

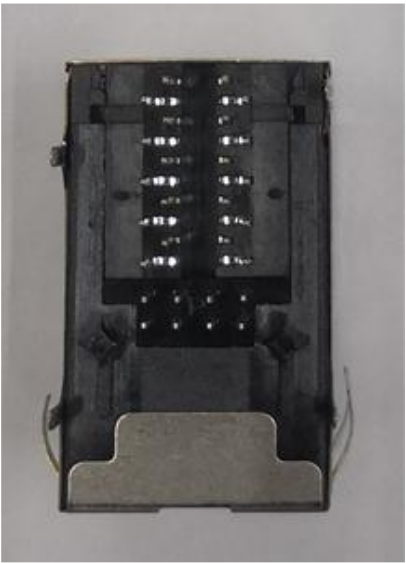





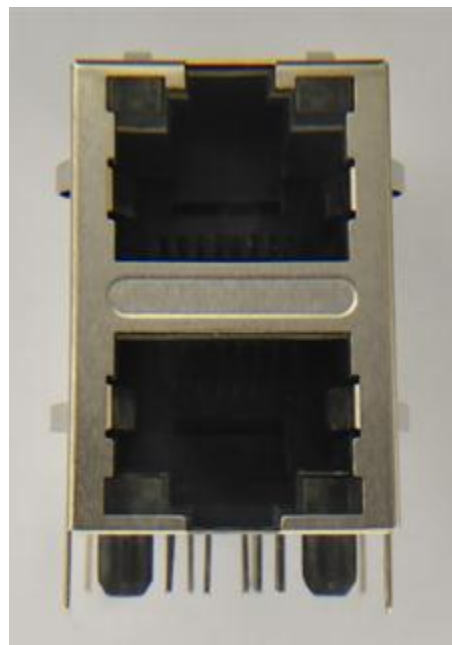
<h2>Product/Process Change Notice (PCN)</h2> <p> <input checked="" type="checkbox"/> Major Change  <input type="checkbox"/> Minor Change         </p>	
<b>PCN Number:</b> PCN_UtRJ45LAN_20250207  <b>Affected Series:</b> WE-RJ45LAN  <b>Affected Part Number:</b> 7499050440, 7499151120, 7499151440, S18100041  <b>PCN Date:</b> 2024-11-07 (YYYY-MM-DD) <b>Effective Date:</b> 2025-02-07 (YYYY-MM-DD)	<b>Change Category:</b> <input type="checkbox"/> Equipment/Location <input checked="" 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
<b>Contact:</b> Product Management <b>Phone:</b> +49 (0) 7942 - 945 5001 <b>Fax:</b> +49 (0) 7942 - 945 5179 <b>E-Mail:</b> pcn.eisos@we-online.com	<b>Datasheet Change:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Attachment:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>DESCRIPTION OF CHANGE:</b> <p>In order to enhance the product reliability, Würth Elektronik eiSos will implement a new spot welding design technology.</p> <p>Along with this, further general improvements are done in design and process, like shield plating or wire to shield insulation.</p> <p>There will be no change in fit and function 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.) General Changes:

Before Change	After Change
Side view:	
 <p data-bbox="308 999 679 1028">Metal shield's pin is pre-soldered</p>	 <p data-bbox="973 999 1318 1028">Metal shield's pin is pre-plated</p>
Bottom view:	
	

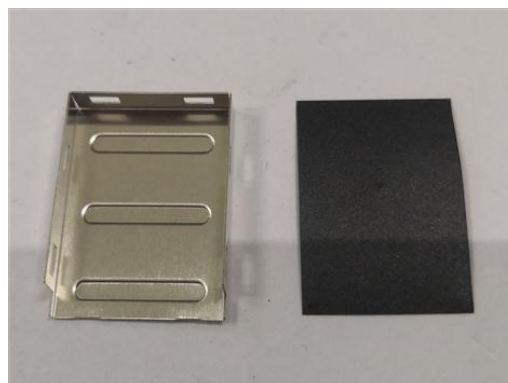
Front view:



Metal sheet back with insulation film:



Transparent insulation film out of PET



Black insulation film out of PC

Standardized capacitor used:

