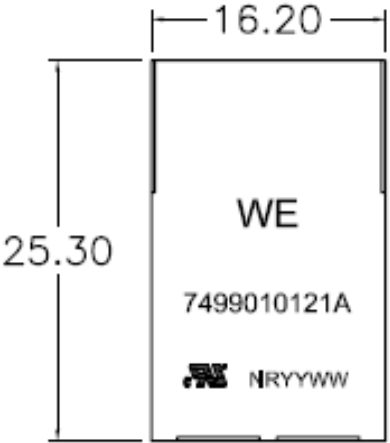
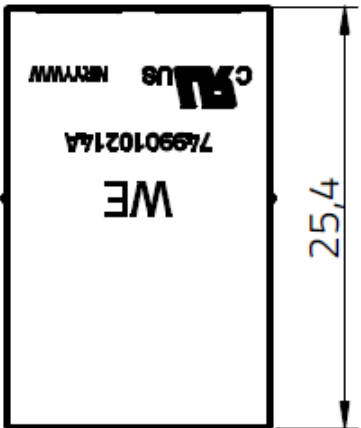
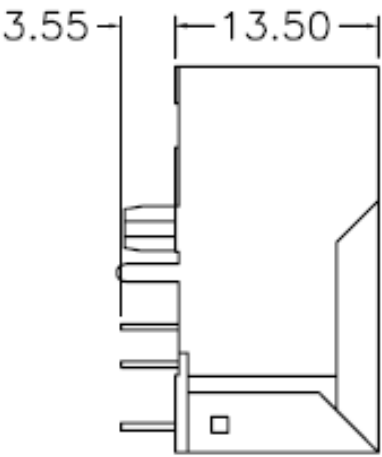
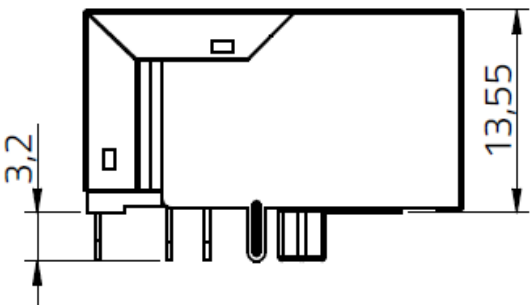
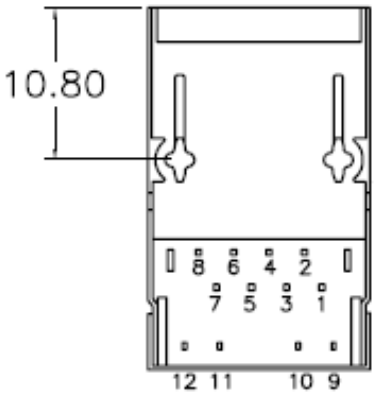
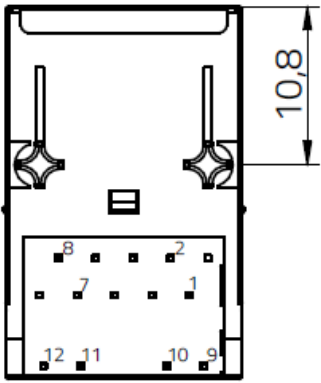


