Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
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eiSos@we-online.com · www.we-online.com

Product / Process Change Notification (PCN)

☒ Major change
☐ Minor change

PCN #:	PCN_UtRJ45LAN_20240320
Affected Series:	WE-UtRJ45LAN; 7499xxx; S1xxx; S2xxx
PCN Date:	December 20, 2023
Effective Date:	March 20, 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 2024-03-20 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:

7499010001A	74990110030	7499011123A	7499011211	74990112116A
7499011214A	7499011218A	7499011225A	7499011441A	7499110124
7499210124	7499210124A	S14100152	S15100116	S17100046
S17100065	S20100176			

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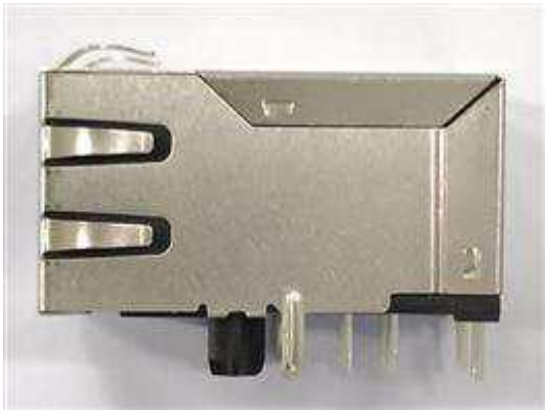
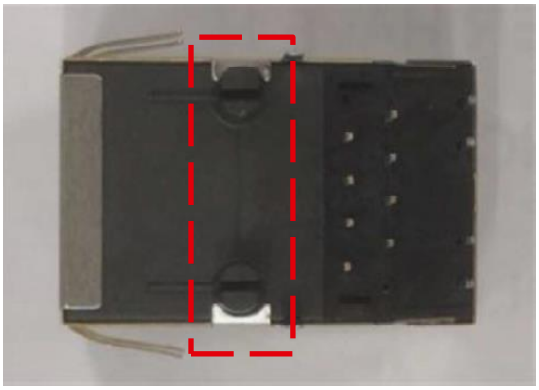
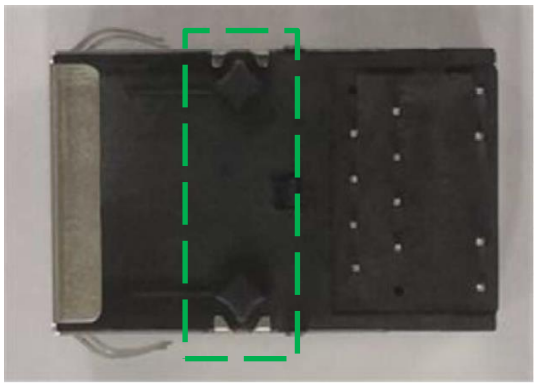
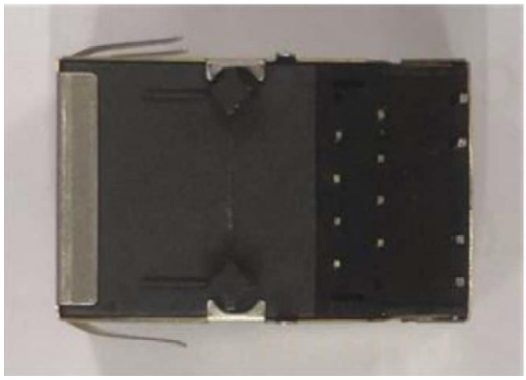
WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

	Before Change	After Change
1		
	Above: Metal shielding with improved EMI Finger design	
2A		
	Affected P/Ns: 7499011211, 7499210124	
	Above: New design of plastic pin; Insert material change from PBT to PA66	
2B		
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	Above: Housing and Insert material change from PBT to PA66	

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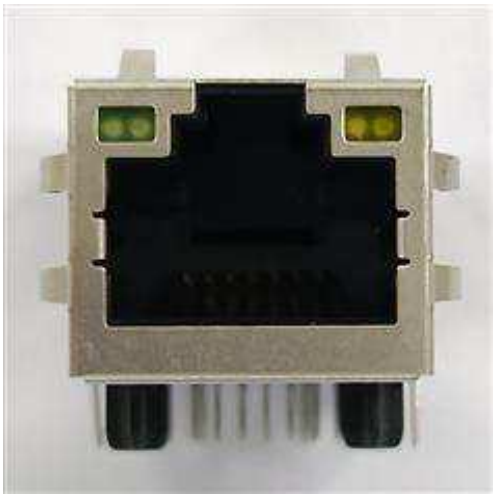
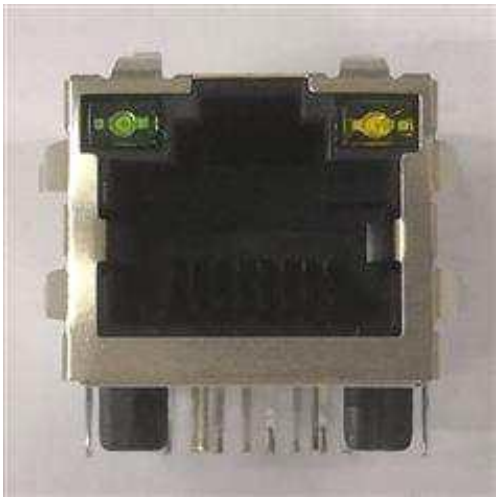
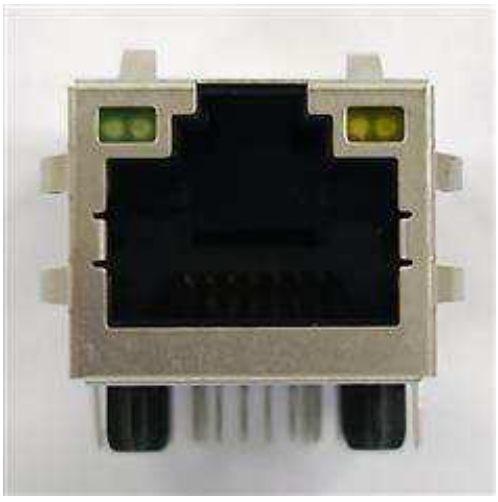
3A		
	Affected P/Ns: 7499011211, 7499210124	
	Above: Change the LED type from a half round to a flat surface; LED's are covered by the shielding	
3B		
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	Above: LED's are covered by the shielding	
4	Usage of standard core diameters, wires and number of turns.	

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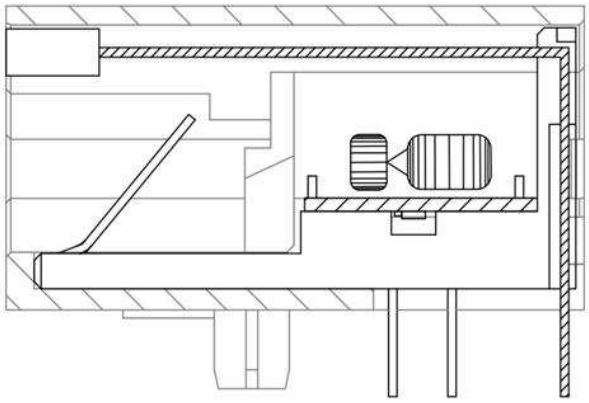
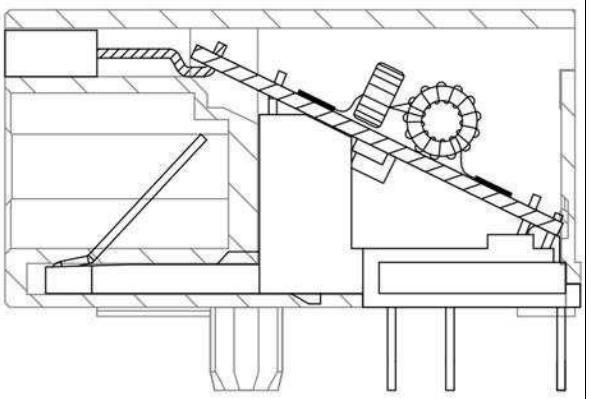
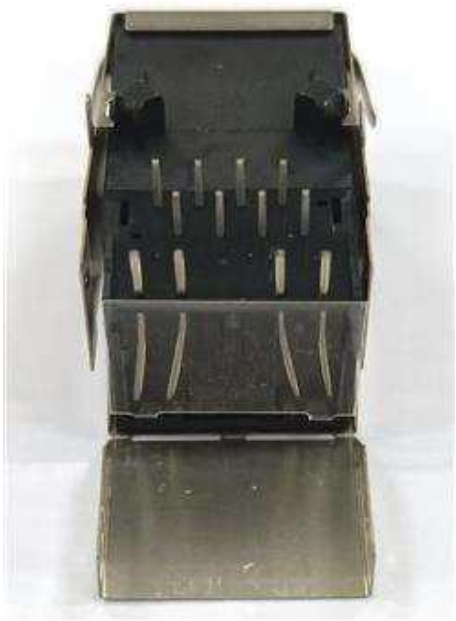
5	Change from manually soldering process of the Coils to automatic spot welding
6	 
	Above: Improved positioning of the PCB.
7	 
	Above: Change from PET insulation film to a plastic cover

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

7499010001A:

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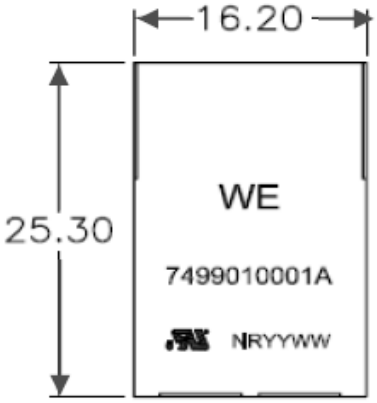	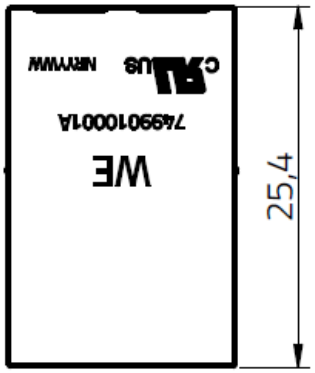
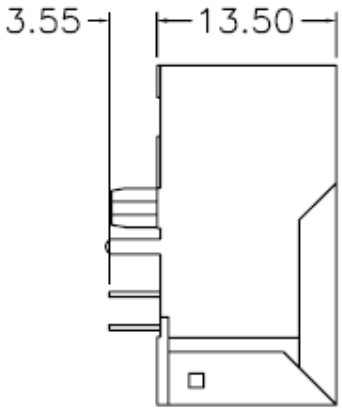	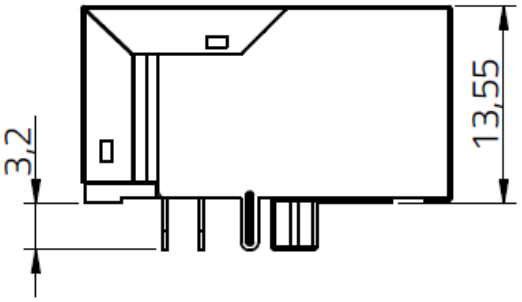
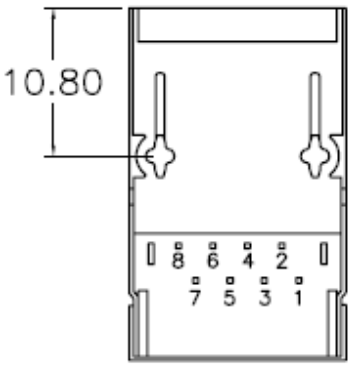	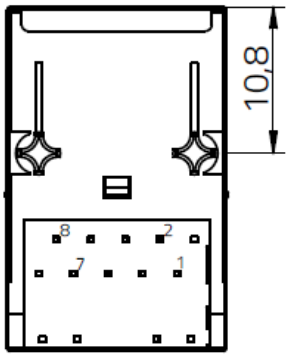

