



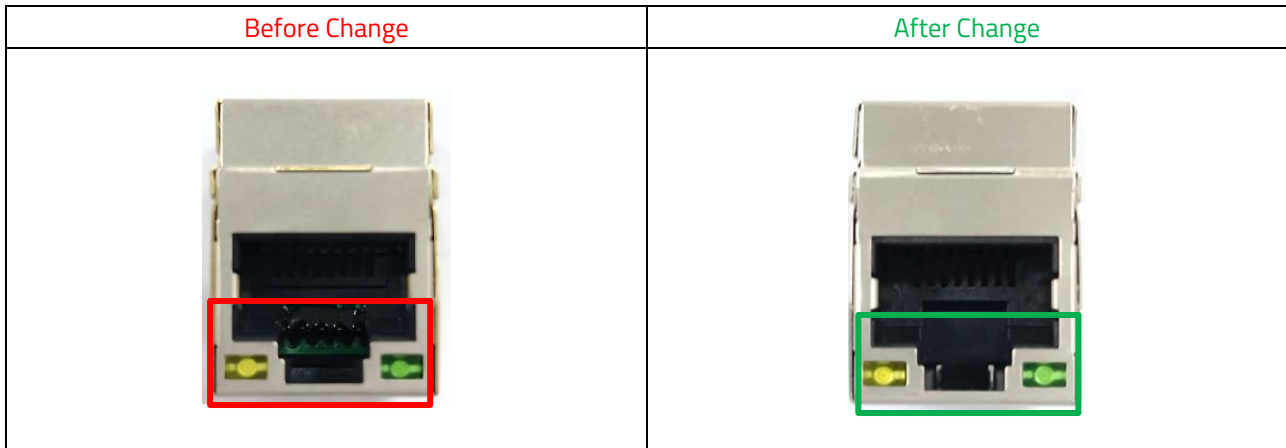
Product / Process Change Notification (PCN)	
<input checked="" type="checkbox"/> Major Change <input type="checkbox"/> Minor Change	
PCN Number: PCN_UtRJ45LAN_20241120 Affected Series: WE-RJ45LAN Affected Order Codes: 7499010122, 7499010122A, 7499010126, 7499010126A, 7499010219A, 7499110120, 7499110120A, 7499210123, 7499210123A, 7499210210, 7499210210A, S20100170 PCN Date: 2024-08-20 (YYYY-MM-DD) Effective Date: 2024-11-20 (YYYY-MM-DD)	Change Category: <input type="checkbox"/> Equipment/Location <input type="checkbox"/> General Data <input checked="" type="checkbox"/> Material <input checked="" type="checkbox"/> Process <input checked="" type="checkbox"/> Product Design <input type="checkbox"/> Shipping/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> Software
Contact: Product Management Phone: +49 (0) 7942 - 945 5001 Fax: +49 (0) 7942 - 945 5179 E-Mail: pcn.eisos@we-online.com	Datasheet Change: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Attachment: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Description of Change: <p>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.</p> <p>Additional Würth Elektronik will change to new data sheet format, correct datasheet mismatch & change dimensions from max-value to tolerance-value.</p> <p>There will be no change in function, quality or reliability of the product.</p> <p>The new revision of the affected order codes will be sent out after the previous revision is out of stock (according to FIFO - first-in, first-out).</p>	

Details of Change:

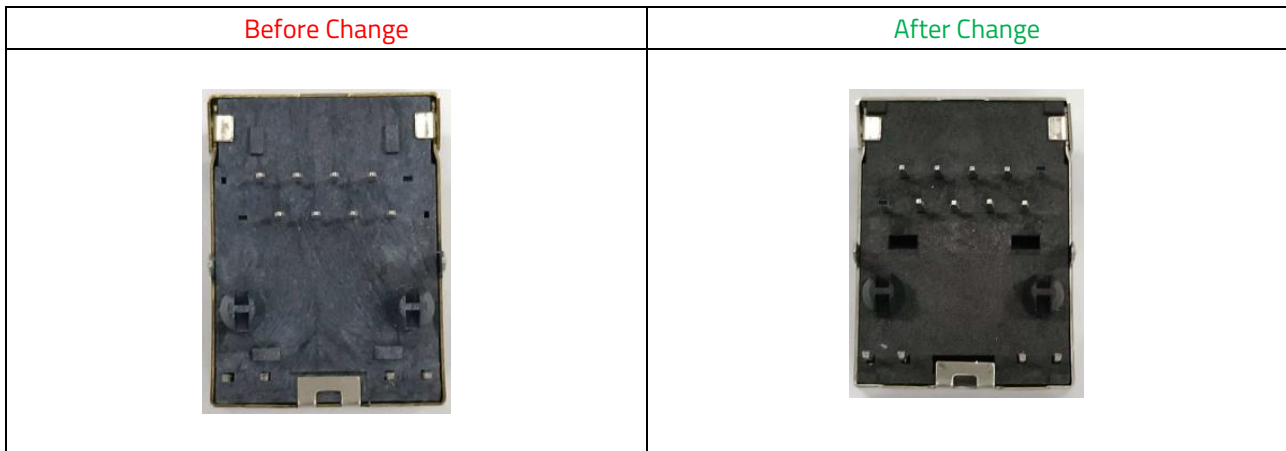
1. New spot-welding design change

Affected order codes: all mentioned above

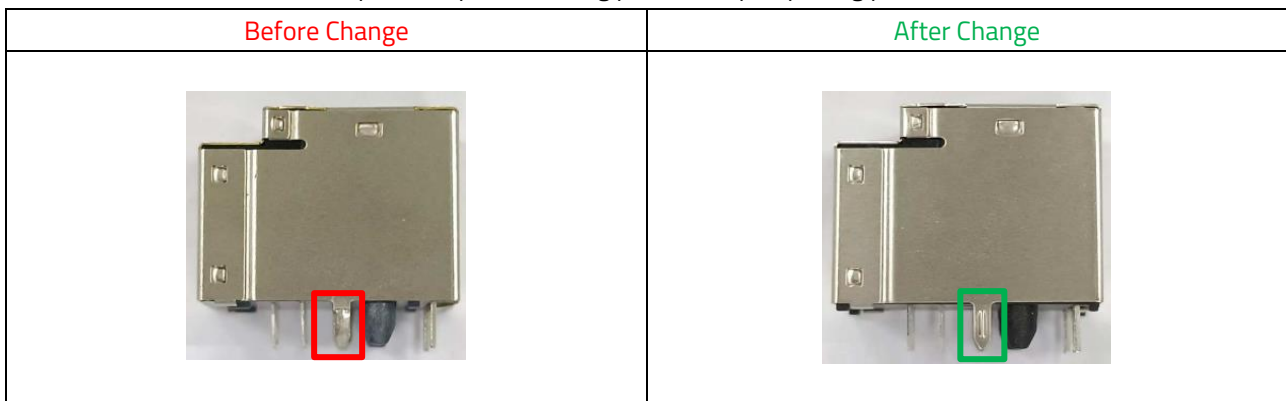
a. Closing the plastic hole:



b. bottom view example:



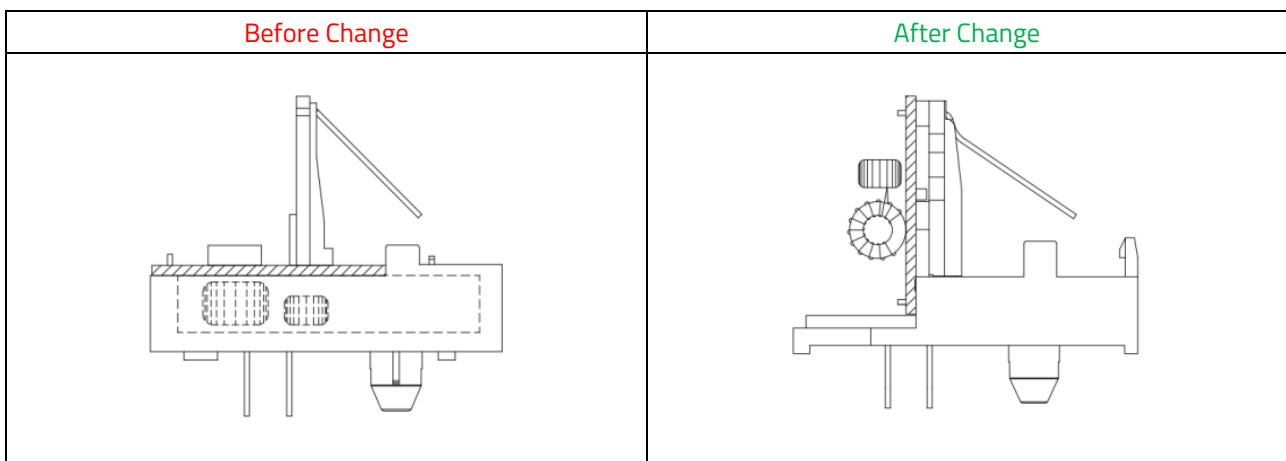
c. Metal shield's pin from pre-soldering process to pre-plating process:



d. Change of material housing: from PBT to PA9T & change of material insert: from LCP to PA9T:



e. Improved positioning of the PCB:



2. New spot-welding design change

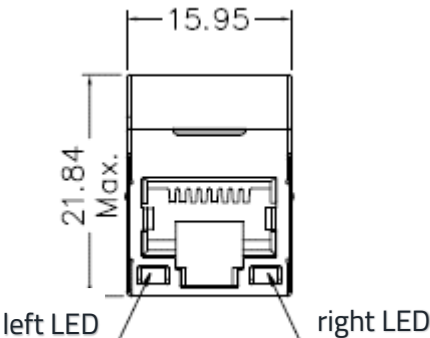
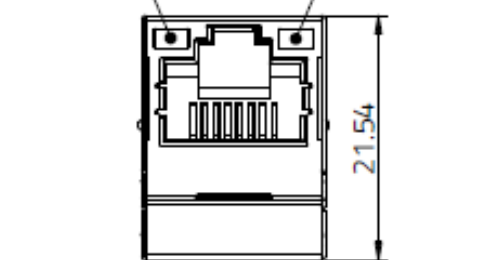


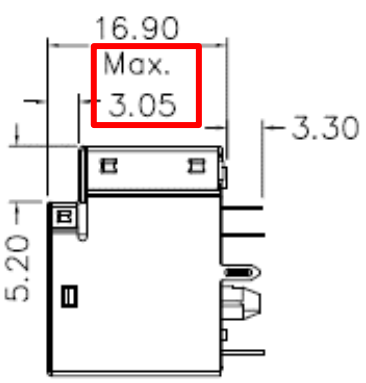
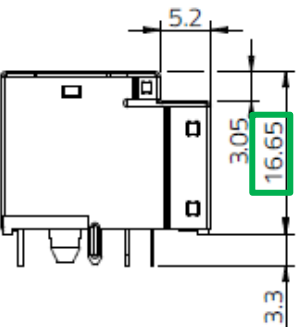
Affected order codes: 7499110120, 7499010122, 7499010126