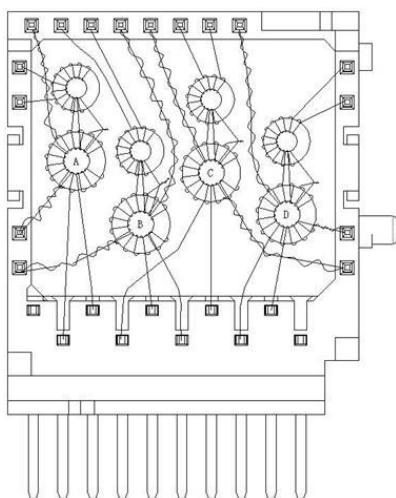


SMT

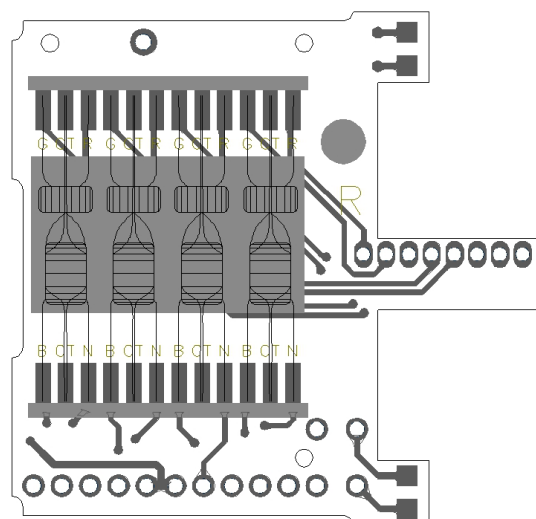


THT

Standardized core diameters and use of automatic spot welding:



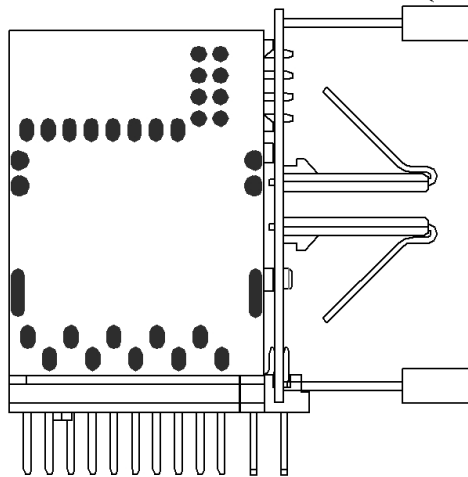
Manual assembly process of coils on the PCB



Automatic assembly process by spot welding

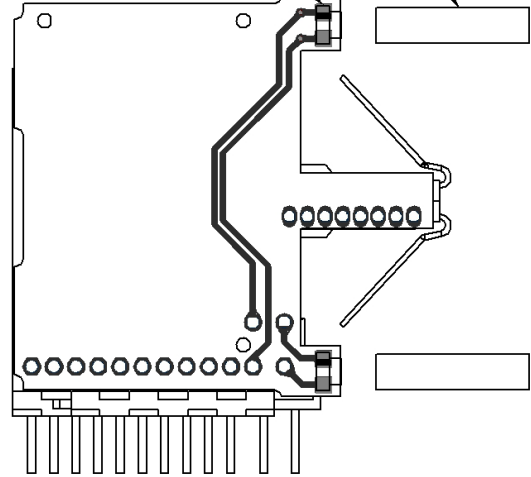
Standardize the usage of LED:

LED  
 (THT type)



THT LED on PCB

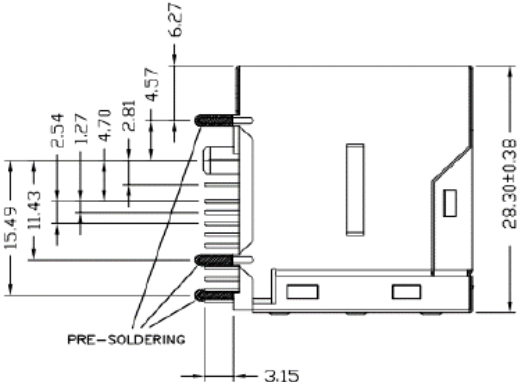
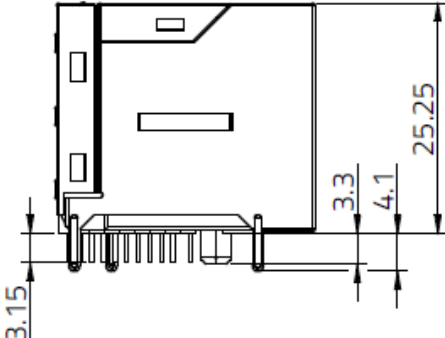
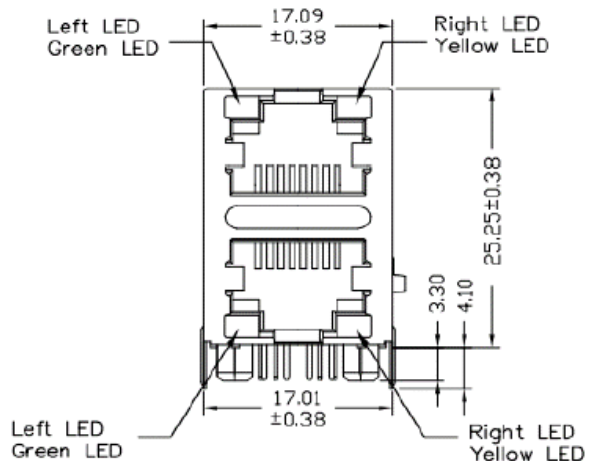
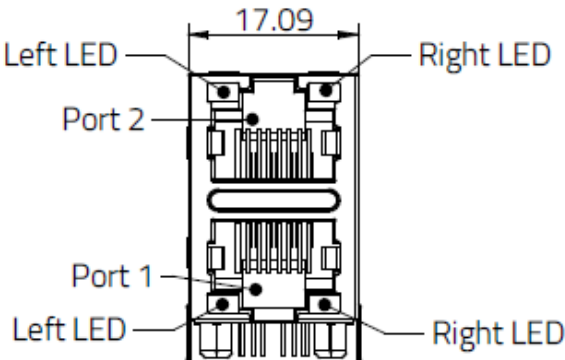