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Geschäftsführer Thomas Schrott, Alexander Gerfer, Thomas Wild, Dirk Knorr, Josef Wörner
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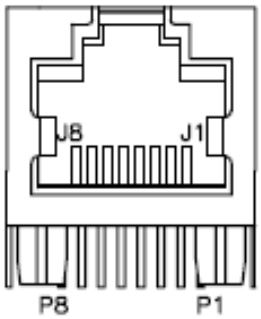	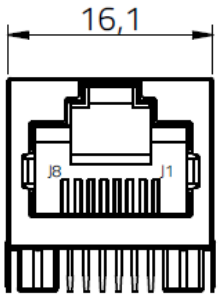
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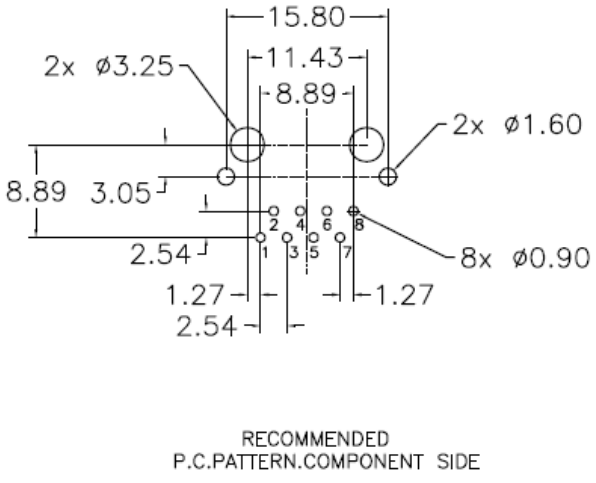
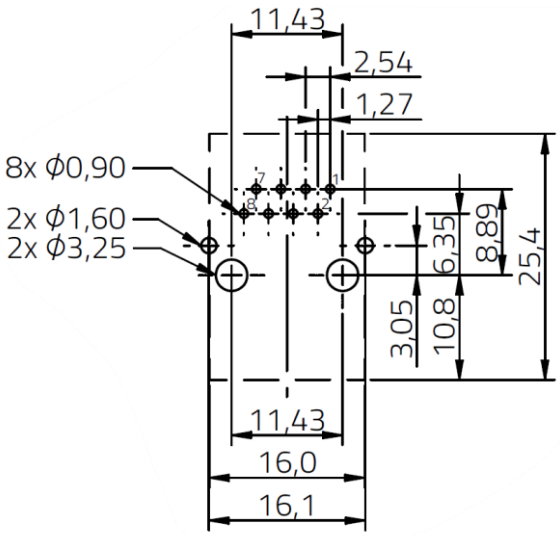
Return Loss: 1-10 MHz 10-30 MHz 30-60 MHz 60-80 MHz	Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz
Common Mode Rejection: 1-100 MHz	Common Mode Rejection: 1-30 MHz 30-60 MHz 60-100 MHz
Crosstalk: 1-100 MHz	Crosstalk: 1-60 MHz 60-100 MHz
	

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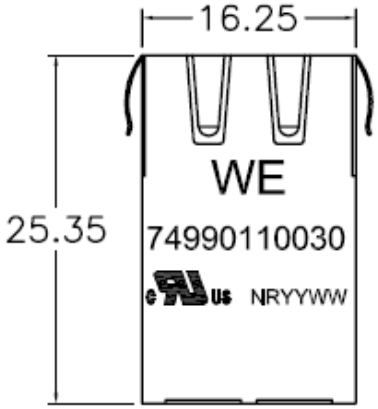	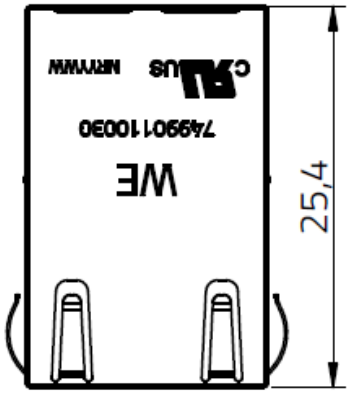
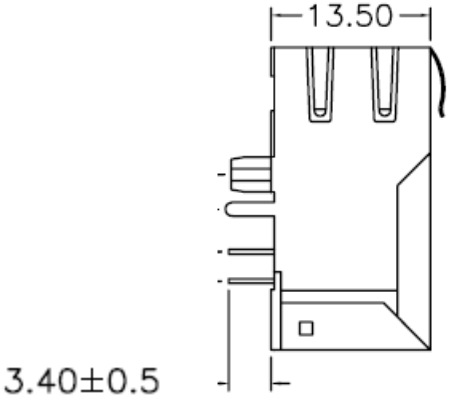	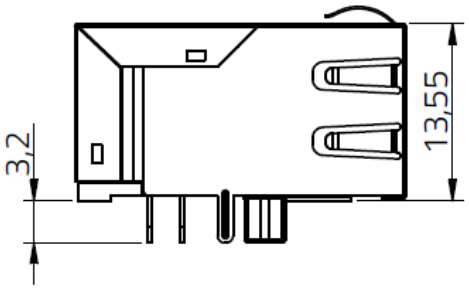
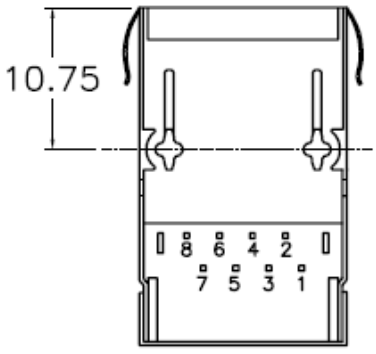	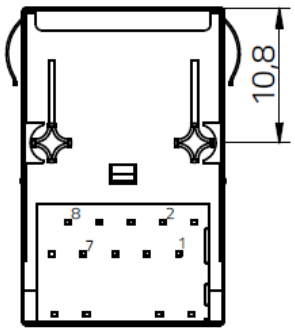

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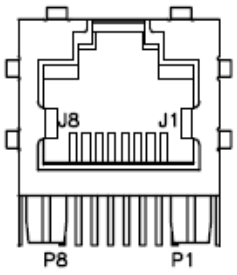
<td> 
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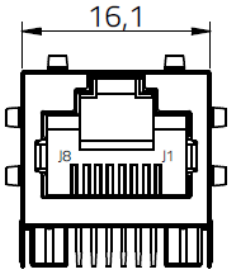
<td> 
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<tr>
<td>Dielectric Rating: 1500 Vrms</td>
<td>Dielectric Rating: 2250 VDC</td>
</tr>
<tr>
<td>Return Loss:
1-10 MHz
10-30 MHz
30-60 MHz
60-80 MHz</td>
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1-30 MHz
30-60 MHz
60-80 MHz
80-100 MHz</td>
</tr>
<tr>
<td>Common Mode Rejection:
1-100 MHz</td>
<td>Common Mode Rejection:
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30-60 MHz
60-100 MHz</td>
</tr>
<tr>
<td>Crosstalk:
1-100 MHz</td>
<td>Crosstalk:
1-60 MHz
60-100 MHz</td>
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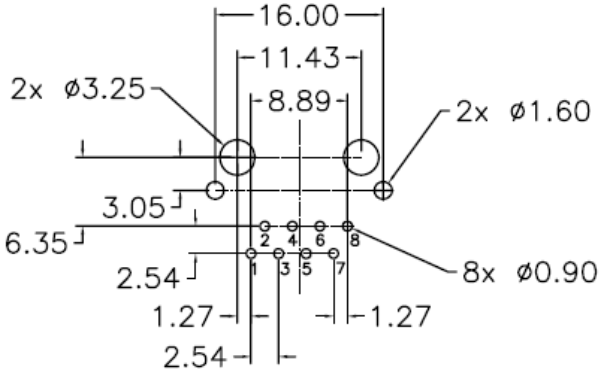
<td> 
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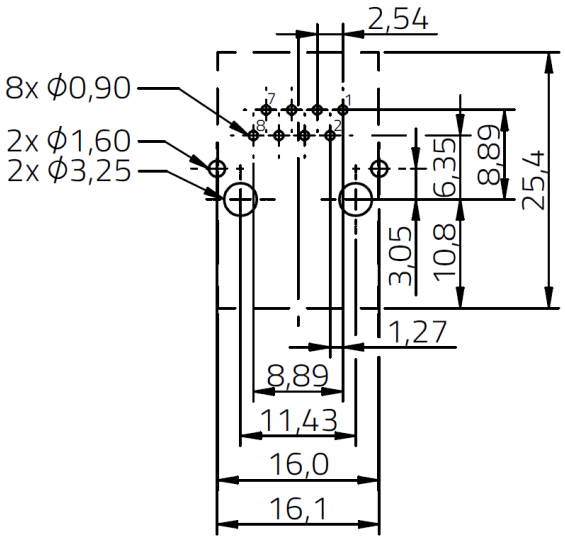
<td> 
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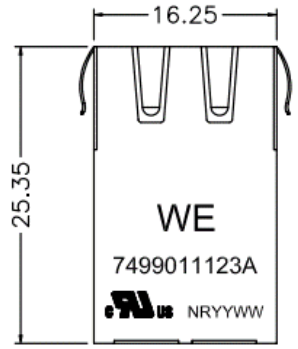	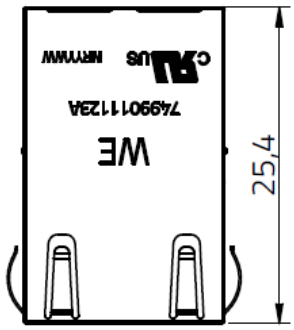
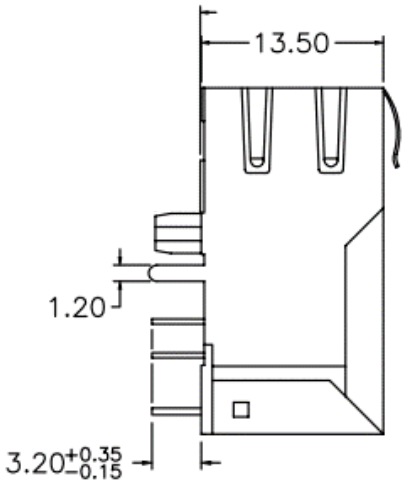	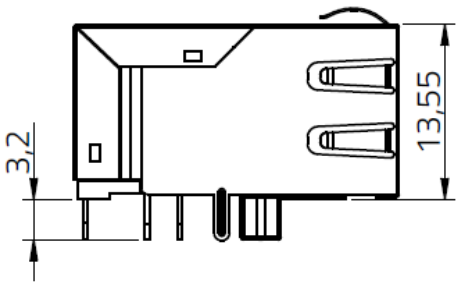
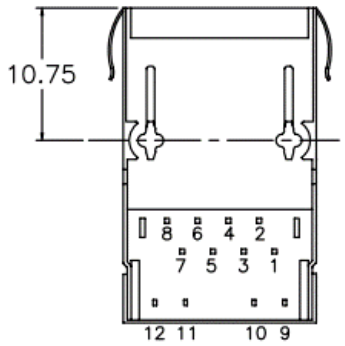	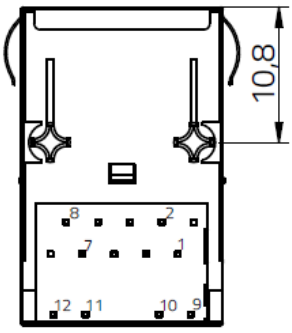