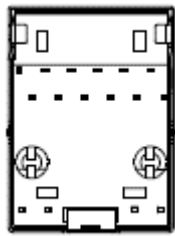
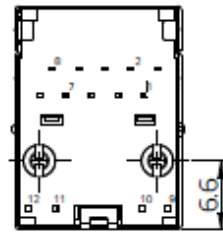
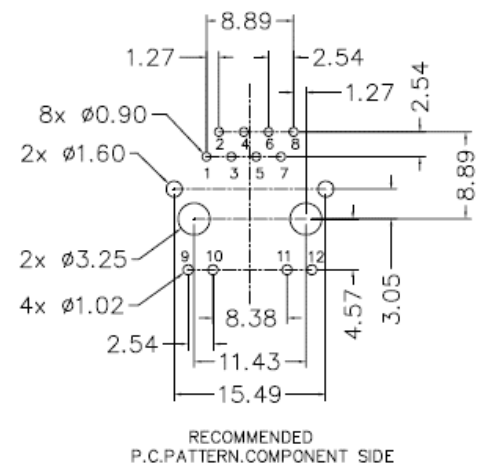
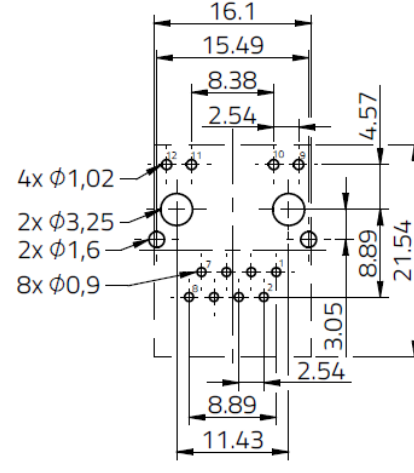
- a. 1000 pF Capacitor change from THT type to SMT type:

Before Change	After Change
	

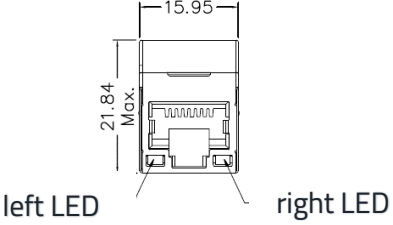
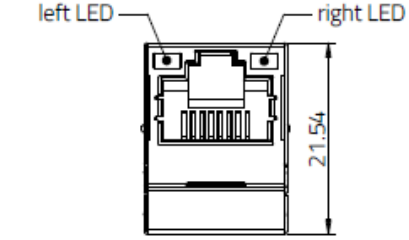


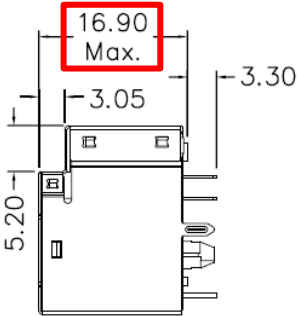
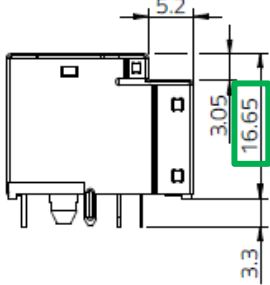
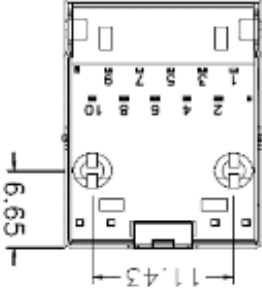
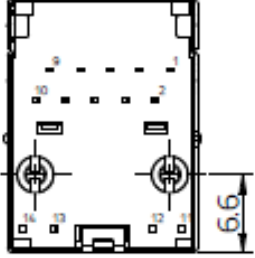
3. Datasheet corrections

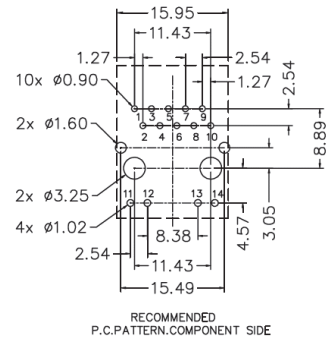
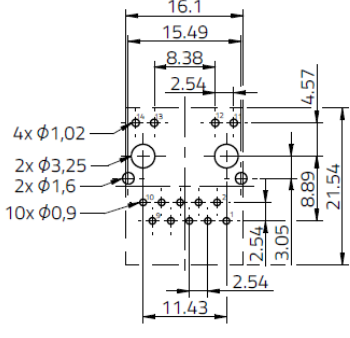
Affected order code: 7499010126

Before correction	After correction
 <p>Dimensions: 15.95 (width), 21.84 Max. (height). Labels: left LED, right LED.</p>	<p>definition of left and right LED switched</p>  <p>Labels: left LED, right LED. Dimension: 21.54 (height).</p>
 <p>Labels: WE, 7499010126, NRYYYW.</p>	 <p>Dimension: 16.1 (width). Labels: WE, 7499010126, NRYYYW.</p>
 <p>Dimensions: 16.90 Max. (width), 3.05 (width), 3.30 (height), 5.20 (height).</p>	 <p>Dimensions: 5.2 (width), 3.05 (height), 16.65 (width), 3.3 (height).</p>

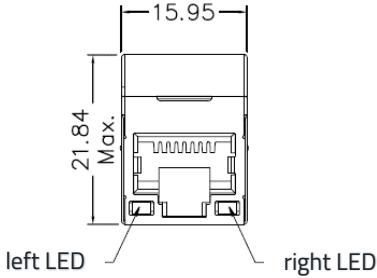
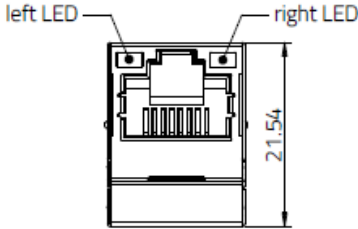


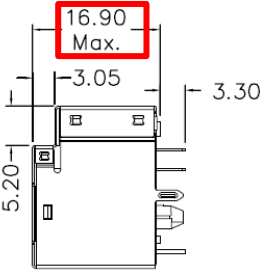
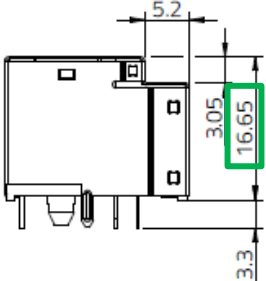
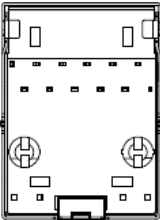
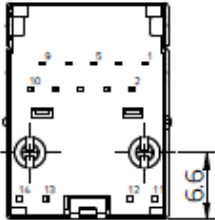
	