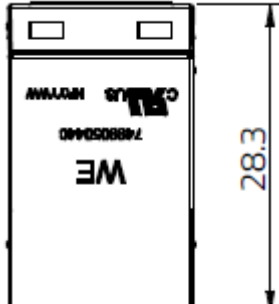
LED  
 (SMD type) Lightpipe

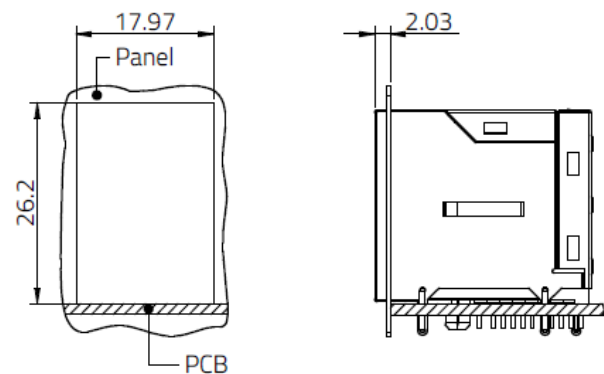
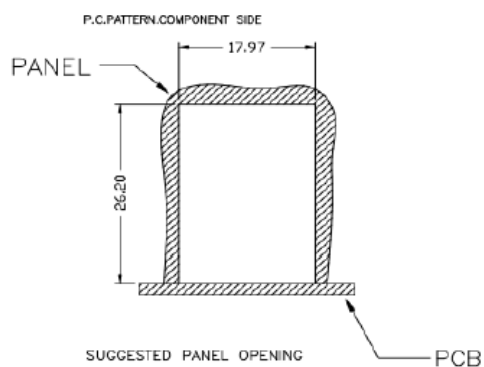
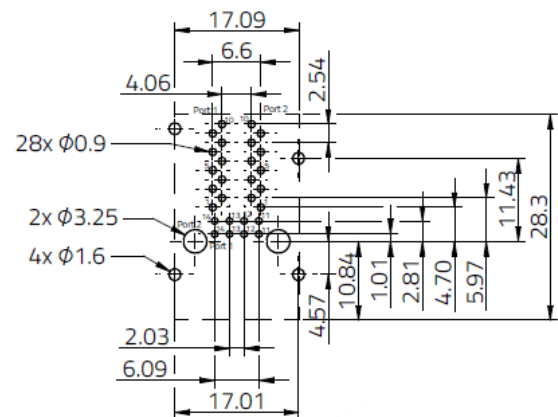
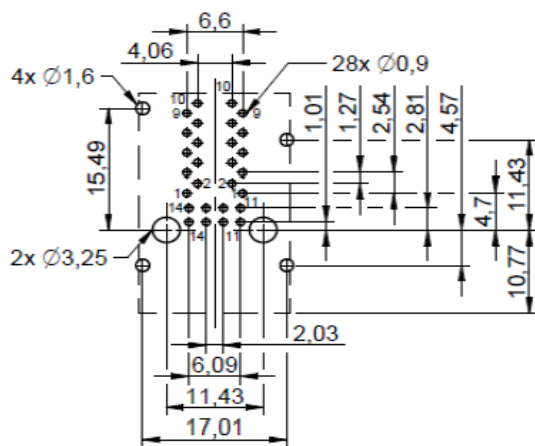
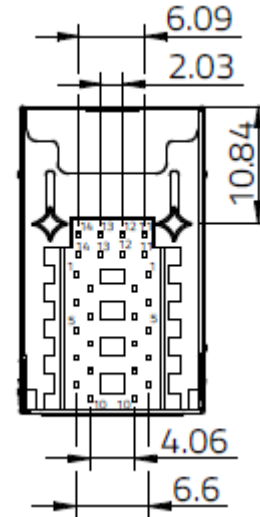
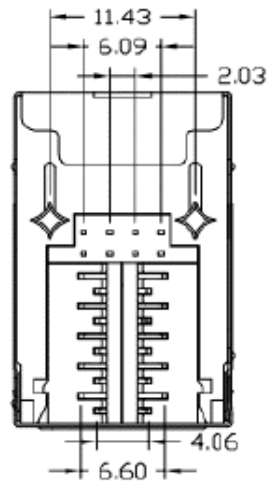