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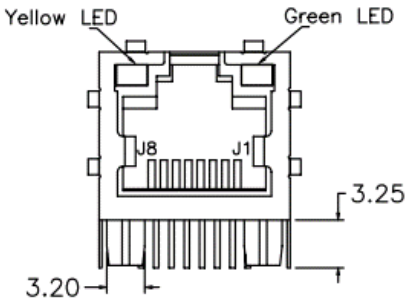
<td> 
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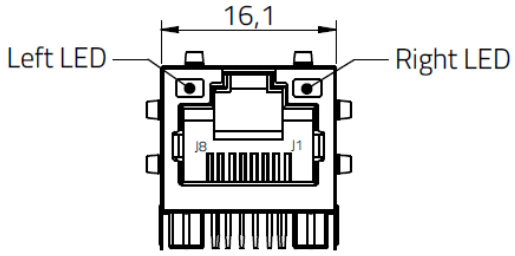
<td> 
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</tr>
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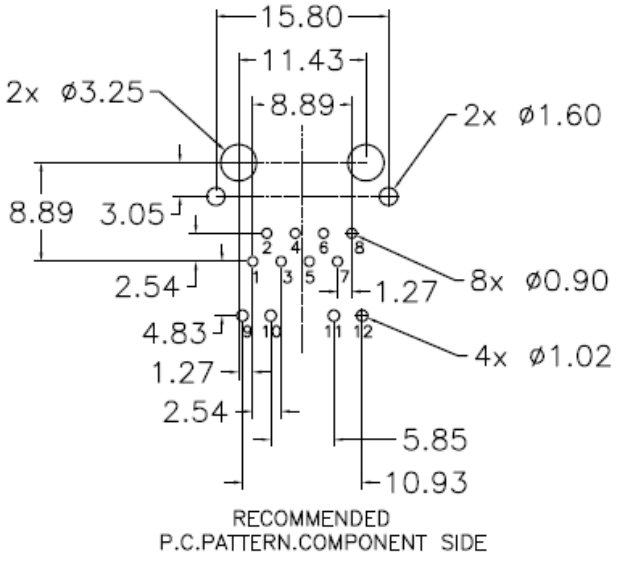
<td> 
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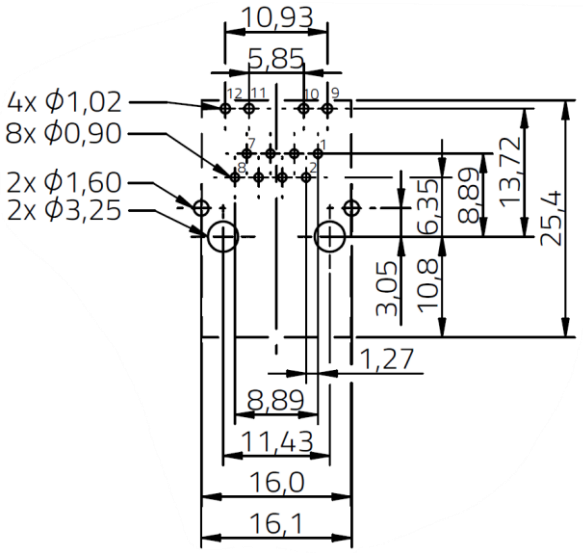
<td> 
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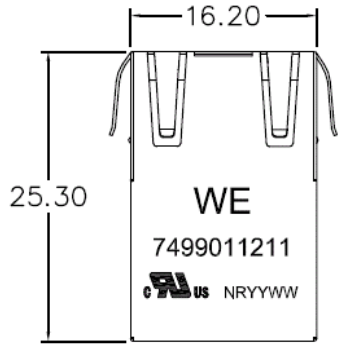	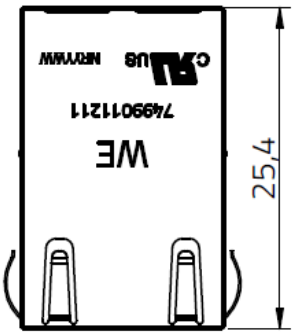
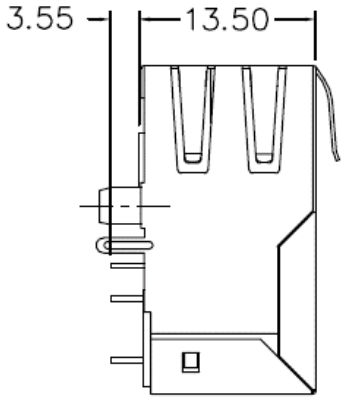	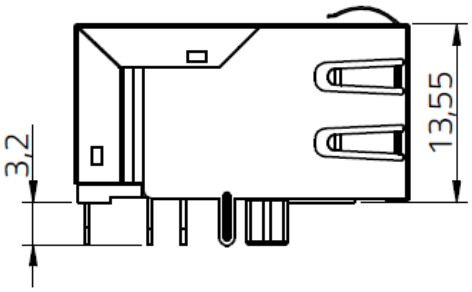
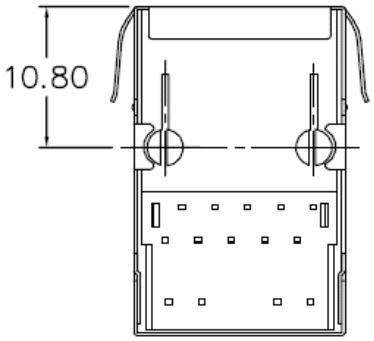	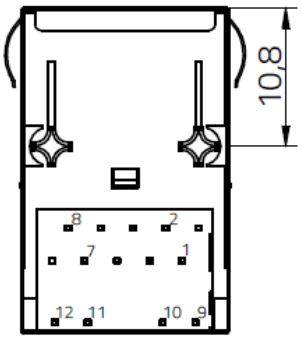

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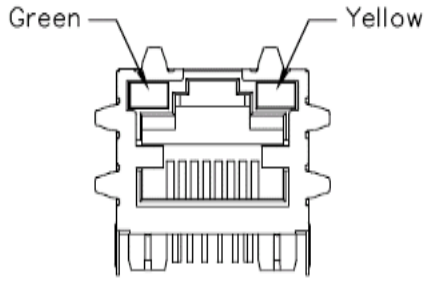
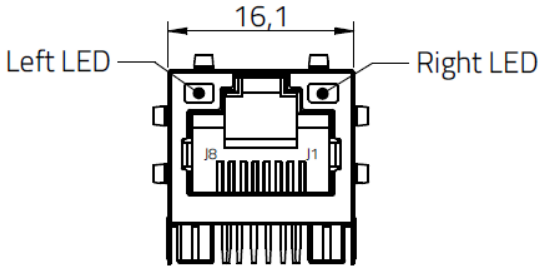
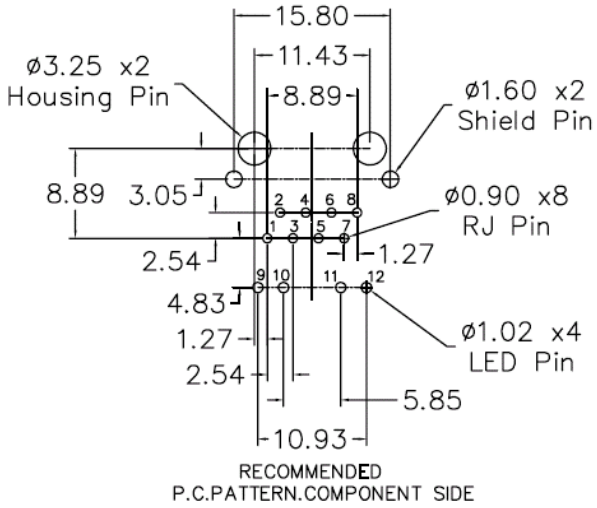
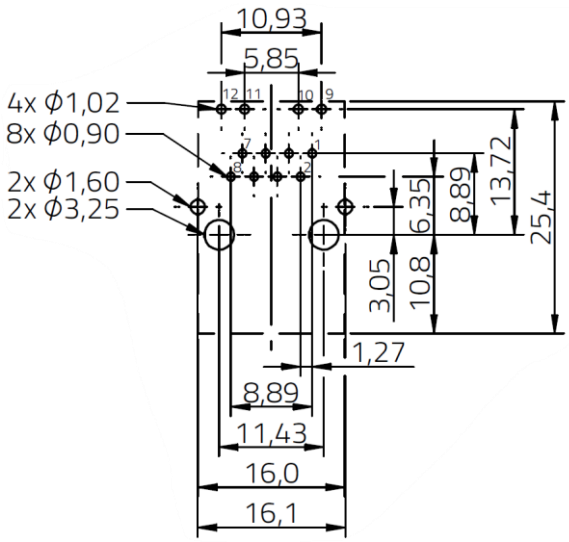
	
Dielectric Rating: 1500 Vrms	Dielectric Rating: 2250 VDC
Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz	Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz
Common Mode Rejection: 1-100 MHz	Common Mode Rejection: 1-30 MHz 30-60 MHz 60-100 MHz
Crosstalk: 1-100 MHz	Crosstalk: 1-60 MHz 60-100 MHz
	

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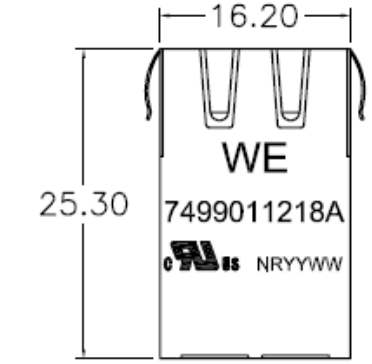	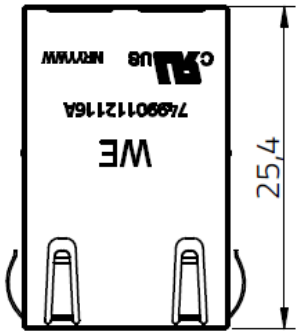
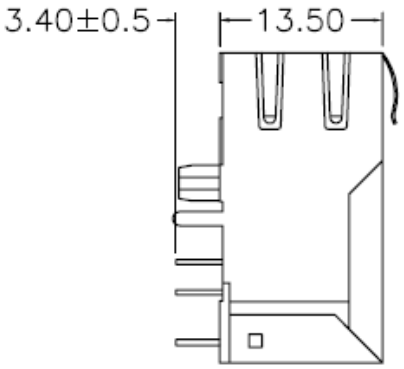	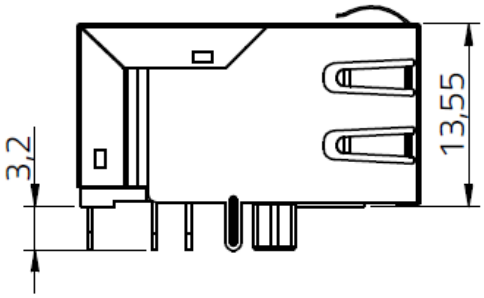
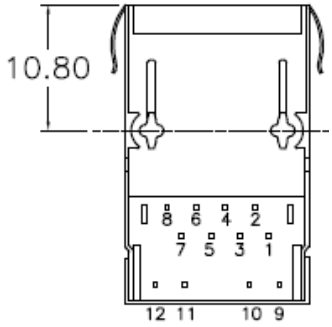	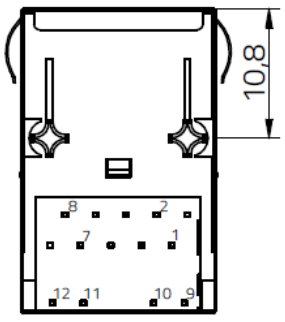
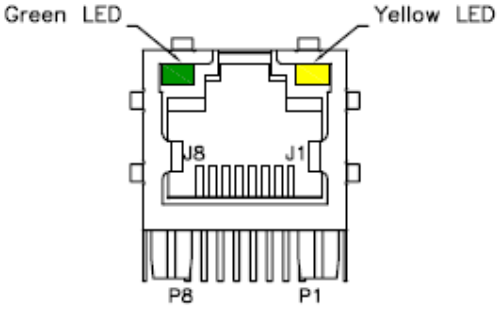	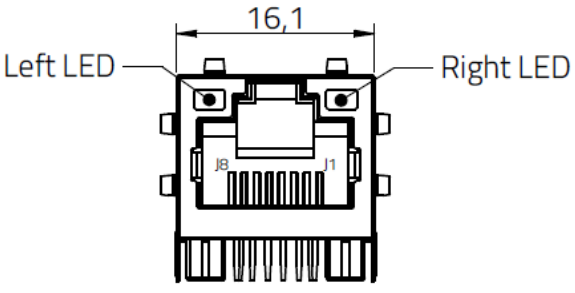