	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Common Mode Rejection Ratio: 1-100 MHz</p>	<p>Common Mode Rejection Ratio: 1-30 MHz 30-60 MHz 60-100 MHz</p>

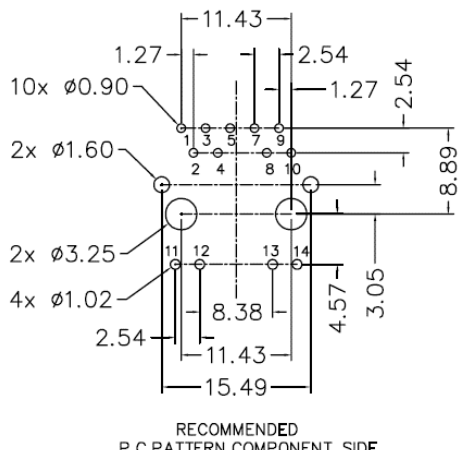
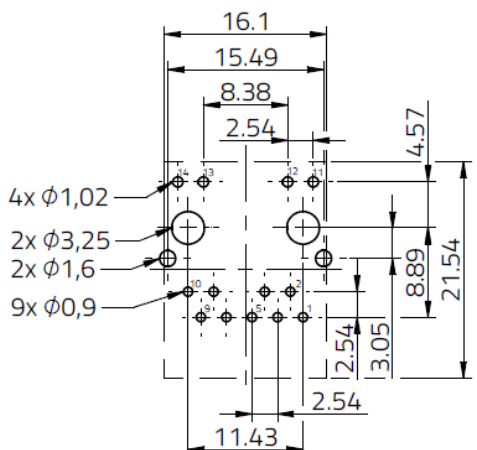
Affected order code: 7499210123

Before correction	After correction
<p style="text-align: center;">Before correction</p> 	<p style="text-align: center;">After correction</p> <p style="text-align: center;">definition of left and right LED switched</p> 
	
	
	

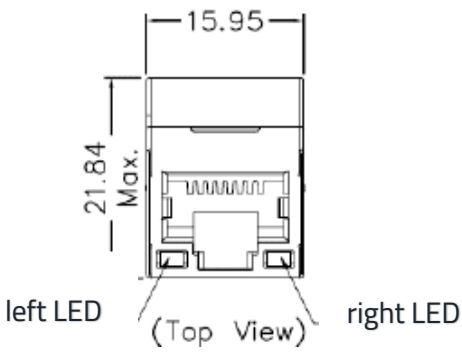
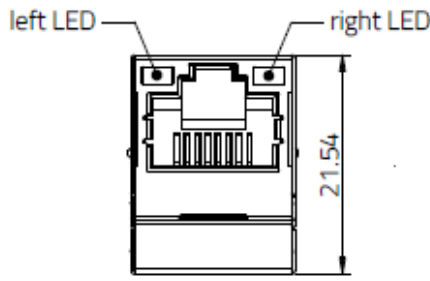


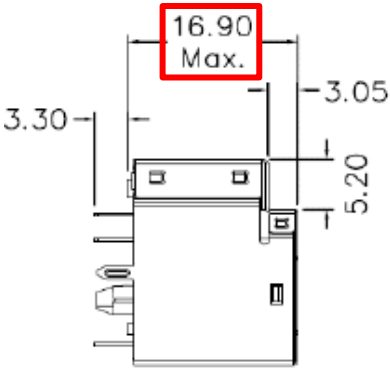
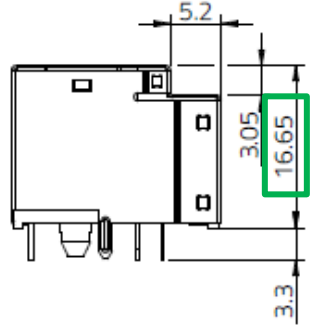
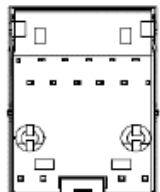

	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Common Mode Rejection Ratio: 1-100 MHz</p>	<p>Common Mode Rejection Ratio: 1-30 MHz 30-60 MHz 60-100 MHz</p>

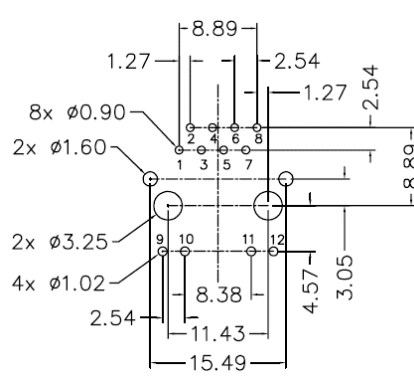
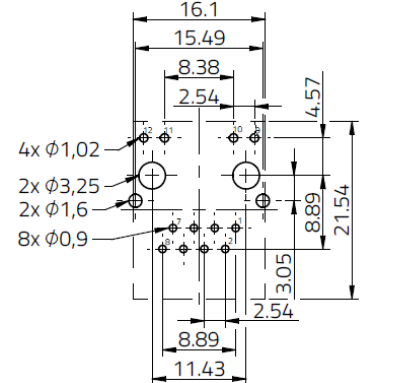
Affected order code: 7499210210

Before correction	After correction
<p style="text-align: center;">Before correction</p> 	<p style="text-align: center;">After correction</p> <p style="text-align: center; color: green;">definition of left and right LED switched</p> 
	
	
	

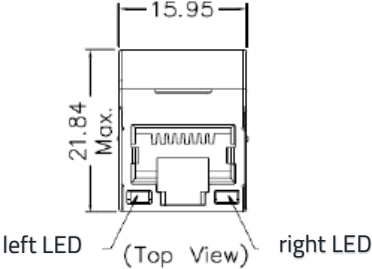
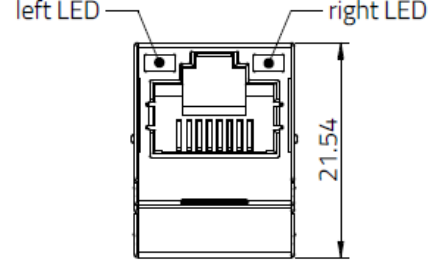