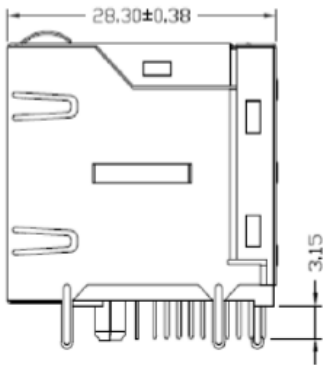
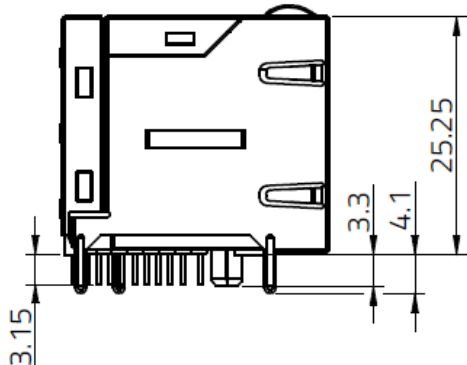
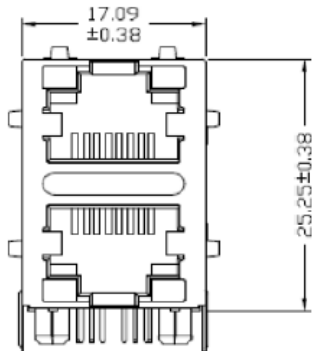
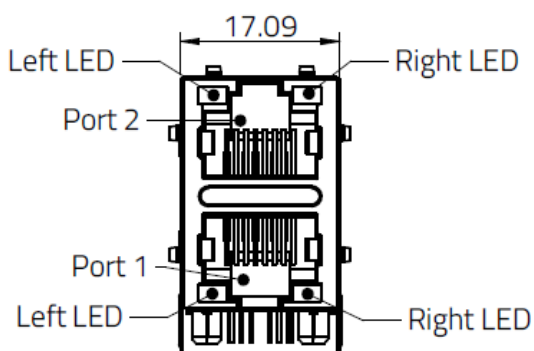
SMT LED + light pipe

## 2.) Datasheet corrections and details per part number:

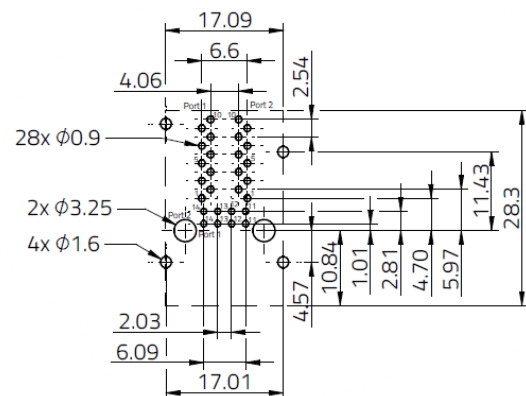
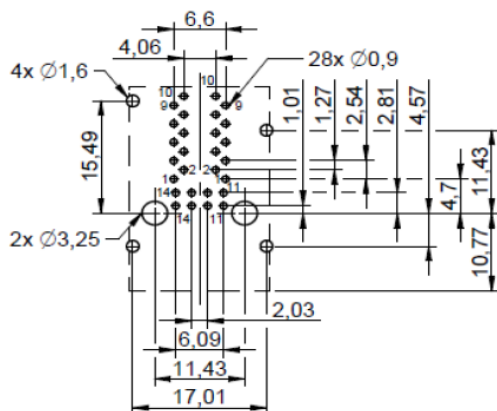
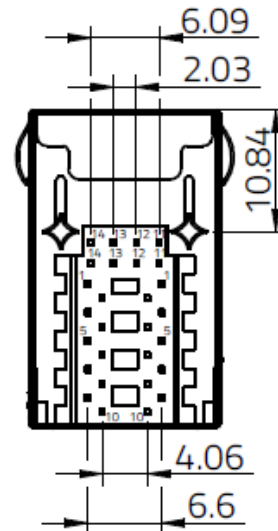
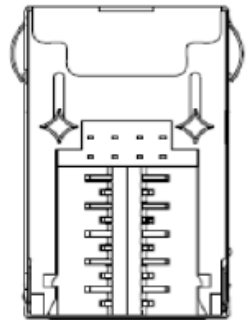
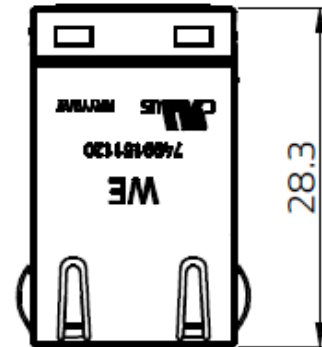
**7499050440:**