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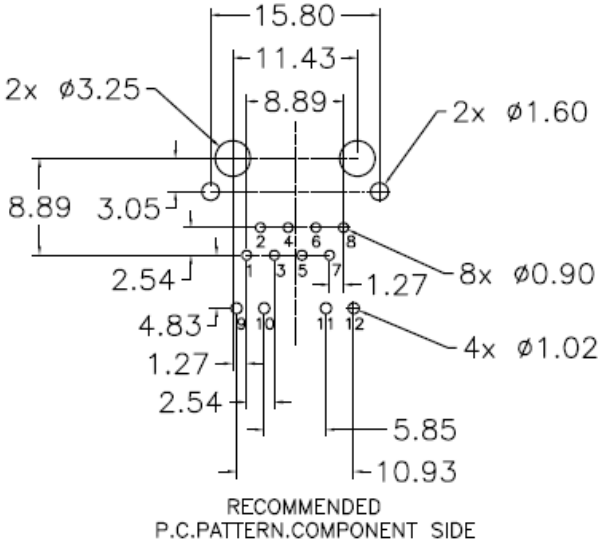
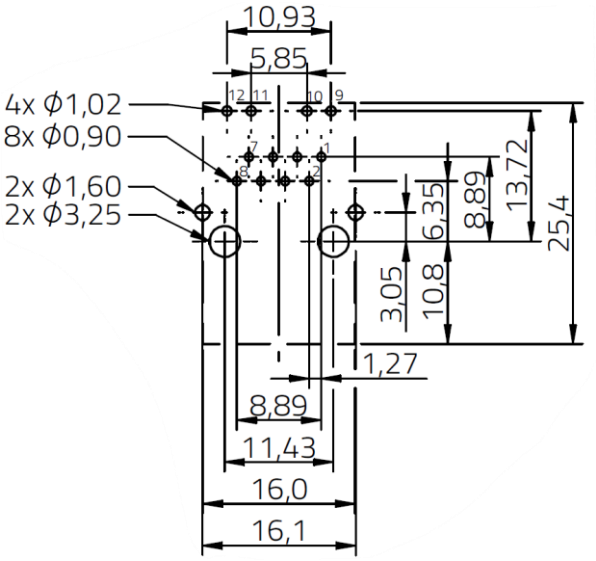
Common Mode Rejection: 1-100 MHz	Common Mode Rejection: 1-30 MHz 30-60 MHz 60-100 MHz
Crosstalk: 1-100 MHz	Crosstalk: 1-60 MHz 60-100 MHz
	

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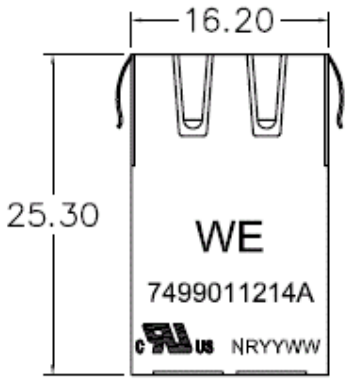	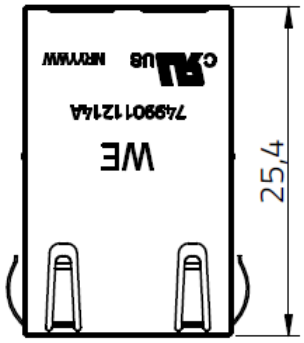
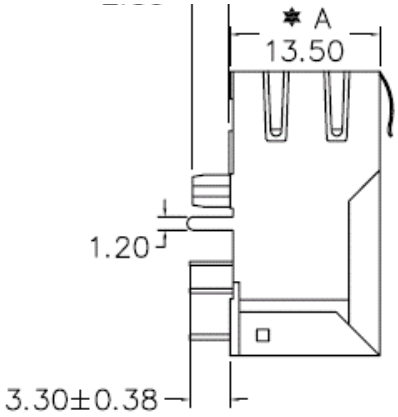	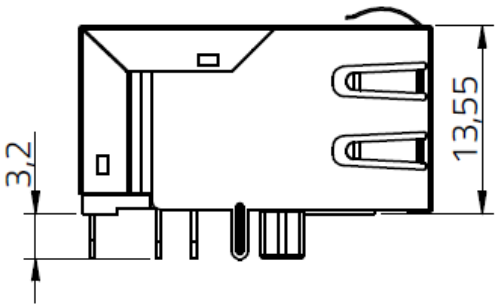
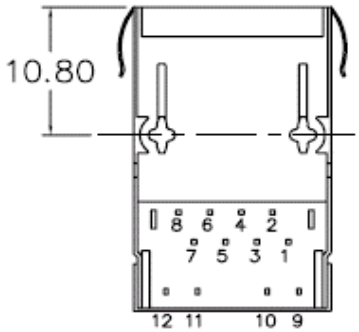	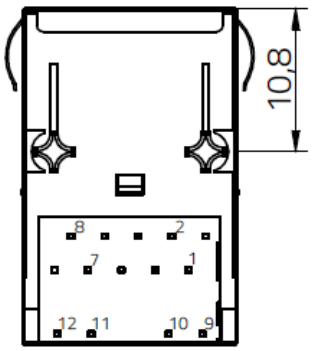

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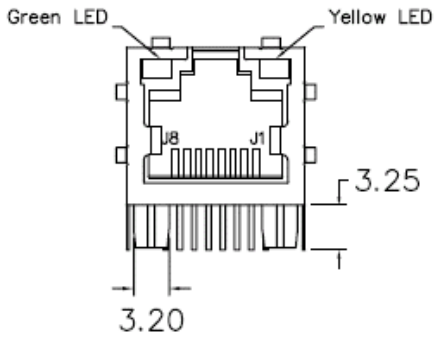	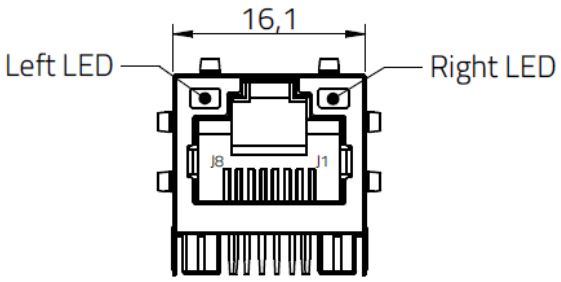
Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz	Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz
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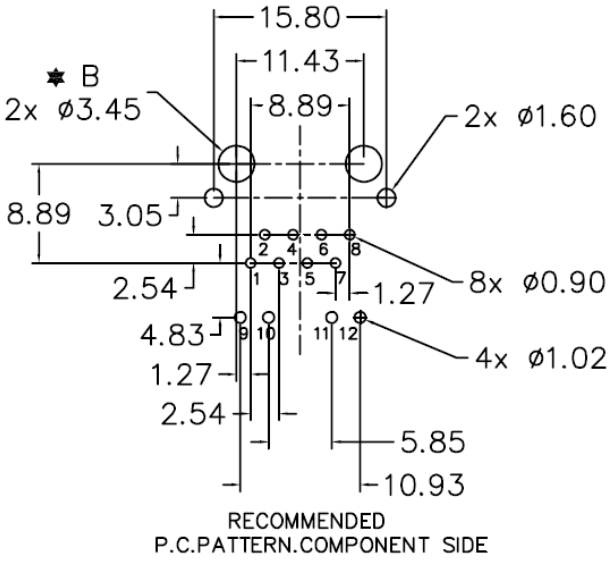	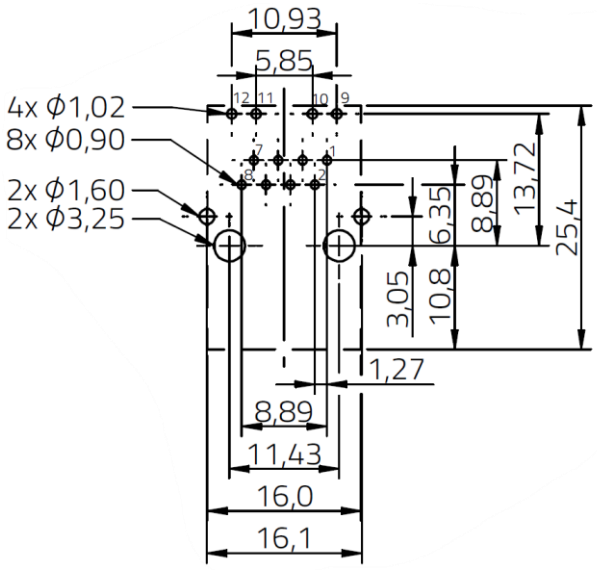

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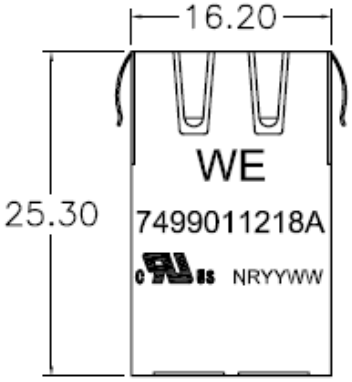	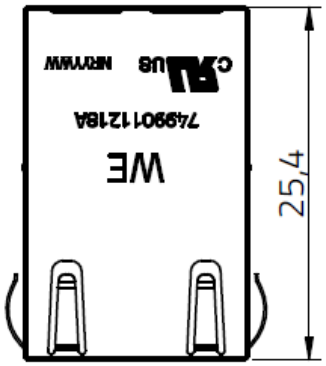
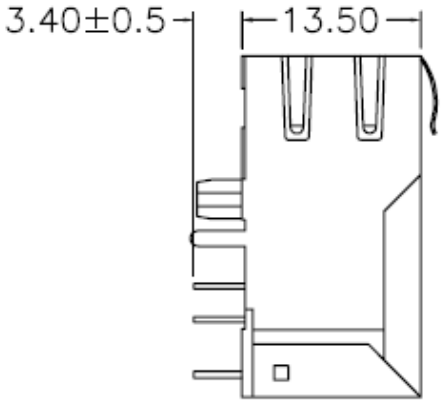	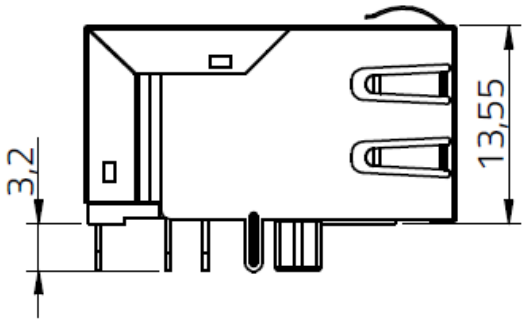
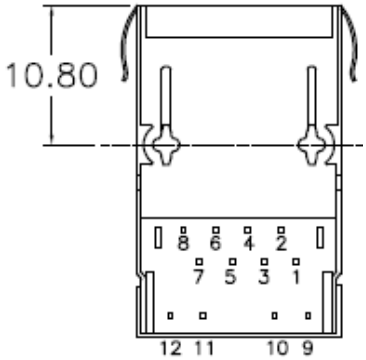	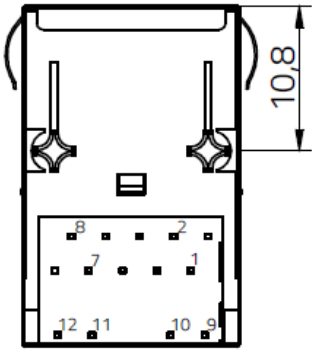

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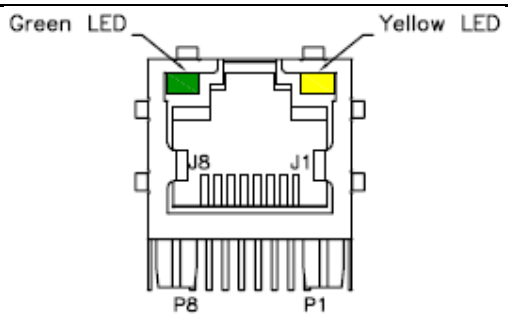	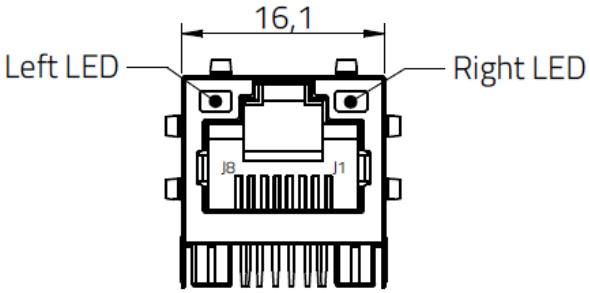
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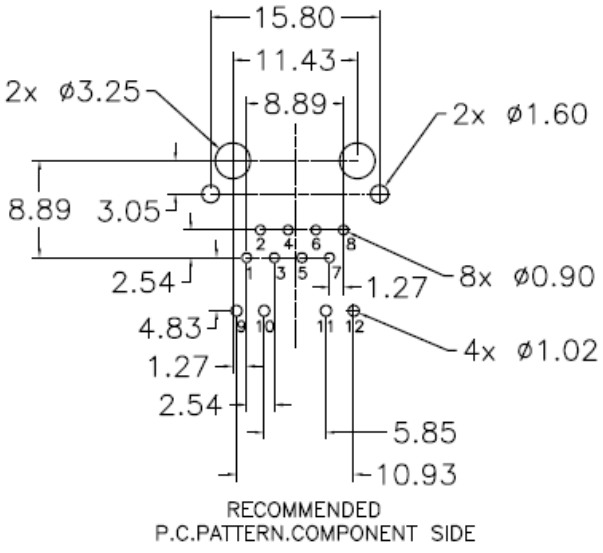	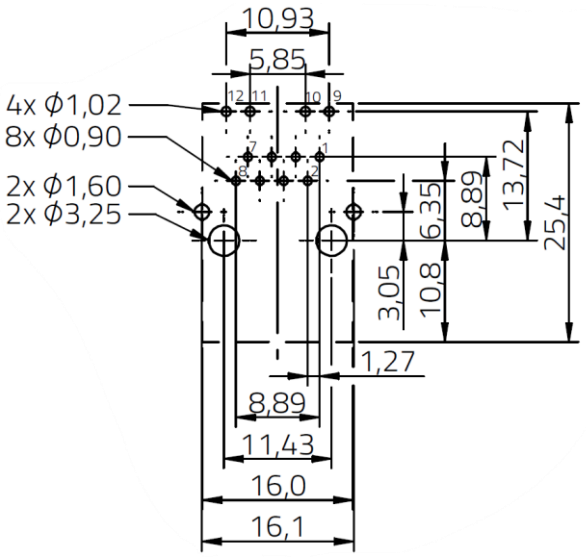