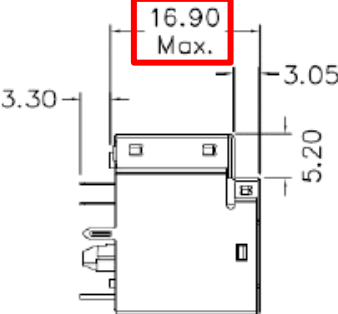
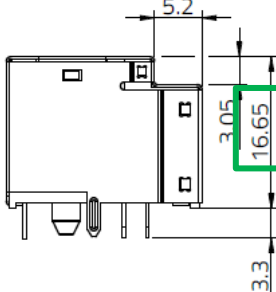
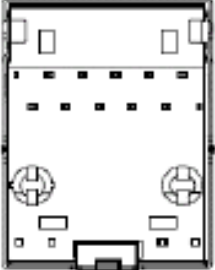
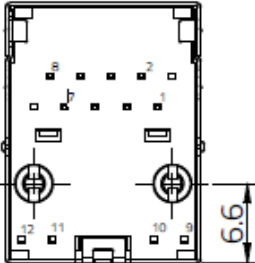
	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Common Mode Rejection Ratio: 1-100 MHz</p>	<p>Common Mode Rejection Ratio: 1-30 MHz 30-60 MHz 60-100 MHz</p>

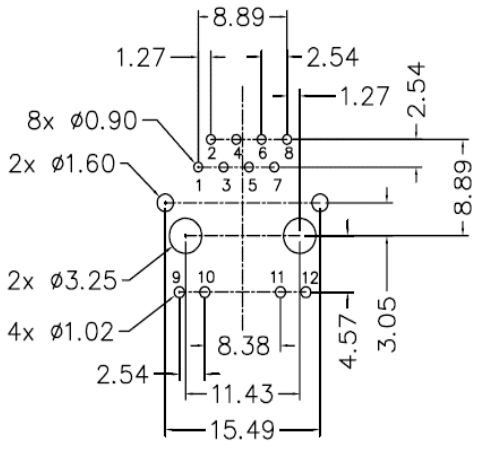
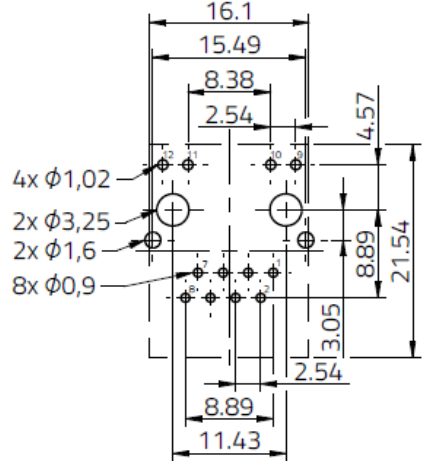
Affected order code: 7499010122A

Before correction	After correction
<p style="text-align: center;">Before correction</p> 	<p style="text-align: center;">After correction</p> <p style="text-align: center;">definition of left and right LED switched</p> 
	
	
	

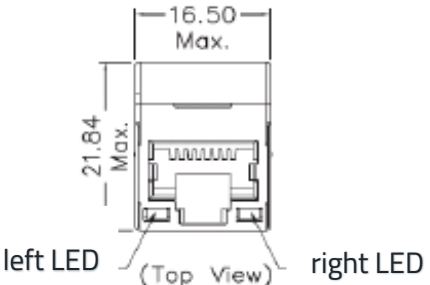
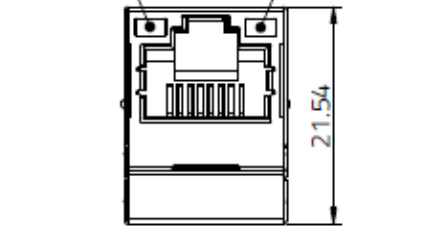


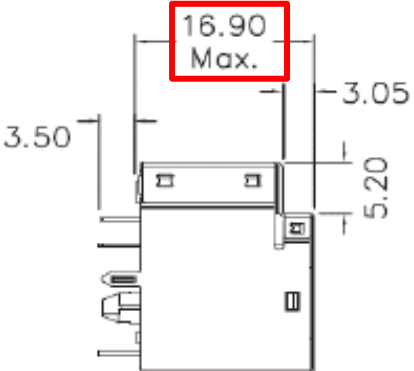
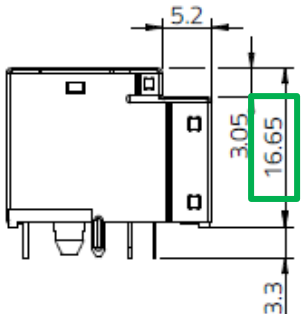
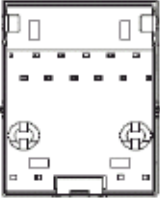
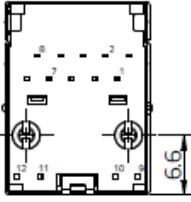
	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Commo Mode Rejection Ratio: 1-100 MHz</p>	<p>Commo Mode Rejection Ratio: 1-30 MHz 30-60 MHz 60-100 MHz</p>

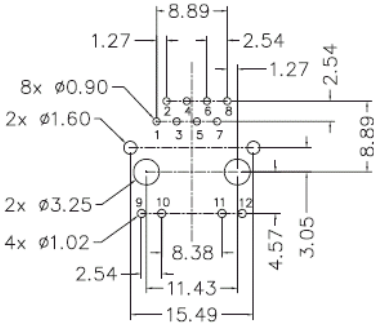
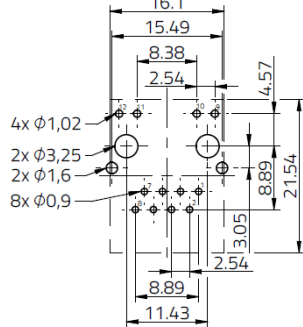
Affected order code: 7499010126A