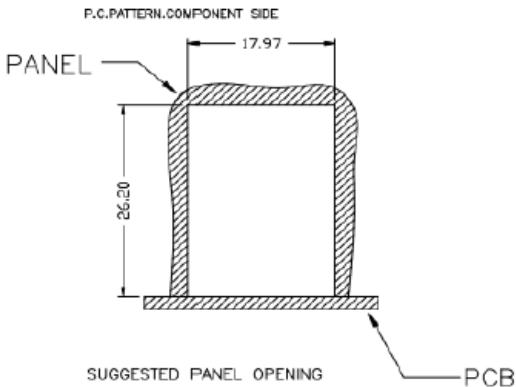
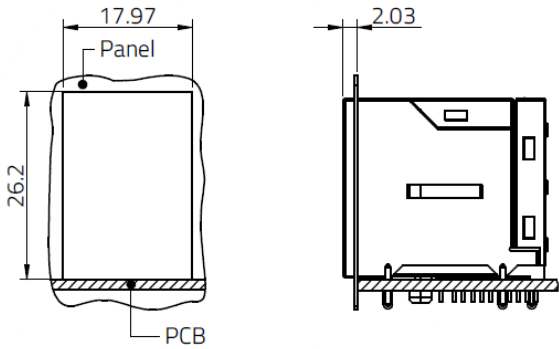
Before Change	After Change
	
	
	



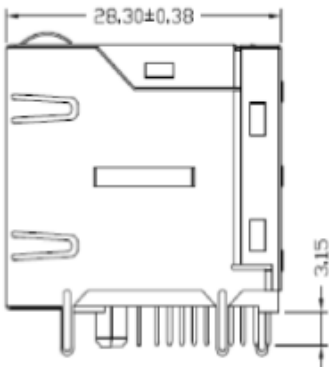
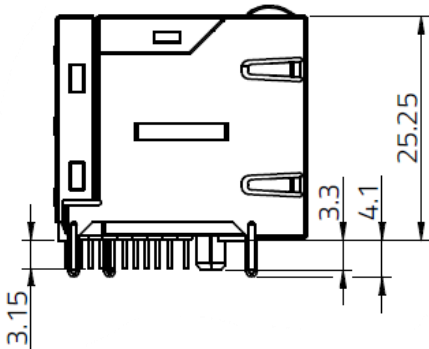
<b>RL:</b> 1 – 30 MHz 40 – 60 MHz 60 – 80 MHz 80 – 100 MHz	<b>RL:</b> 1 – 30 MHz 30 – 60 MHz 60 – 80 MHz 80 – 100 MHz
<b>CCMR:</b> 1 – 60 MHz 60 – 100 MHz	<b>CMRR:</b> 1 – 30 MHz 30 – 60 MHz 60 – 100 MHz
<b>HIPOT:</b> 1500 V(rms) for 1 min.	<b>HIPOT:</b> 2250 V(DC) for 1 min.
<b>7499151120:</b>	
<b>Before Change</b> 	<b>After Change</b> 
	

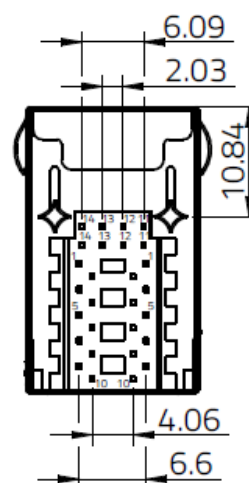
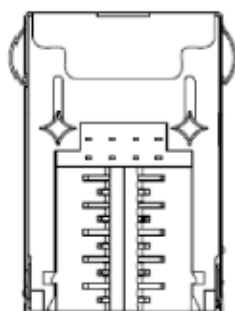
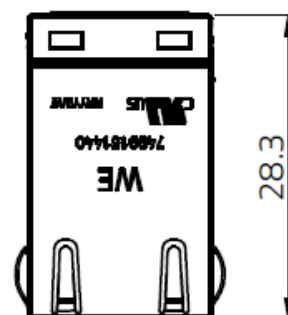
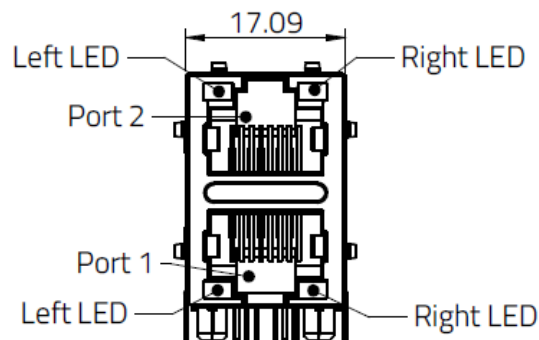
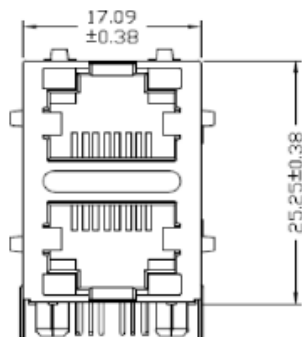