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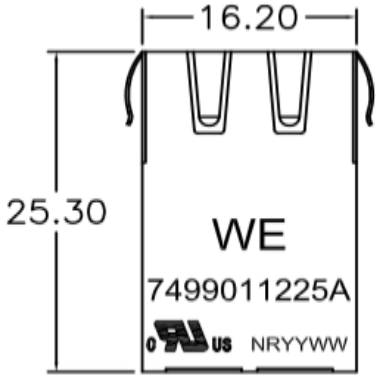	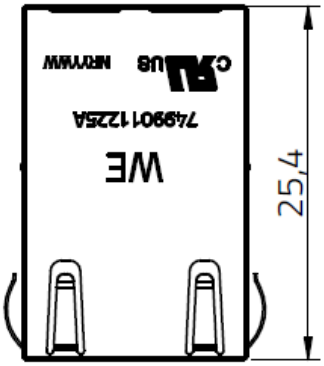
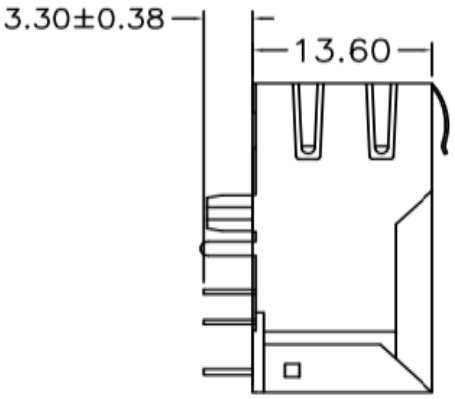	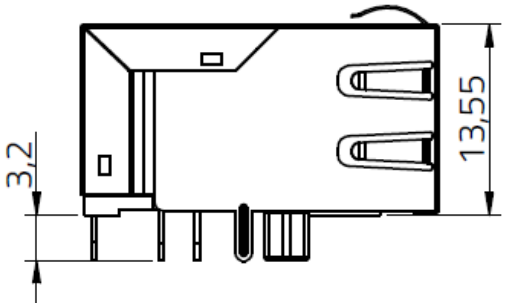
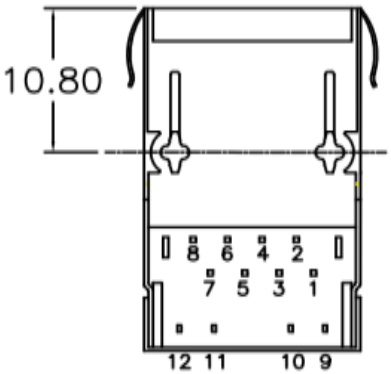	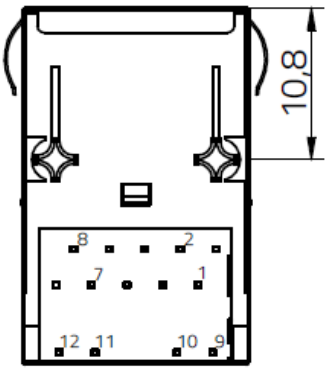

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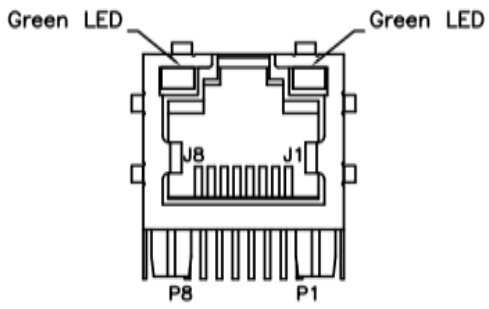
<td> 
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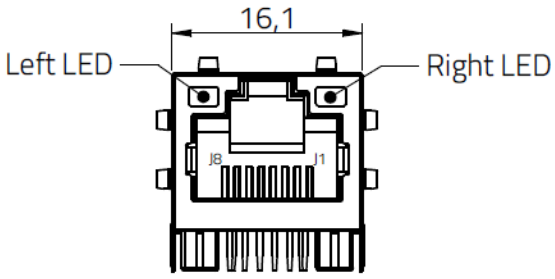
<td> 
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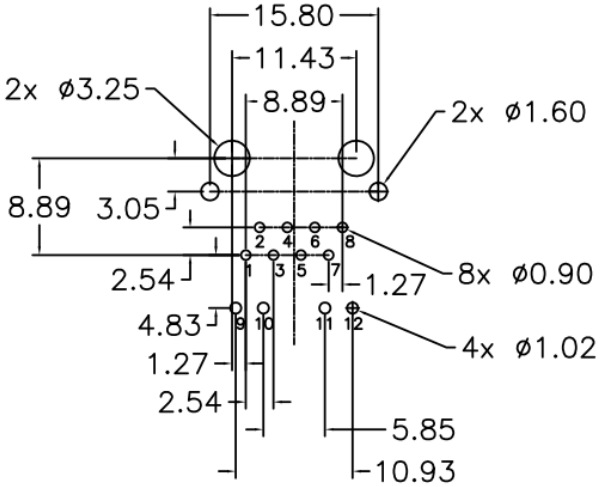
<td> 
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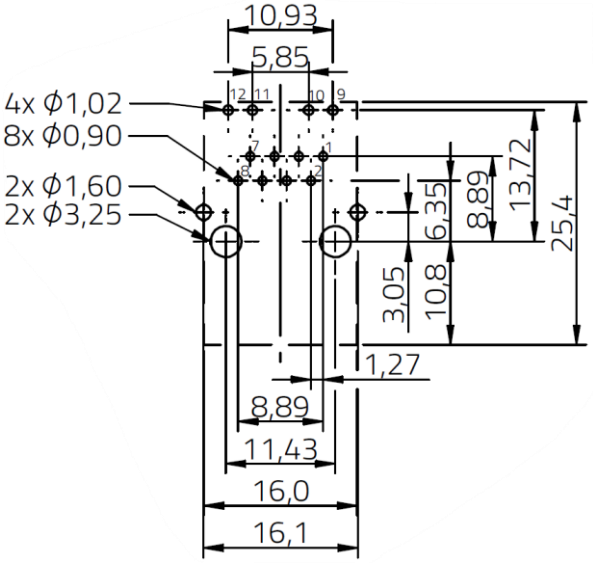
<td> 
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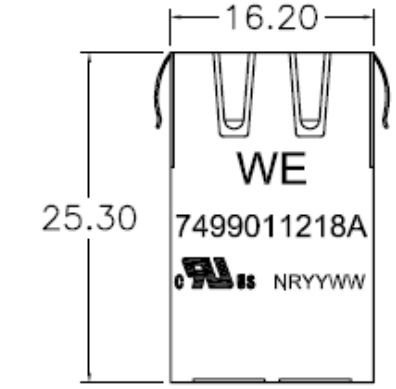	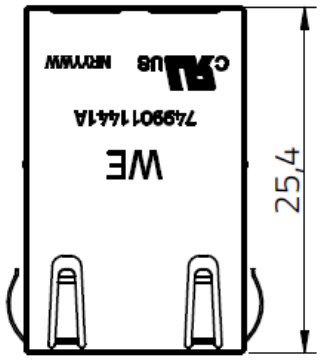
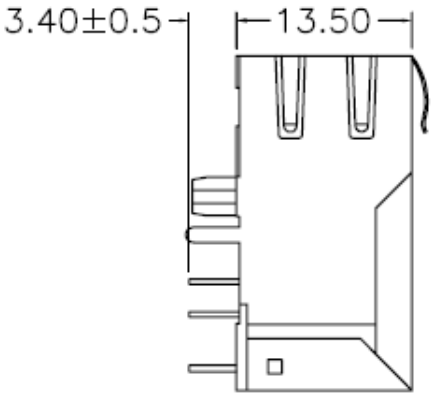	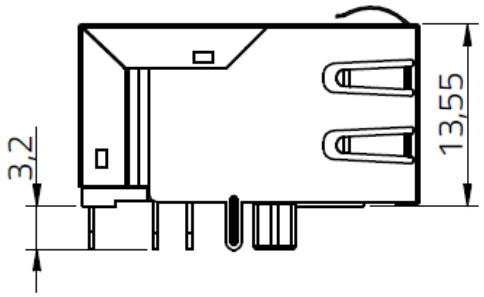
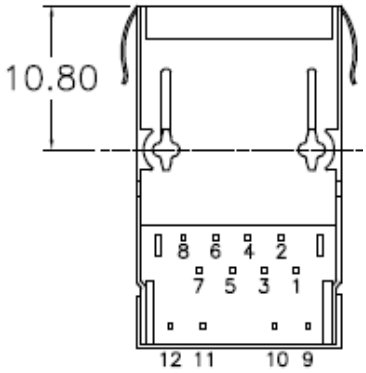	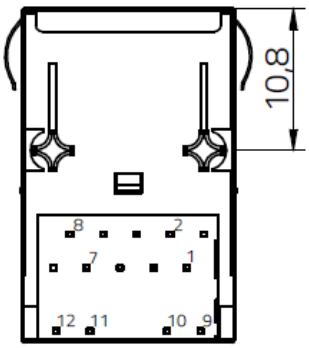

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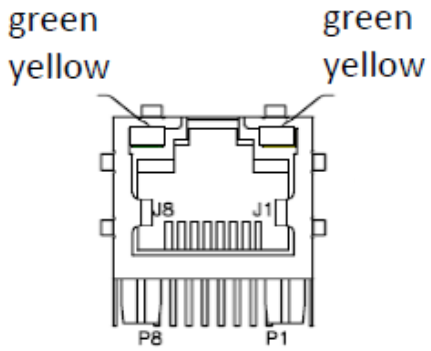	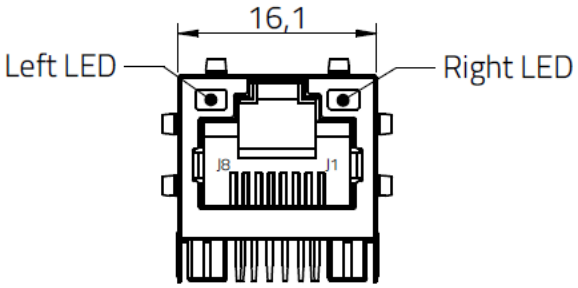
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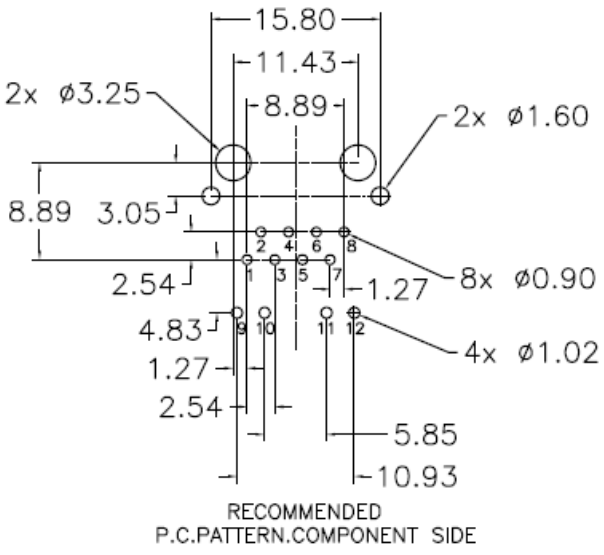
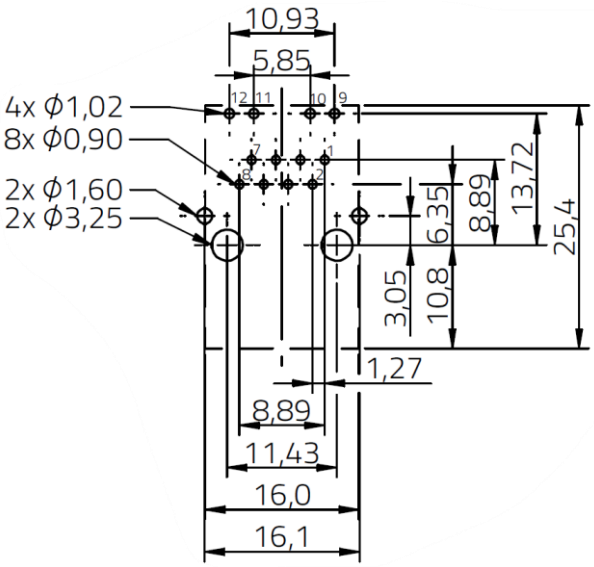
Crosstalk: 1-100 MHz	Crosstalk: 1-60 MHz 60-100 MHz
	