Before correction	After correction
<p style="text-align: center;">Before correction</p> 	<p style="text-align: center;">After correction</p> <p style="text-align: center;">definition of left and right LED switched</p> 
	
	
	

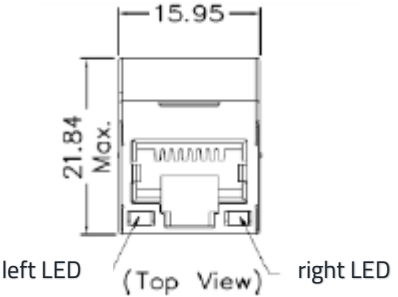
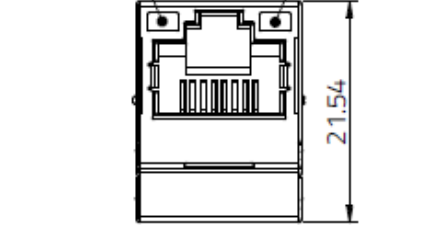


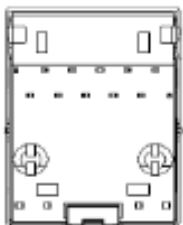
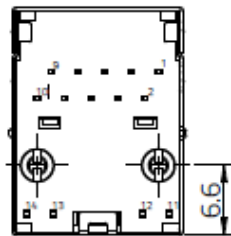
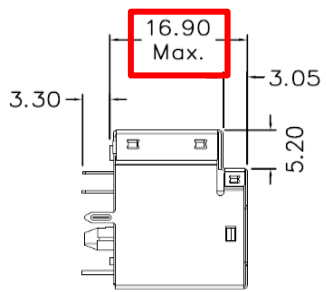
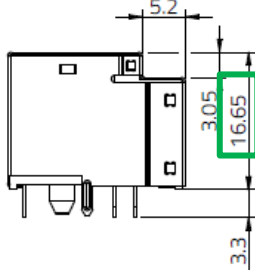
	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Common Mode Rejection Ratio: 1-100 MHz</p>	<p>Common Mode Rejection Ratio: 1-30 MHz 30-60 MHz 60-100 MHz</p>

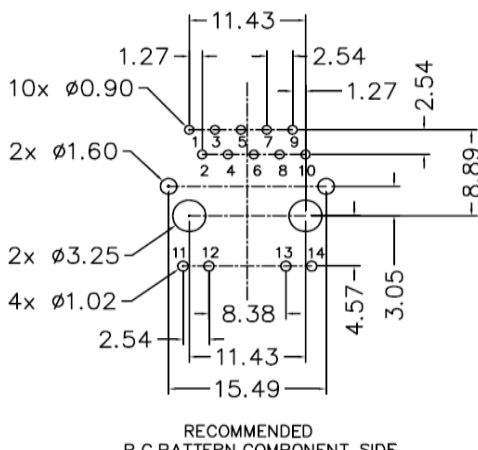
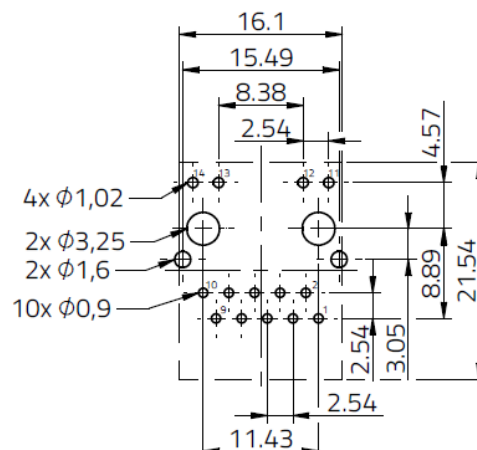
Affected order code: 7499010219A

Before correction	After correction
	<p>definition of left and right LED switched</p> 
	
	
	

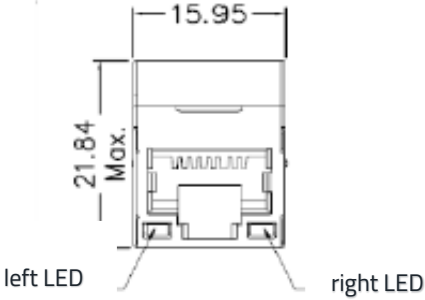
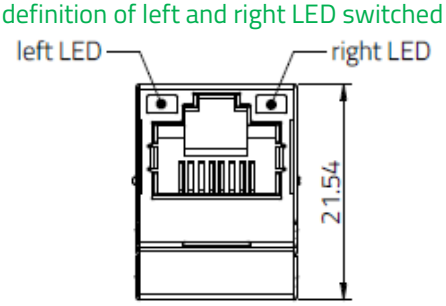


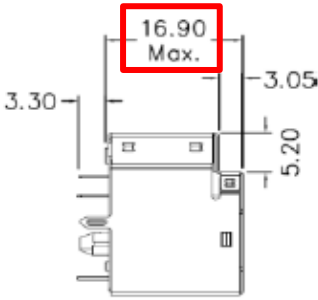
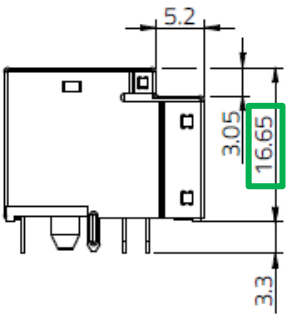
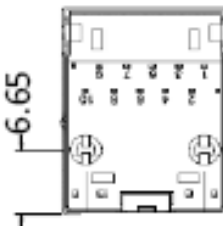
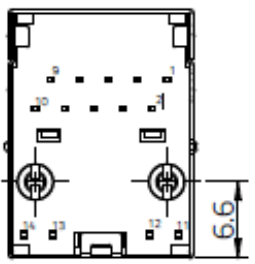
	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Common Mode Rejection Ratio: 1-100 MHz</p>	<p>Common Mode Rejection Ratio: 1-30 MHz 30-60 MHz 60-100 MHz</p>