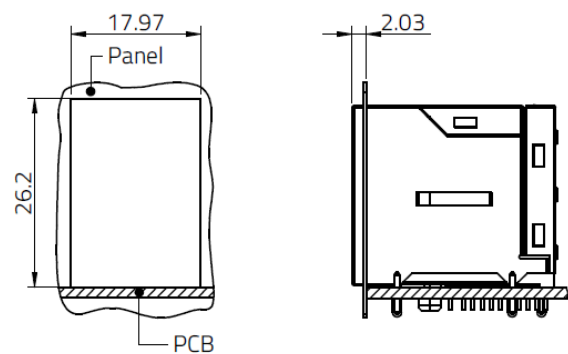
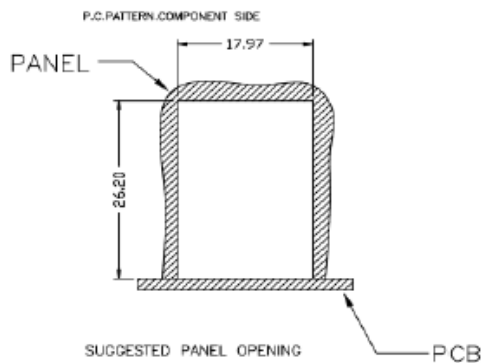
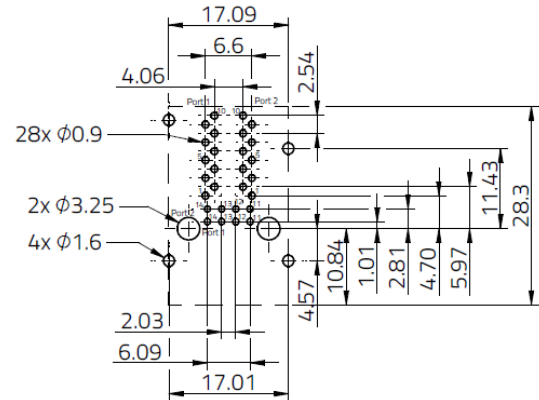
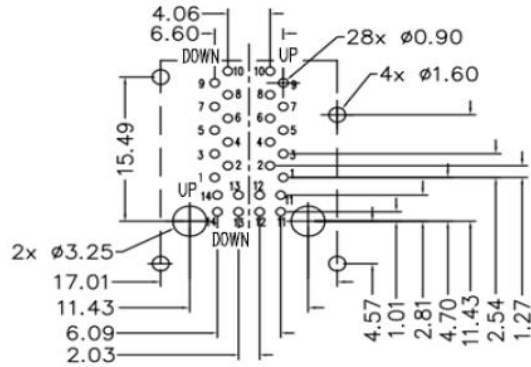


	
<p><b>RL:</b></p> <p>1 – 30 MHz          40 – 60 MHz          60 – 80 MHz          80 – 100 MHz</p>	<p><b>RL:</b></p> <p>1 – 30 MHz          30 – 60 MHz          60 – 80 MHz          80 – 100 MHz</p>
<p><b>CCMR:</b></p> <p>1 – 60 MHz          60 – 100 MHz</p>	<p><b>CMRR:</b></p> <p>1 – 30 MHz          30 – 60 MHz          60 – 100 MHz</p>
<p><b>CT:</b></p> <p>1 – 10 MHz          15 – 60 MHz          60 – 100 MHz</p>	<p><b>CT:</b></p> <p>1 – 60 MHz          60 – 100 MHz</p>