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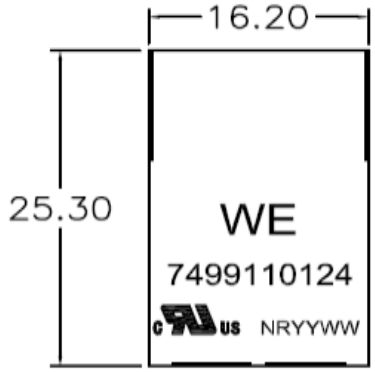	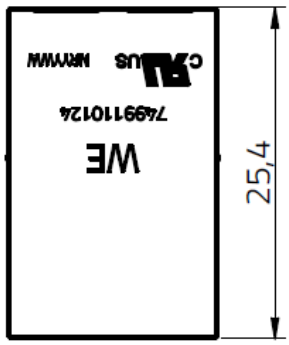
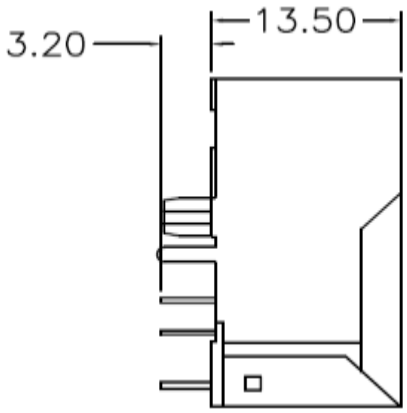	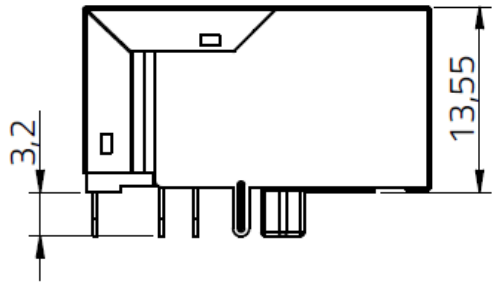
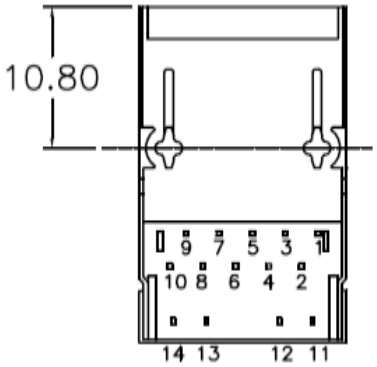	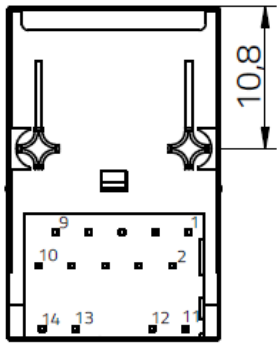

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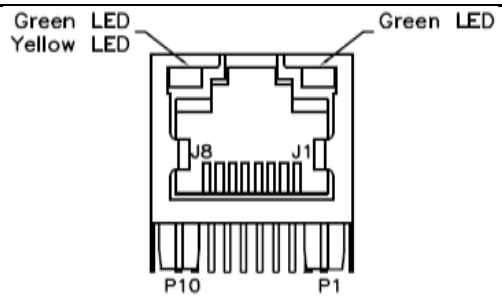	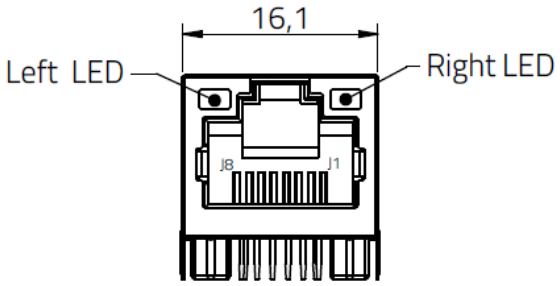
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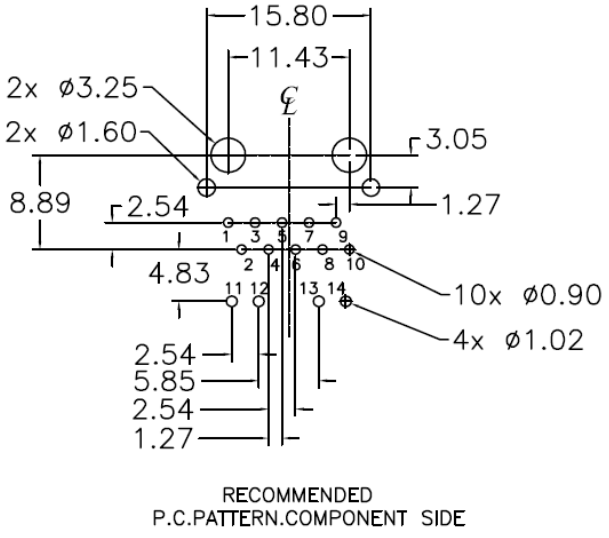	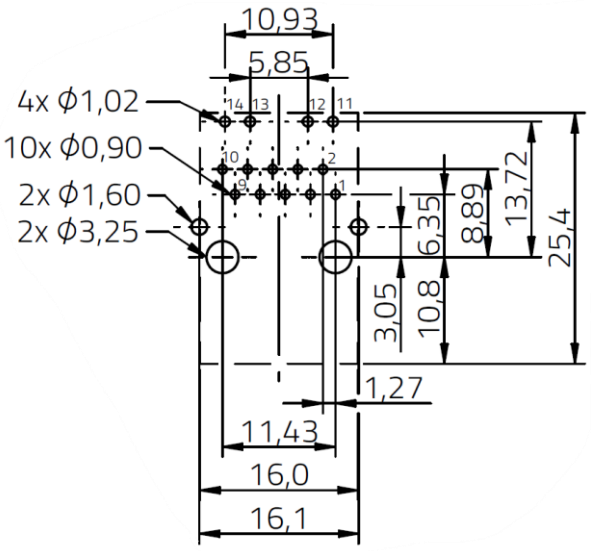

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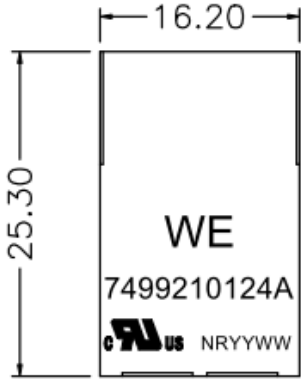	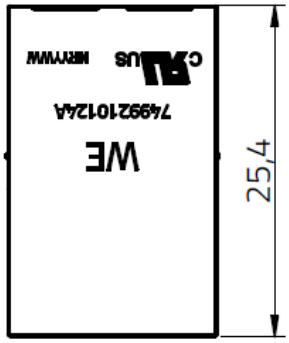
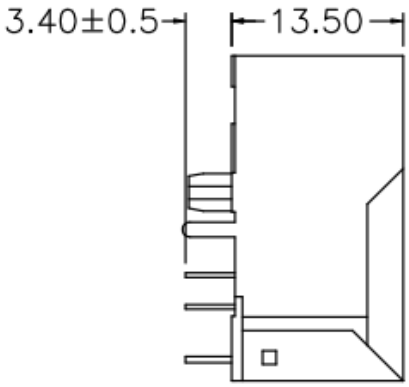	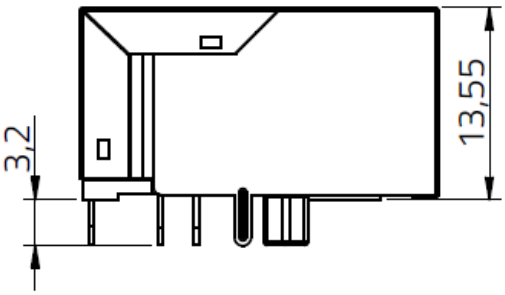
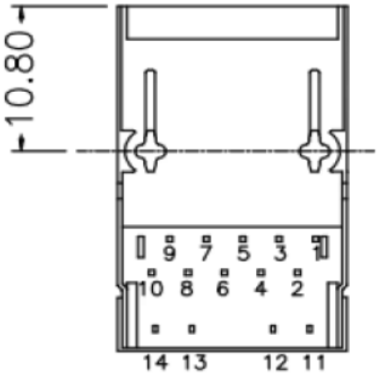	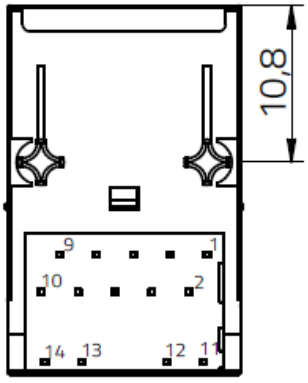