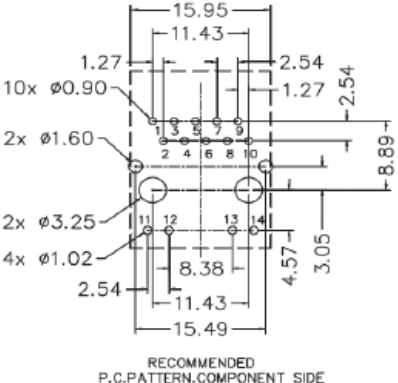
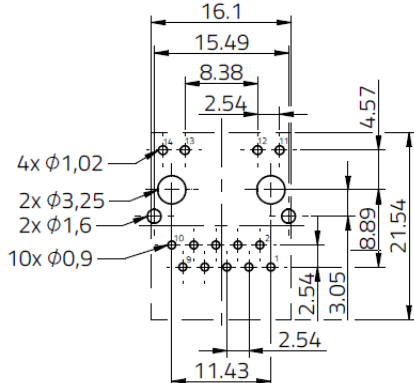
Affected order code: 7499110120A

Before correction	After correction
	<p>definition of left and right LED switched</p> 
	
	
	

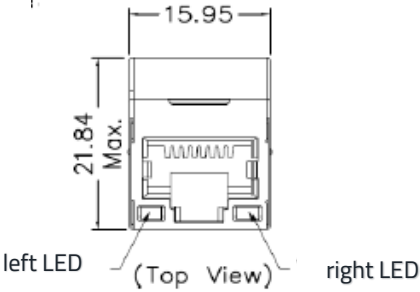
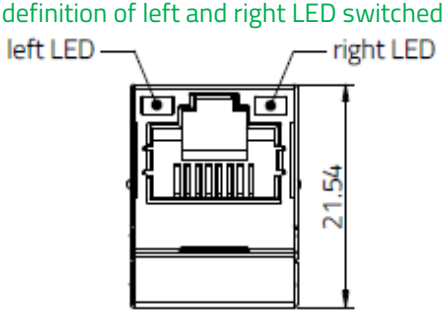


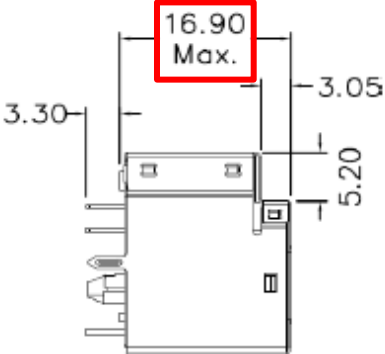
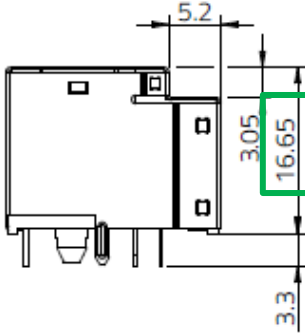
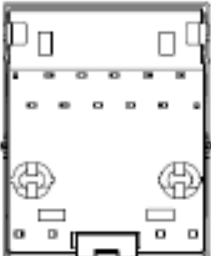
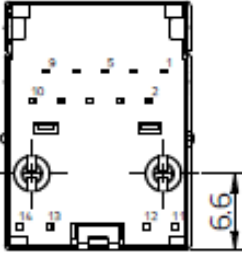
	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-40 MHz 40-60 MHz 60-80 MHz 80-100 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Common Mode Rejection Ratio: 1-100 MHz</p>	<p>Common Mode Rejection Ratio: 1-30 MHz 30-60 MHz 60-100 MHz</p>

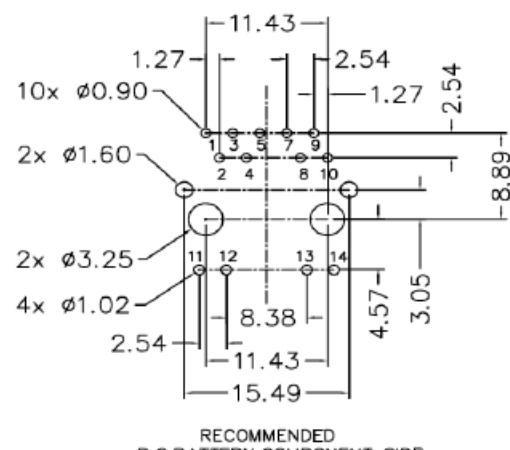
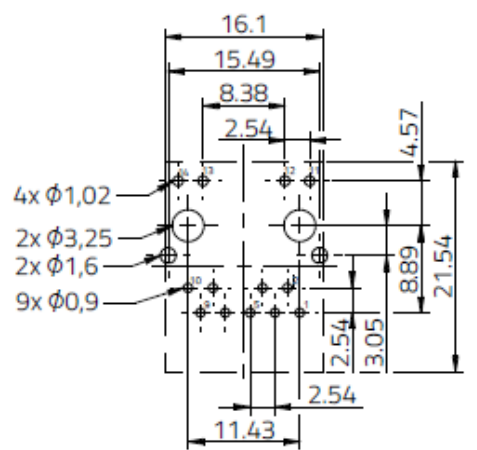
Affected order code: 7499210123A

Before correction	After correction
	<p>definition of left and right LED switched</p> 
	
	
	

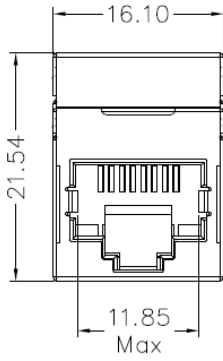
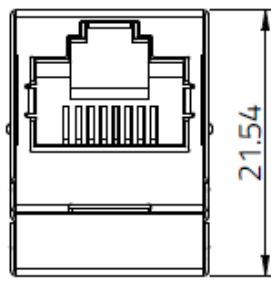