#### 7499151440:

Before Change	After Change
	





**RL:**

1 – 30 MHz  
 40 – 60 MHz  
 60 – 80 MHz  
 80 – 100 MHz

**RL:**

1 – 30 MHz  
 30 – 60 MHz  
 60 – 80 MHz  
 80 – 100 MHz

**CCMR:**

1 – 60 MHz  
 60 – 100 MHz

**CMRR:**

1 – 30 MHz  
 30 – 60 MHz  
 60 – 100 MHz

**CT:**

1 – 10 MHz  
 15 – 60 MHz  
 60 – 100 MHz

**CT:**

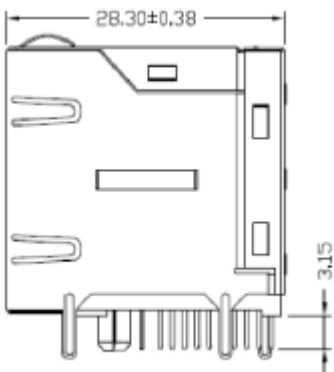
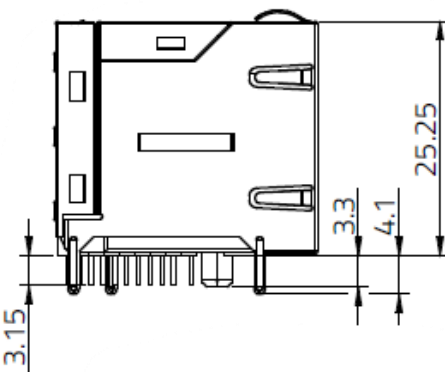
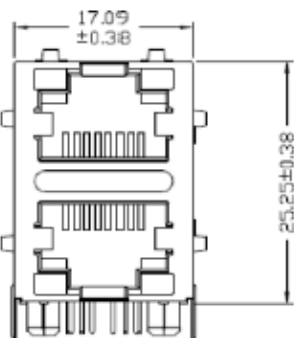
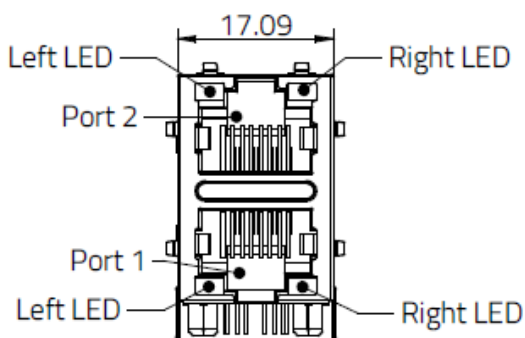

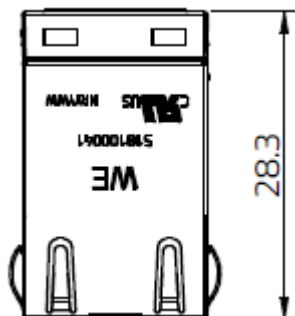
1 – 60 MHz  
 60 – 100 MHz

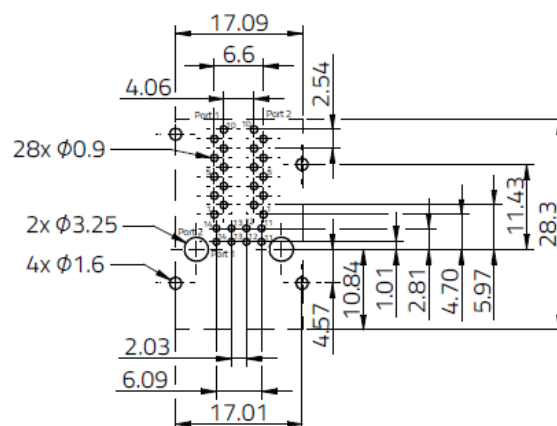
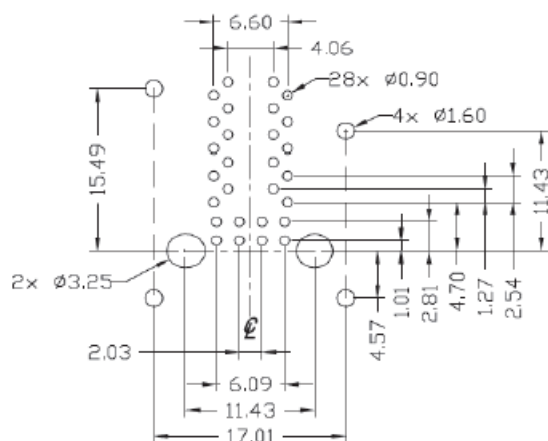
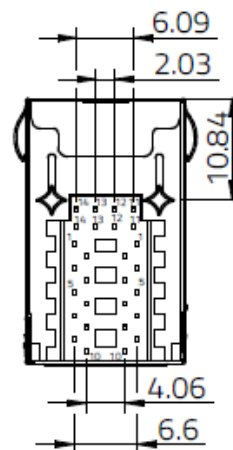
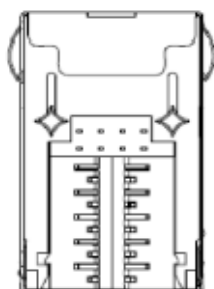
**HIPOT:**