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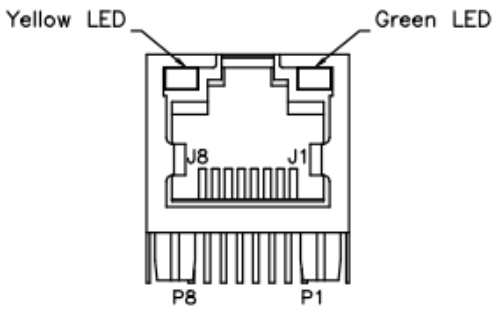
<td> 
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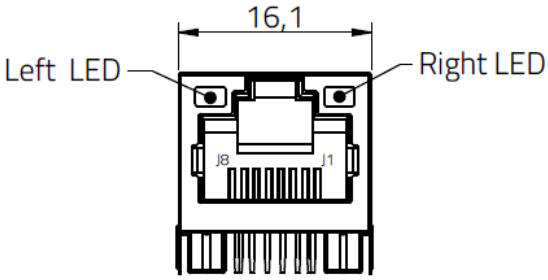
<td> 
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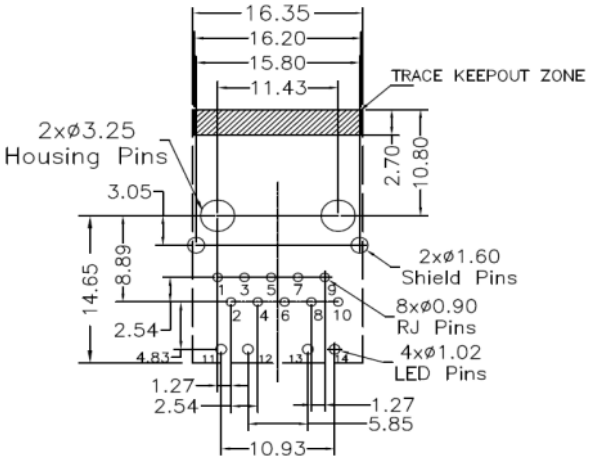
<td> 
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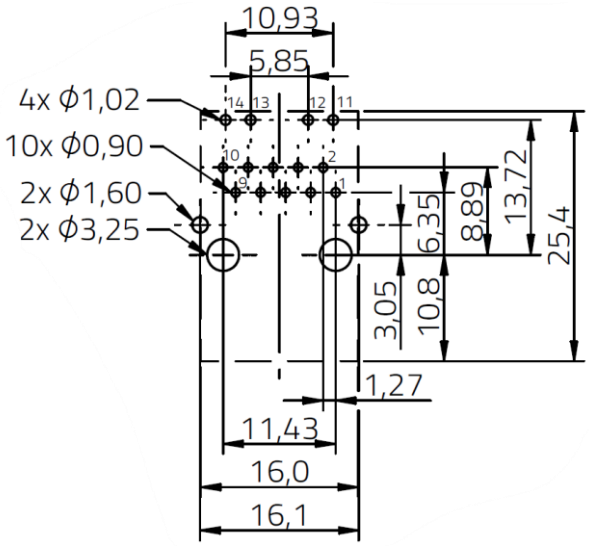
<td> 
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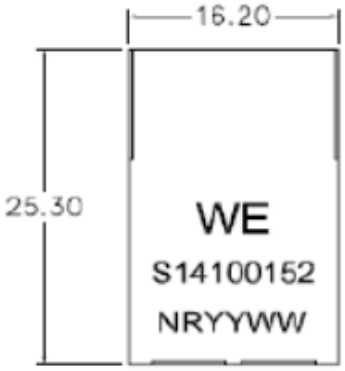	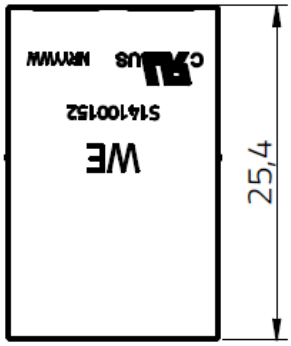
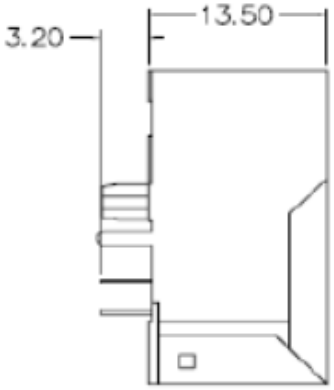	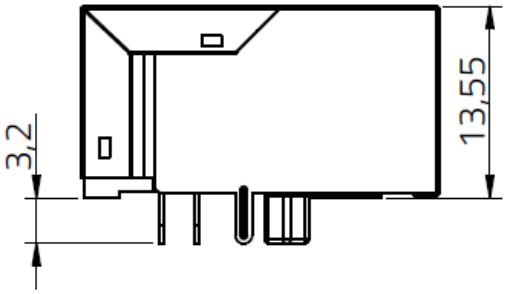
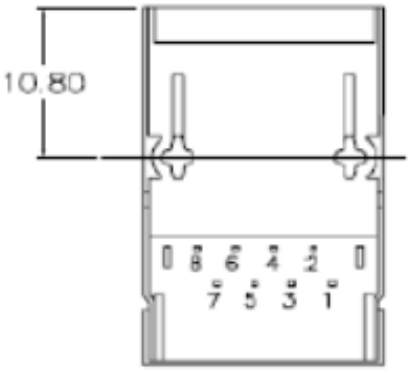	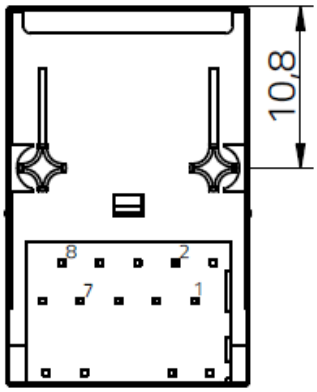

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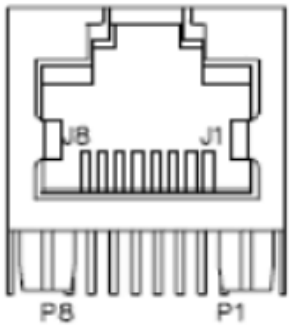
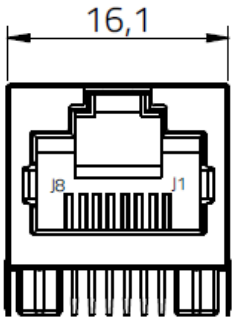
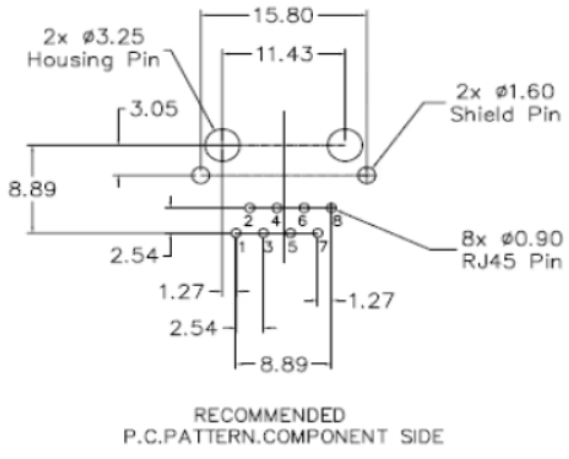
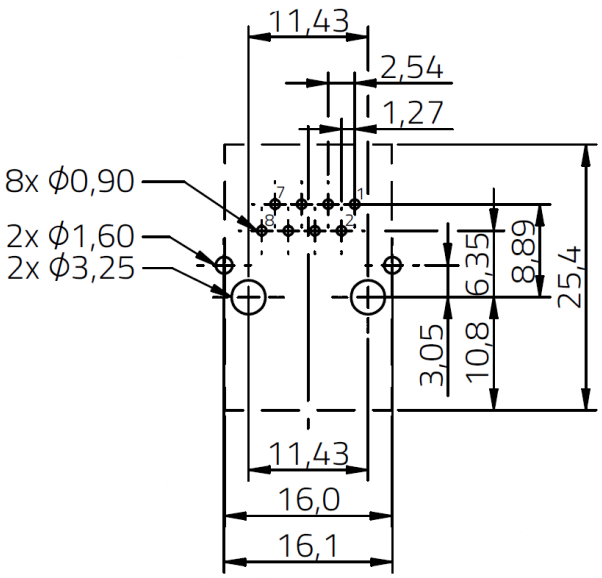
	
Dielectric Rating: 1500 Vrms	Dielectric Rating: 2250 VDC
Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz	Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz
Common Mode Rejection: 1-100 MHz	Common Mode Rejection: 1-30 MHz 30-60 MHz 60-100 MHz
Crosstalk: 1-100 MHz	Crosstalk: 1-60 MHz 60-100 MHz
	

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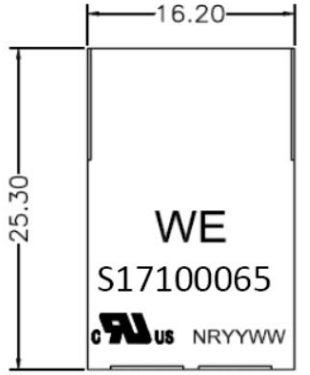	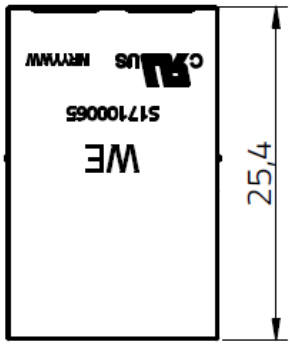
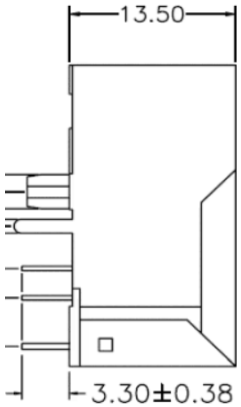	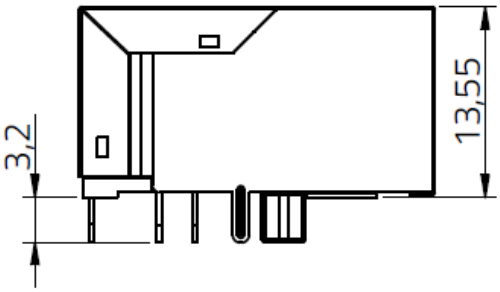
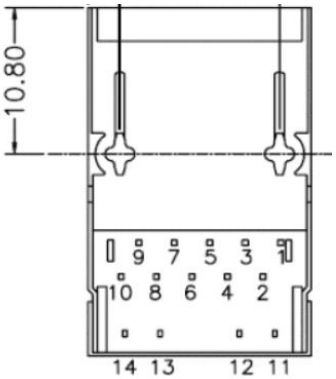	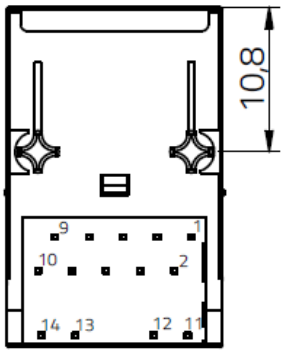

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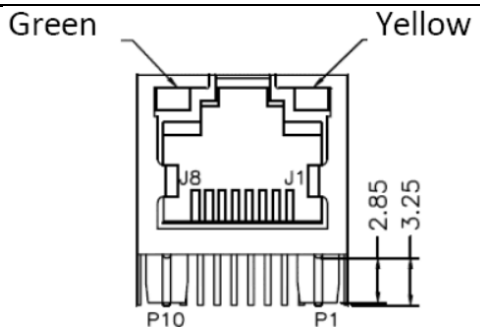
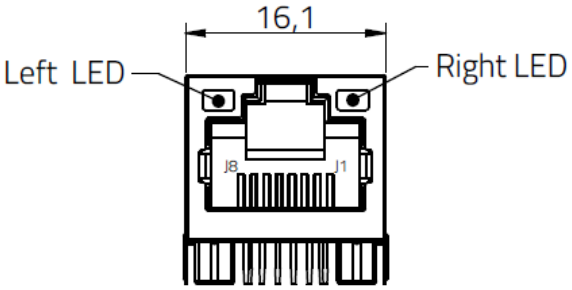
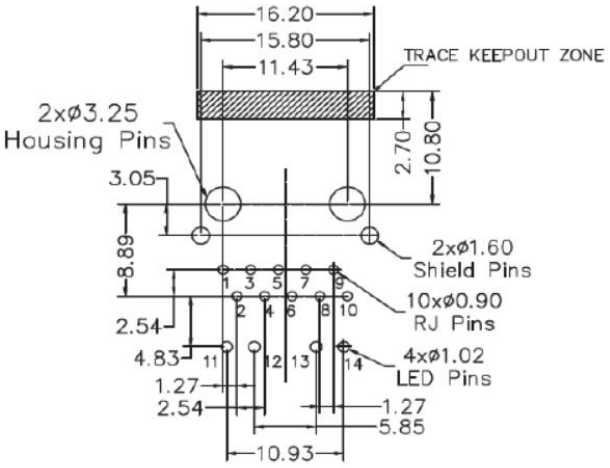
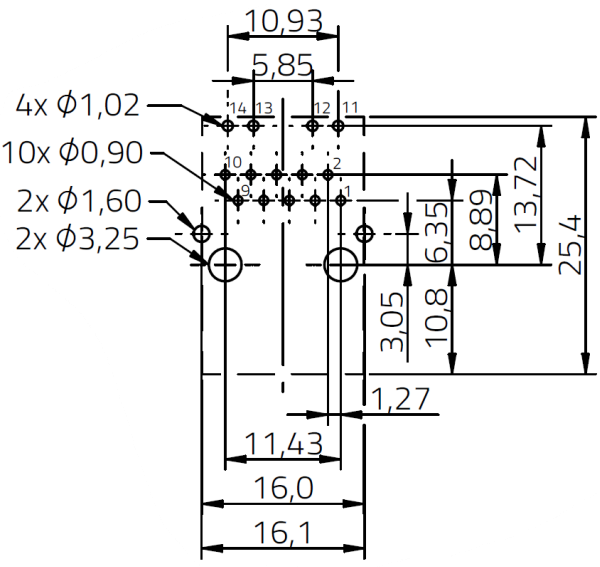
	
Dielectric Rating: 1500 Vrms	Dielectric Rating: 2250 VDC
Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz	Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz
Common Mode Rejection: 1-100 MHz	Common Mode Rejection: 1-30 MHz 30-60 MHz 60-100 MHz
Crosstalk: 1-100 MHz	Crosstalk: 1-60 MHz 60-100 MHz
	