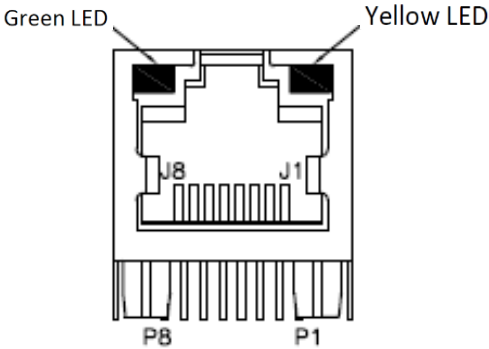
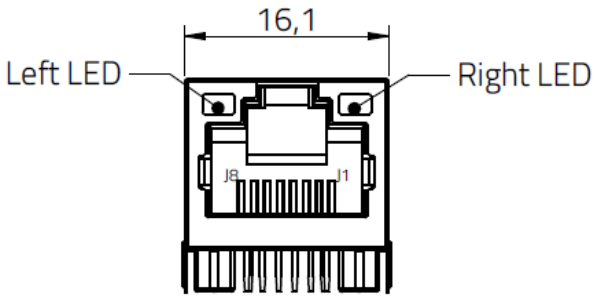
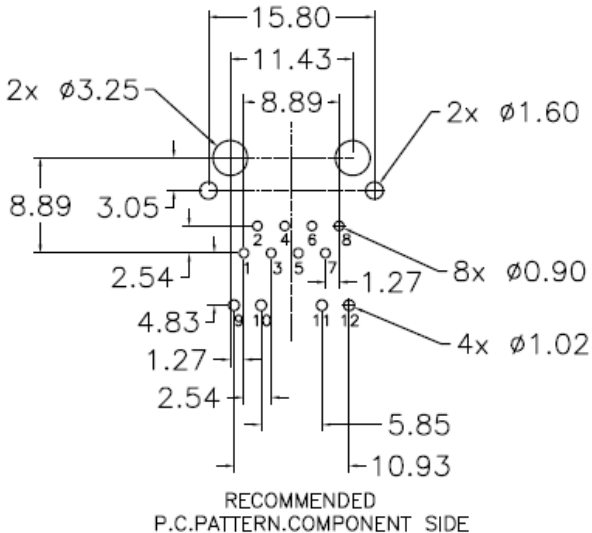
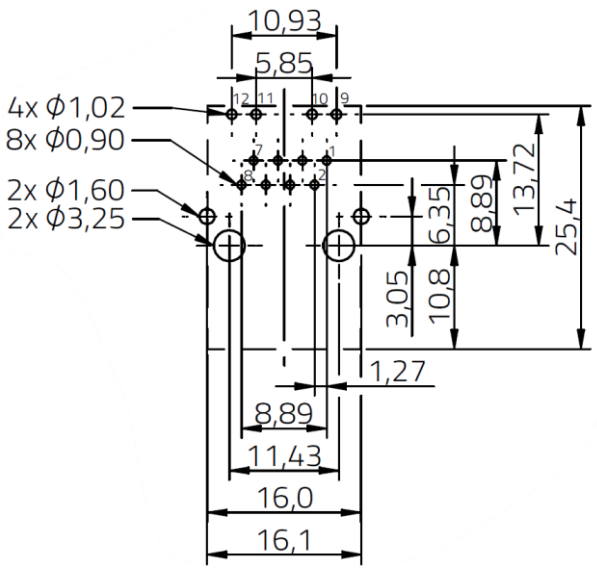
7499010121A:

| Before Change                                                                       | After Change                                                                         |
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|                                                                                     |                                                                                      |

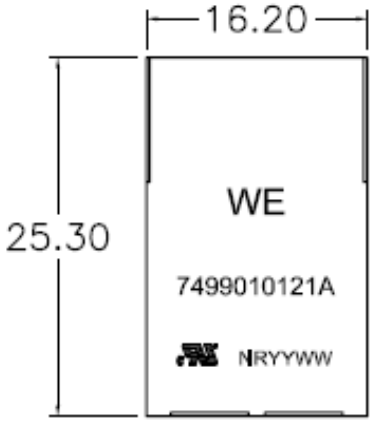
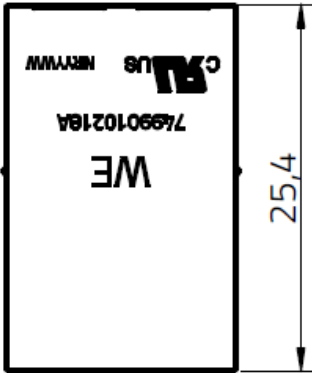
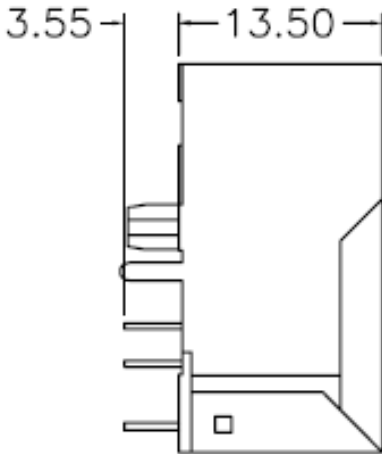
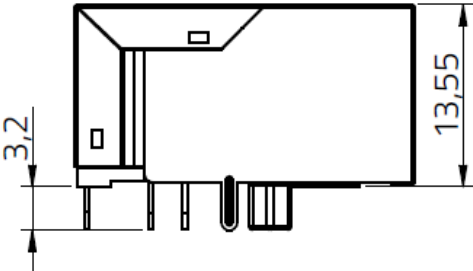
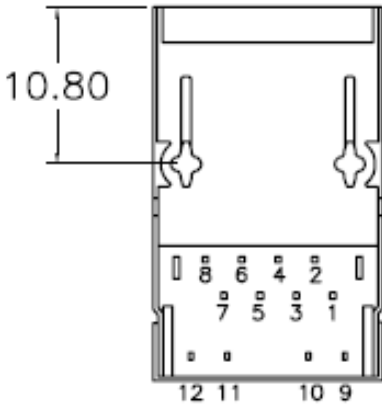
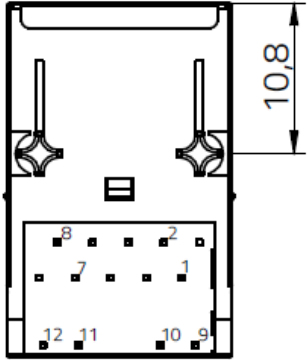
|                                                                                                                                       |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                      |    |
| Dielectric Rating: 1500 Vrms                                                                                                          | Dielectric Rating: 2250 VDC                                                          |
| Return Loss:<br>1-30 MHz<br>30-45 MHz<br>45-60 MHz<br>60-80 MHz                                                                       | Return Loss:<br>1-30 MHz<br>30-60 MHz<br>60-80 MHz<br>80-100 MHz                     |
| Common Mode Rejection:<br>1-100 MHz                                                                                                   | Common Mode Rejection:<br>1-30 MHz<br>30-60 MHz<br>60-100 MHz                        |
| Crosstalk:<br>1-100 MHz                                                                                                               | Crosstalk:<br>1-60 MHz<br>60-100 MHz                                                 |
|  <p>RECOMMENDED<br/>P.C.PATTERN.COMPONENT SIDE</p> |  |

