



Product / Process Change Notification (PCN)

- ☒ Major Change
☐ Minor Change

PCN Number: PCN_IndSL2_20241206 Affected Series: WE-SL2 Affected Order Codes: please see table below PCN Date: 2024-06-09 (YYYY-MM-DD) Effective Date: 2024-12-06 (YYYY-MM-DD)		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		Datasheet Change: ☐ Yes ☒ No Attachment: ☐ Yes ☒ No																				
Description of Change: To ensure and improve product reliability, Würth Elektronik eiSos will change the base and case inner design. There will be no change in form, fit, function, quality or reliability of the product. The new internal design improves the wire protection during the product assembly. 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). Affected order codes*: <table border="1"> <tr> <td>744220103</td> <td>744220203</td> <td>744221</td> <td>744222</td> <td>744223</td> </tr> <tr> <td>744224</td> <td>744225</td> <td>744225S</td> <td>744226</td> <td>744226S</td> </tr> <tr> <td>744227</td> <td>744227S</td> <td>744228</td> <td>744228S</td> <td>744229</td> </tr> <tr> <td>S191000</td> <td>S20100183</td> <td>S24100140</td> <td>744220</td> <td>9900638</td> </tr> </table>			744220103	744220203	744221	744222	744223	744224	744225	744225S	744226	744226S	744227	744227S	744228	744228S	744229	S191000	S20100183	S24100140	744220	9900638
744220103	744220203	744221	744222	744223																		
744224	744225	744225S	744226	744226S																		
744227	744227S	744228	744228S	744229																		
S191000	S20100183	S24100140	744220	9900638																		
* Samples available on demand																						

Details of Change:

To improve the wire protection, the new internal design has more space in the base for the core and the windings to avoid collisions during case assembly.

There is no change in form, fit or appearance:

Before Change	After Change
	

(see next page)



Reliability / Qualification of Change:

An additional reliability testing was performed and approved.

Qualification according to AEC-Q200 Rev E table 5A: Magnetics (Inductors/Transformers) Process Change

Qualification, guidelines for the Selection of Tests, additional details of the tests can be found in the table below:

Order code tested: 744221, 744220, 744227S

Acceptance Criteria	
# 1	No physical damage and electrical property (Ls, Rdc, Z) meets datasheet both premeasurement and postmeasurement
# 2	Inspect device construction, marking and workmanship. Electrical test not required.
# 3	Acceptability of Electronic Assemblies IPC-A-610 class 3.
# 4	Push off sample from PCB and force needs to be recorded.

Test Item	Sample Size	Reference	Test Conditions	Acceptance Criteria
Temperature Cycling	77	JESD22 Method JA-104	1000 cycles, from -40 °C (dwell time: 30 min) to 125 °C (dwell time: 30 min). Maximum transfer time: 1 min.	# 1 Approved
External Visual	30	MIL-STD-883-2009	N/A	# 2 Approved
Physical Dimension	10	JESD22 Method JB-100	N/A	# 3 Approved
Mechanical Shock	10	MIL-STD-202-213	3 shocks in each direction (x, -x, y, -y, z, -z), peak value 100 g's, duration 6 ms, 3 shocks in each direction (x, -x, y, -y, z, -z), peak value 100 g's, duration 6 ms, half-sine, velocity change 12.3 ft/s	# 1 Approved
Vibration	10	MIL-STD-202-213	8 h +/- 15 min @ 93 °C TC = 240 °C ~ 245 °C, tp = 20 ~ 30 s	# 3 Approved
Board Flex	30	AEC-Q200-005	5 g's for 20 min, 12 cycles each of 3 orientations, test from 10~2000 Hz	# 1 Approved
Electrical Characterization	10	User Spec	Measure electrical property @ 20 °C, Maximum Temp, Minimum Temp.	# 1 Approved