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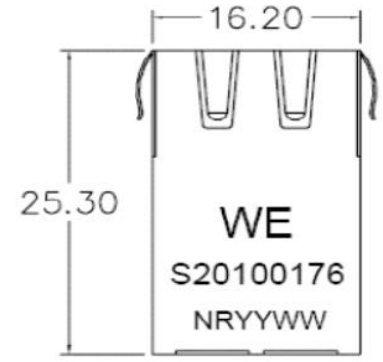	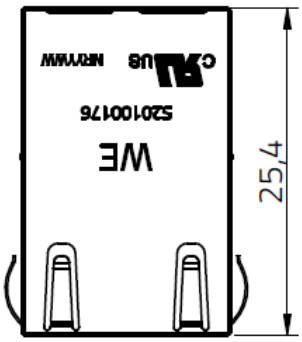
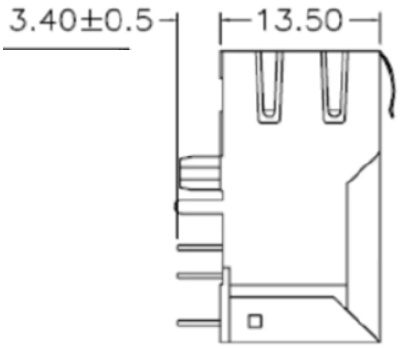	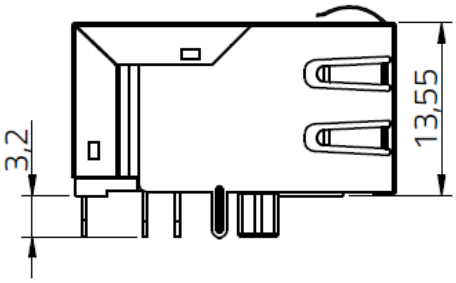
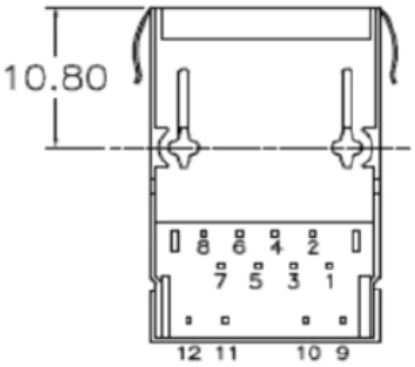	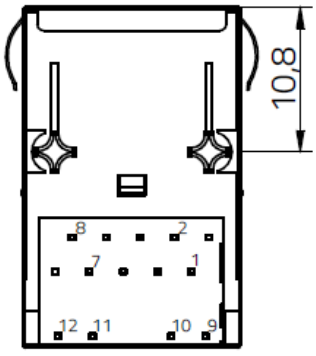
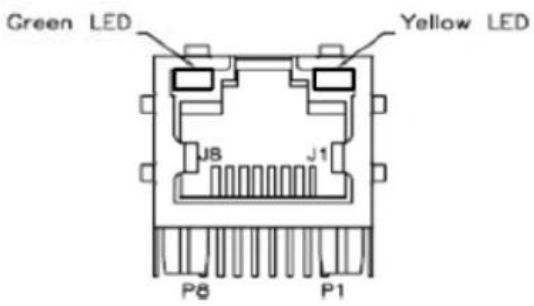	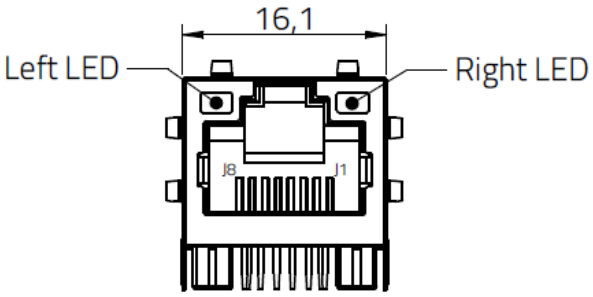

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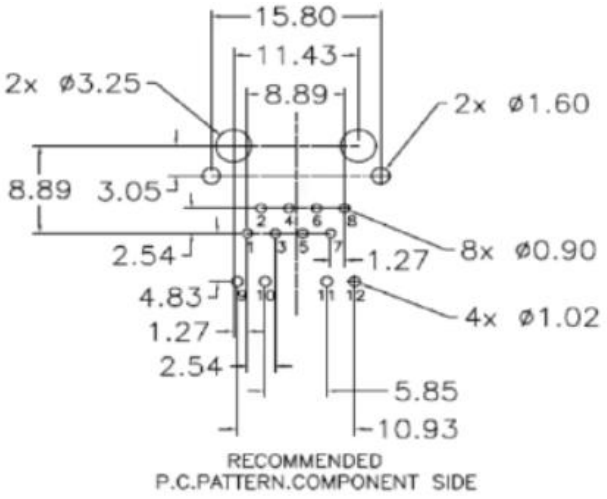
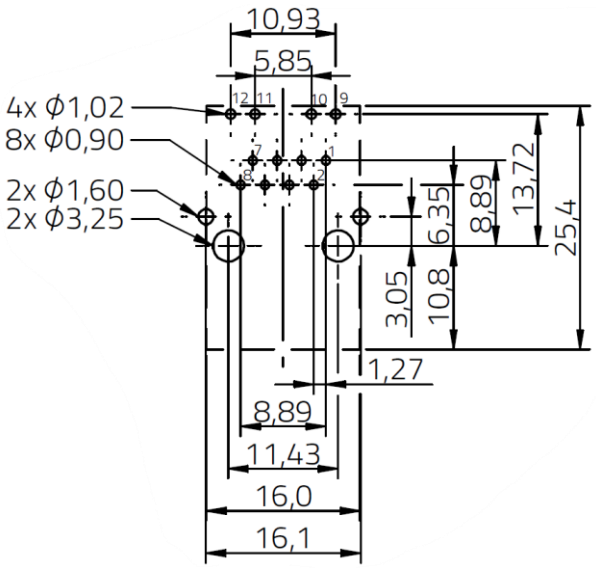
Dielectric Rating: 1500 Vrms	Dielectric Rating: 2250 VDC
Return Loss: 1-10 MHz 10-30 MHz 30-60 MHz 60-80 MHz	Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz
Common Mode Rejection: 1-100 MHz	Common Mode Rejection: 1-30 MHz 30-60 MHz 60-100 MHz
Crosstalk: 1-100 MHz	Crosstalk: 1-60 MHz 60-100 MHz
	

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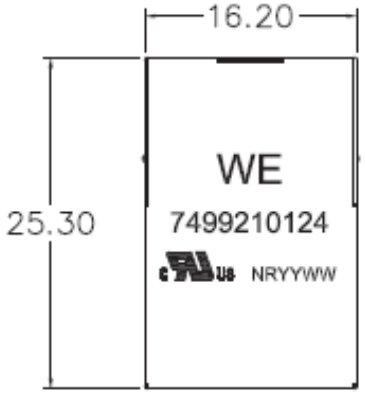	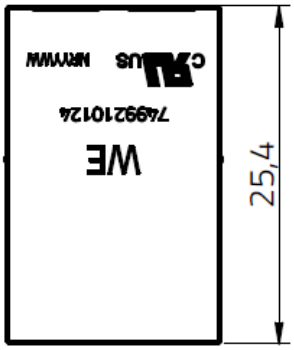
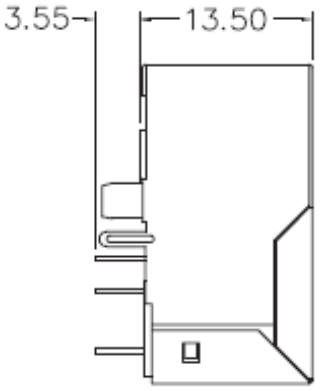	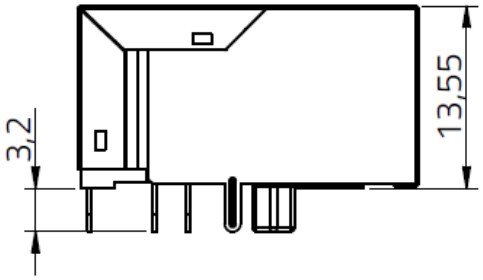
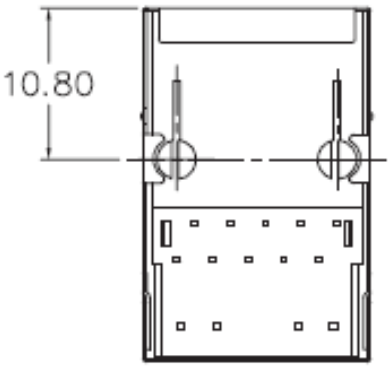	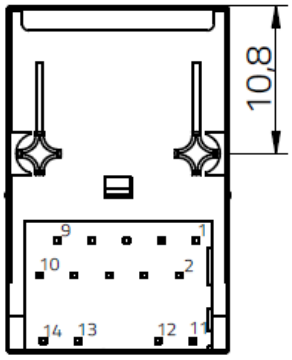

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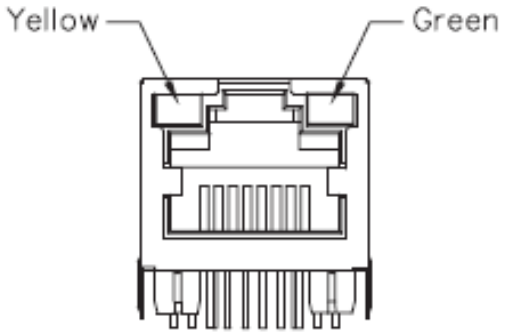	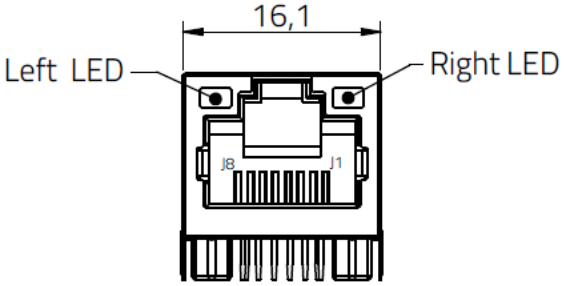
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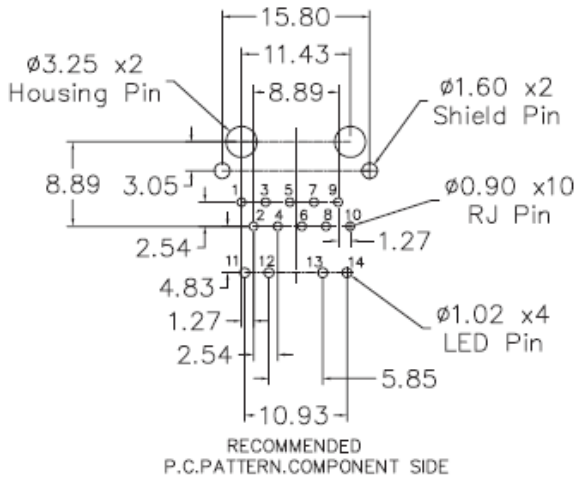
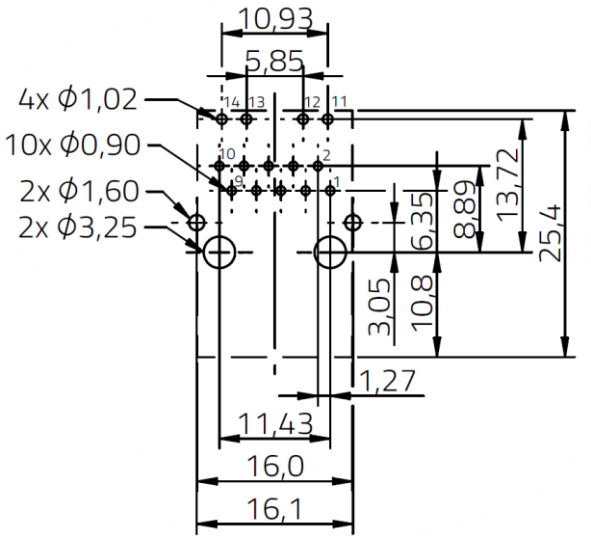
Crosstalk: 1-100 MHz	Crosstalk: 1-60 MHz 60-100 MHz
	

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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