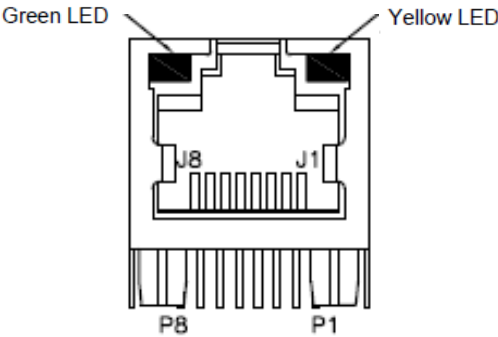
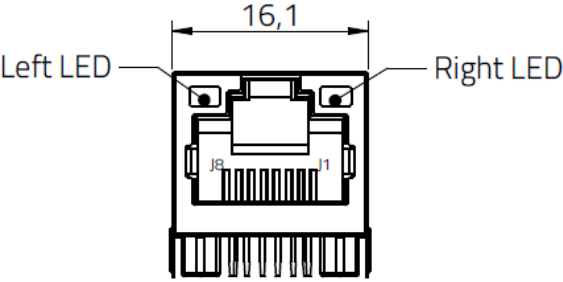
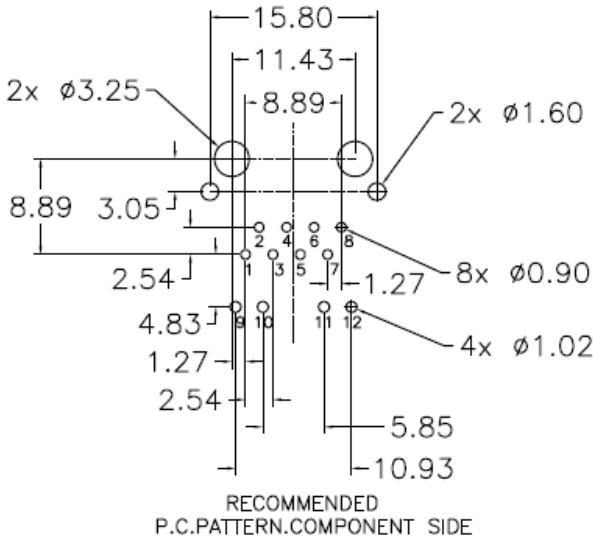
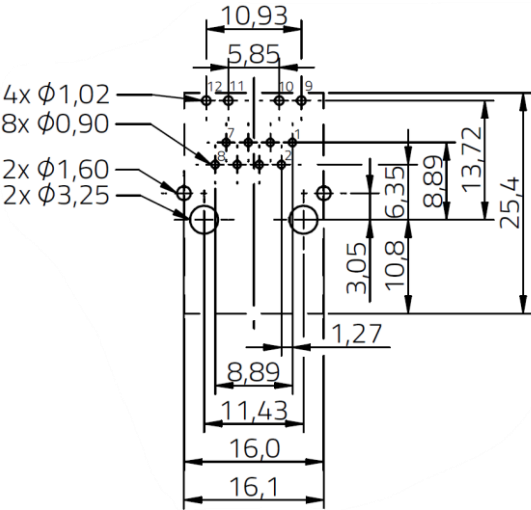
7499010214A:

| Before Change                                                                       | After Change                                                                         |
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|                                                                                     |                                                                                      |

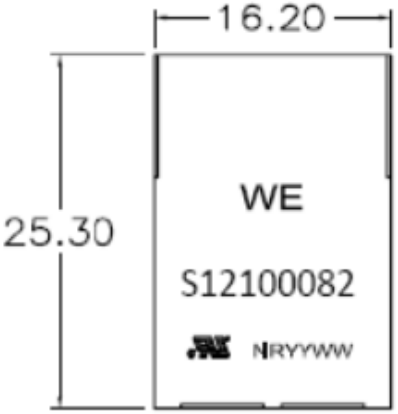
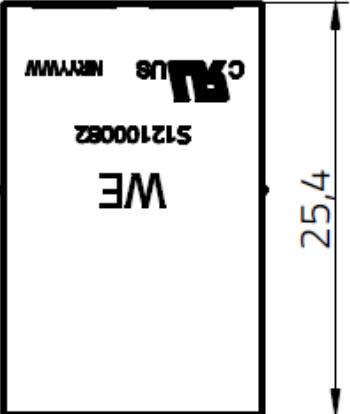
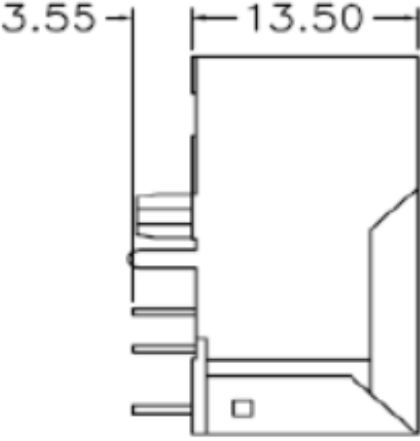
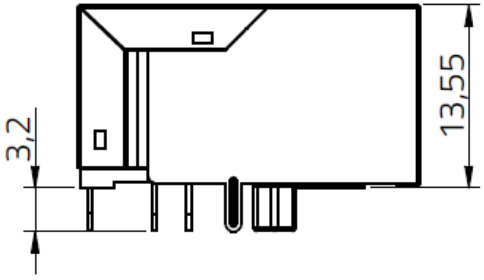
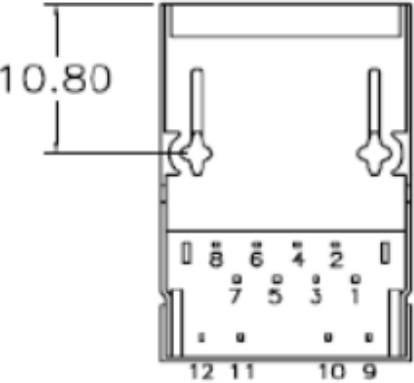
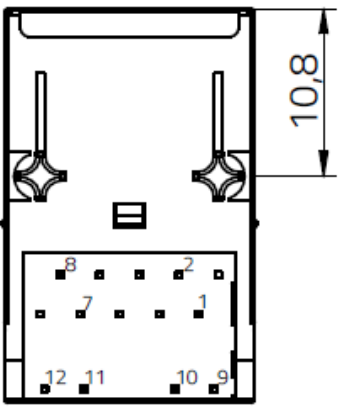
|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |    |
| Dielectric Rating: 1500 Vrms                                                        | Dielectric Rating: 2250 VDC                                                          |
| Return Loss:<br>1-30 MHz<br>30-45 MHz<br>45-60 MHz<br>60-80 MHz                     | Return Loss:<br>1-30 MHz<br>30-60 MHz<br>60-80 MHz<br>80-100 MHz                     |
| Common Mode Rejection:<br>1-100 MHz                                                 | Common Mode Rejection:<br>1-30 MHz<br>30-60 MHz<br>60-100 MHz                        |
| Crosstalk:<br>1-100 MHz                                                             | Crosstalk:<br>1-60 MHz<br>60-100 MHz                                                 |
|  |  |