1500 V(rms) for 1 min.

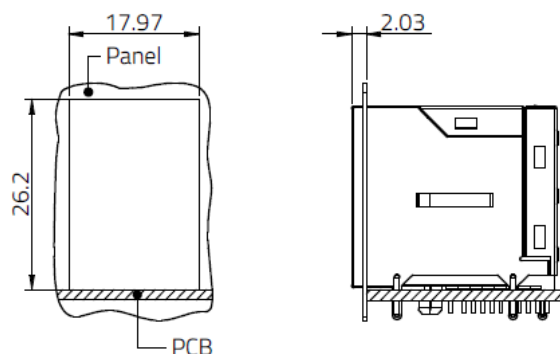
**HIPOT:**

2250 V(DC) for 1 min.

<b>S18100041:</b>	
Before Change	After Change
 <p>Top view of the component before change. Dimensions: 28.30±0.38 (width), 3.15 (height of the bottom section).</p>	 <p>Top view of the component after change. Dimensions: 25.25 (width), 3.15 (height of the bottom section), 3.3 (height of the middle section), 4.1 (height of the top section), 25.25 (total height).</p>
 <p>Front view of the component before change. Dimensions: 17.09±0.38 (width), 25.25±0.38 (height).</p>	 <p>Front view of the component after change. Dimensions: 17.09 (width). Labels: Left LED, Right LED, Port 2, Port 1, Left LED, Right LED.</p>
 <p>Bottom view of the component before change. Text: WE, S18100041, NRY'WW.</p>	 <p>Bottom view of the component after change. Dimensions: 28.3 (width). Text: WE, S18100041, NRY'WW.</p>



No panel cutout



**HIPOT:**  
1500 V(rms) for 1 min.

**HIPOT:**  
2250 V(DC) for 1 min.



#### RELIABILITY / QUALIFICATION OF CHANGE:

An additional reliability testing was performed and approved.

Additional details of the tests can be found in the table below:

Test Item	Sample size	Reference	Test conditions	Acceptance
Resistance to Soldering Heat (THT Types)	30	MIL-STD-202-210	$T_p = 260 \pm 5 \text{ }^{\circ}\text{C}$ , $t_p = 10 \pm 1 \text{ s}$ , 1 time wave	Approved
Soldering Test (THT Types)	30	J-STD-002	Steam Aging 8 hrs @ $93 \text{ }^{\circ}\text{C}$ , Soldering Temperature: $245 \pm 5 \text{ }^{\circ}\text{C}$ Soldering Time: 4 ~ 5 seconds Solder: Sn96.5Ag3Cu0.5	Approved
OCL at temperature limits	10	eiSos PM Standard	Put in oven while measuring the inductance. (OCL value at 1. Ambient Temperature, 2. Low temperature limit, 3. High temperature limit) Operating temp. limits $\pm 3 \text{ }^{\circ}\text{C}$ Electrical conditions: 100 mV, 100 kHz, Bias current see datasheet Temperature limits: See datasheet	Approved
High Temperature Exposure	30	MIL-STD-202-108	Temperature: $85 \pm 3 \text{ }^{\circ}\text{C}$ , Duration: 1000 hours	Approved
Low Temperature Storage life	30	JESD22-A119	Temperature: $-40 \pm 3 \text{ }^{\circ}\text{C}$ , Duration: 1000 hours	Approved
Thermal Shock	30	MIL-STD-202-107	$-40 \text{ }^{\circ}\text{C}$ (30min) ~ $85 \text{ }^{\circ}\text{C}$ (30min), Transfer time max. 20s, 300 cycles	Approved
Vibration	30	MIL-STD-202-204	10g's for 20 minutes, 12 cycles each of 3 orientations. Test from 15-2000 Hz	Approved
MaU WES 3.1 Mating & unmating (force)	5	EIA-364-13D	Test speed: 25mm/min, maximal force value while mating and unmating.	Approved



Durability	5	IEC 60512, Test 9a, 13b /EIA -364-09C	Mate and Unmate connector, 30Nmax, Test speed = 450~550 cycles/hour, total 1200 cycles.	Approved
Moisture Resistance	30	MIL-STD-202-106	Temperature: 25 °C ~ 65 °C, 24H/cycle humidity: 95 % (R.H), Duration: 500 hours	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 direction.	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 % (R.H) PH Value: 6.5 ~ 7.2, Duration time: 72 hours Density of salt water: 5 ±1 %	Approved