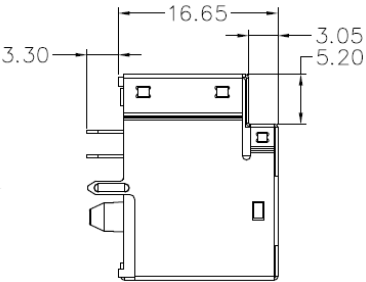
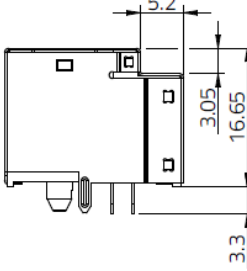
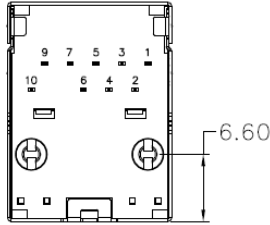
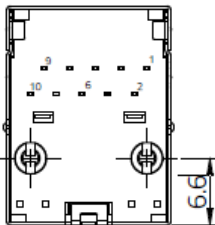
	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Common Mode Rejection Ratio: 1-100 MHz</p>	<p>Common Mode Rejection Ratio: 1-30 MHz 30-60 MHz</p>

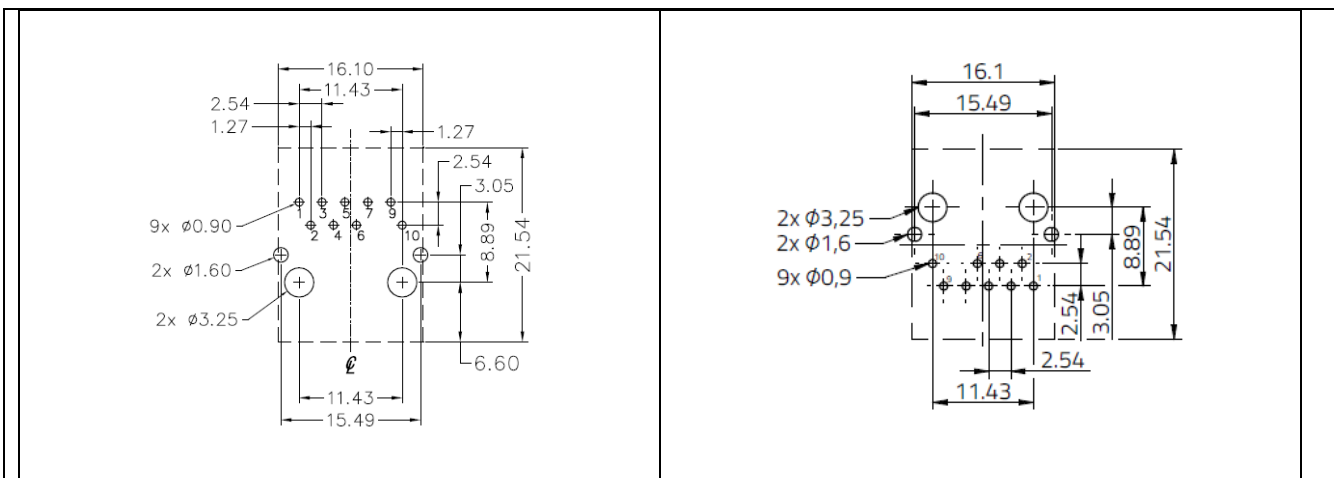
Affected order code: 7499210210A

Before correction	After correction
	<p>definition of left and right LED switched</p> 
	
	
	

 <p>RECOMMENDED P.C.PATTERN.COMPOONENT SIDE</p>	
<p>Dielectric Rating: 1500 Vrms</p>	<p>Dielectric Rating: 2250 VDC</p>
<p>Insertion Loss: 1-65 MHz</p>	<p>Insertion Loss: 1-100 MHz</p>
<p>Return Loss: 1-30 MHz 30-45 MHz 45-60 MHz 60-80 MHz</p>	<p>Return Loss: 1-30 MHz 30-60 MHz 60-80 MHz 80-100 MHz</p>
<p>Crosstalk: 1-100 MHz</p>	<p>Crosstalk: 1-60 MHz 60-100 MHz</p>
<p>Common Mode rejection Ratio: 1-30 MHz 30-60 MHz</p>	<p>Common Mode rejection Ratio: 1-100 MHz</p>

Affected order code: S20100170

Before correction	After correction
	
	
	
	



Reliability / Qualification of Change:

Test Item	Sample Size	Reference	Test Conditions	Acceptance
Soldering Test	30	J-STD-002	Steam Aging 8 hrs±15 min @93 °C, flux immersion time: 5 to 10 seconds flux immersion angle: 90° nominal solder temp.: 245±5 °C solder immersion time: 5+0/-0.5 seconds solder immersion /Emersion rate: 25±6 mm/sec	Approved
Thermal Shock	30	MIL-STD-202-107	100 cycles, from -40 °C (dwell time: 30 min) to 85 °C (dwell time: 30 min). Maximum transfer time: ~ 20 s	Approved
Vibration	30	MIL-STD-202-204	5 g for 20 min, 12 cycles each of 3 orientations. Test from 10 Hz to 2000 Hz.	Approved
Static Pull	5	EIA-364-98	53.4 N (12 lbf) min pull at an 40° angle, 4 directions, , electrical load:100 mA DC; 60 s in each directions	Approved
Dynamic Pull	5	EIA-364-41E	33.34 N (7.5 lbf) min pull at an 40° angle from normal hanging axis, each of 2 planes dimension, electrical load:100 mA DC; 4 cycles a minute, 3 cycles (full rotations in each direction)	Approved
Salt Spray	30	EIA-364-26B	Temperature 35±2 °C, Humidity 95-98%, PH:6.5-7.2, Testing Time: 48 h	Approved