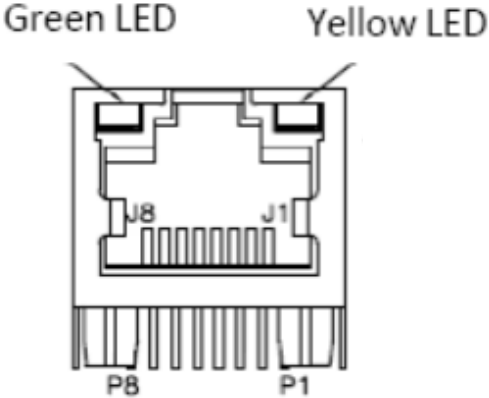
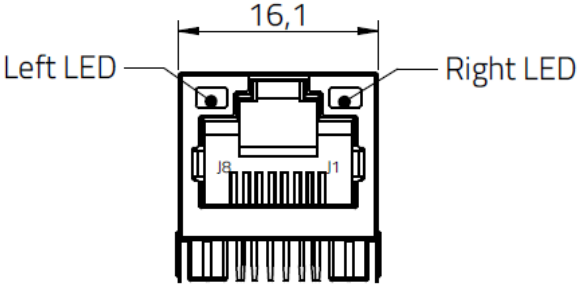
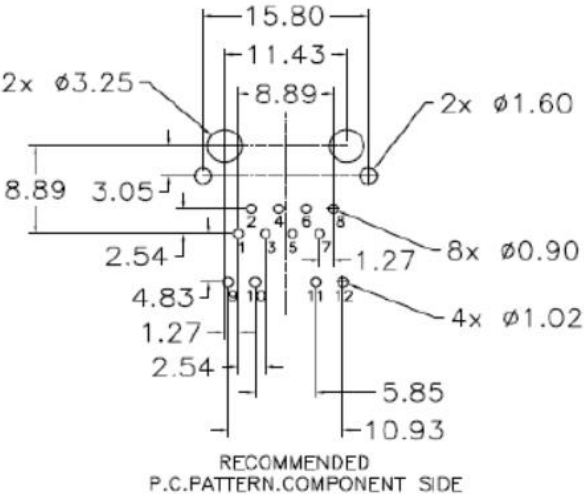
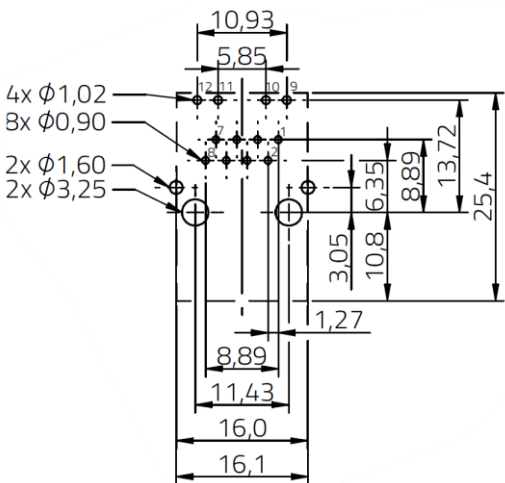
7499010218A:

| Before Change                                                                       | After Change                                                                         |
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| Dielectric Rating: 1500 Vrms                                                        | Dielectric Rating: 2250 VDC                                                          |
| Return Loss:<br>1-30 MHz<br>30-45 MHz<br>45-60 MHz<br>60-80 MHz                     | Return Loss:<br>1-30 MHz<br>30-60 MHz<br>60-80 MHz<br>80-100 MHz                     |
| Common Mode Rejection:<br>1-100 MHz                                                 | Common Mode Rejection:<br>1-30 MHz<br>30-60 MHz<br>60-100 MHz                        |
| Crosstalk:<br>1-100 MHz                                                             | Crosstalk:<br>1-60 MHz<br>60-100 MHz                                                 |
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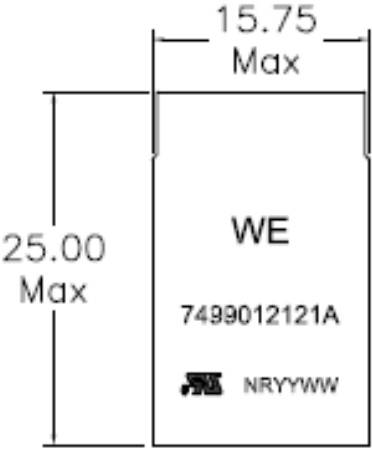
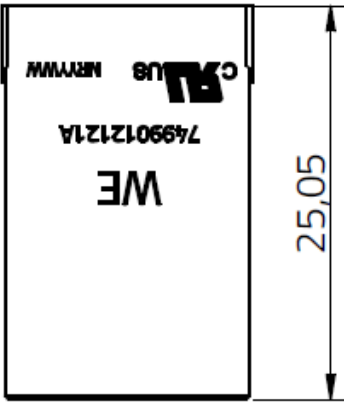
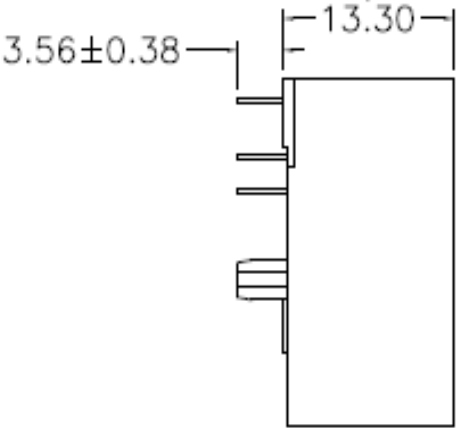
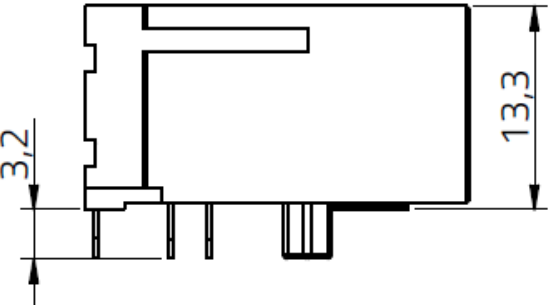
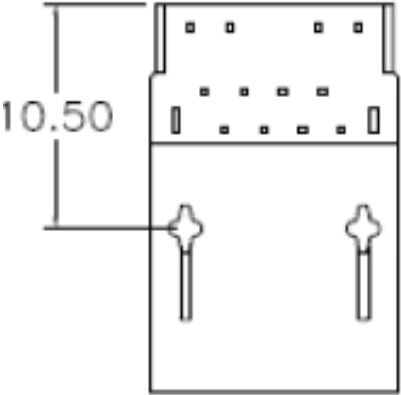
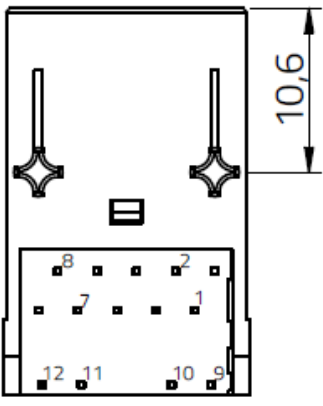
S12100082:

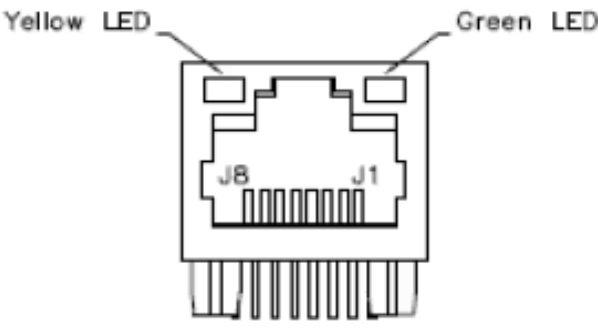
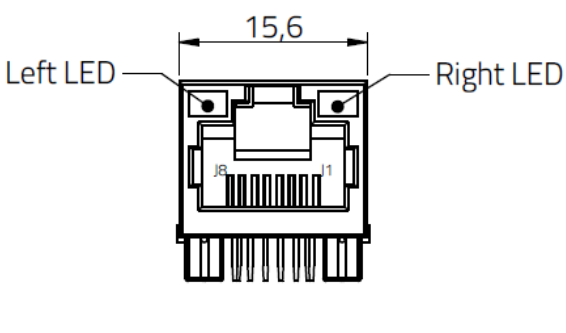
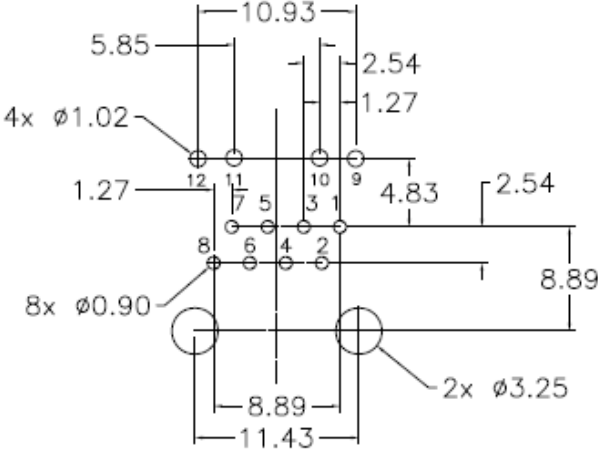
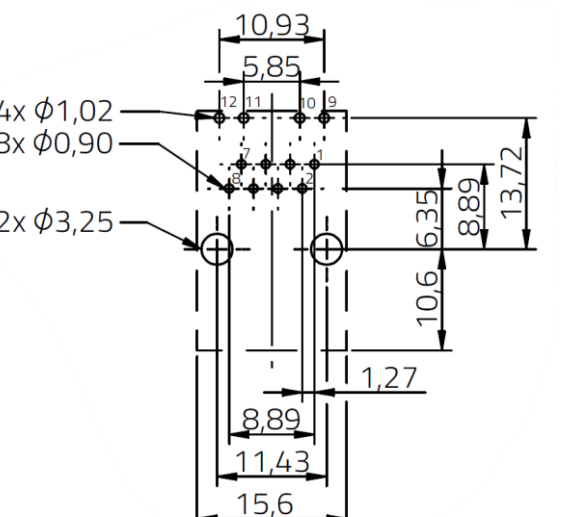
| Before Change                                                                       | After Change                                                                         |
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|                                                      |    |
| Dielectric Rating: 1500 Vrms                                                                                                          | Dielectric Rating: 2250 VDC                                                          |
| Return Loss:<br>1-30 MHz<br>30-45 MHz<br>45-60 MHz<br>60-80 MHz                                                                       | Return Loss:<br>1-30 MHz<br>30-60 MHz<br>60-80 MHz<br>80-100 MHz                     |
| Common Mode Rejection:<br>1-100 MHz                                                                                                   | Common Mode Rejection:<br>1-30 MHz<br>30-60 MHz<br>60-100 MHz                        |
| Crosstalk:<br>1-100 MHz                                                                                                               | Crosstalk:<br>1-60 MHz<br>60-100 MHz                                                 |
|  <p>RECOMMENDED<br/>P.C.PATTERN.COMPONENT SIDE</p> |  |



7499012121A:

| Before Change                                                                       | After Change                                                                         |
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|                                                               |                               |
| <p>Dielectric Rating: 1500 Vrms</p>                                                                                                            | <p>Dielectric Rating: 2250 VDC</p>                                                                              |
| <p>Return Loss:<br/>         1-30 MHz<br/>         30-45 MHz<br/>         45-60 MHz<br/>         60-80 MHz</p>                                 | <p>Return Loss:<br/>         1-30 MHz<br/>         30-60 MHz<br/>         60-80 MHz<br/>         80-100 MHz</p> |
| <p>Common Mode Rejection:<br/>         1-100 MHz</p>                                                                                           | <p>Common Mode Rejection:<br/>         1-30 MHz<br/>         30-60 MHz<br/>         60-100 MHz</p>              |
| <p>Crosstalk:<br/>         1-100 MHz</p>                                                                                                       | <p>Crosstalk:<br/>         1-60 MHz<br/>         60-100 MHz</p>                                                 |
|  <p>RECOMMENDED<br/>         P.C.PATTERN.COMPONENT SIDE</p> |                             |



**Reliability / Qualification Summary:**

Thermal Shock – MIL-STD-202-107

Vibration – MIL-STD-202-204

Mating & Un-mating – EIA-364-13D

Durability – EIA-364-09C

Moisture Resistance – MIL-STD-202-106

Static Pull – EIA-364-98

Dynamic Pull – EIA-364-41