Würth Elektronik eiSos GmbH & Co. KG
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WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

Product / Process Change Notification (PCN)

☒ Major Change
☐ Minor Change

PCN Number:	PCN_IndHCM_20250110
Affected Series:	WE-HCM
Affected Order Codes:	See table 1
PCN Date:	2024-10-10 (YYYY-MM-DD)
Effective Date:	2025-01-10 (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
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Datasheet Change:
☒ Yes ☐ No

Attachment:
☐ Yes ☒ No

Description of Change:

To meet current customer demands, Würth Elektronik eiSos will implement an additional production line to increase the production capability, and in line with internal standardization, Würth Elektronik eiSos will ensure an improvement of the marking technology for WE-HCM series.

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

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).

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Table 1. Affected order codes

1. Size 1012				
74431012007	74431012010	74431012012	74431012015	
2. Size 1050				
744303012	744303015	744303022		
3. Size 1052				
744306020	744306025	744306030		
4. Size 1070				
744308015	744308020	744308025	744308033	744308040
5. Size 1078				
7443081010	7443081012	7443081015	7443081018	7443081022
7443081030	7443081040			
6. Size 1088				
7443082010	7443082010	7443082010	7443082010	7443082010
7443082010				
7. Size 1088A				
7443082015A	7443082018A			
8. Size 1088B				
7443082010B	7443082012B	7443082015B		
9. Size 1190				
744301025	744301033	744301047		
10. Size 1240				
744304010	744304016	744304022		
11. Size 1323				
74431323012	74431323016			
12. Size 1350				
744305022	744305033	744305040		

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13. Size 1390				
744309012	744309025	744309033	744309047	
14. Size 1435				
74431435010	74431435012	74431435015	74431435018	74431435022
15. Size 1820				
74431821100				
16. Size 4030				
744340300025	744340300030	744340300055	744340300075	
17. Size 4035				
74434035007	74434035007			
18. Size 5030				
74435030010				
19. Size 7050				
744302007	744302010	744302015		
20. Size 7070				
744307012	744307016	744307022		
21. Size 9065				
744300006	744300008	744300010	744300015	744300022

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Details of Change:

1. The new production line of Würth Elektronik eiSos can be identified by checking the digits four and five of the lot number, as follows:

Existing production line identification	Additional production line identification
Lot number: 618 **10** XXX XXXX XXX	Lot number: 618 **20** XXX XXXX XXX
Country of origin on Delivery Note: China	Country of origin on Delivery Note: China

2. Würth Elektronik eiSos will improve the marking technology from the actual ink jet methodology to the new laser methodology. Würth Elektronik eiSos is removing the date code and updating the complete part number for the L-Code. This change is applied for the order codes shown in the table 1.

   2.1. For the total amount of sizes shown in table 1, except for: Sizes 4030, 4035 and 5030, the marking style will be as follow:

Before Change	After Change
Ink jet methodology:	Laser methodology:
Size 1012, marking on the side of the component 	Size 1012, marking on the side of the component 
Rest of sizes, marking on the top of the component 	Rest of sizes, marking on the top of the component 

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2.2. For the sizes 4030, 4035 and 5030 shown in table 1, the marking will be as follow:

Before Change	After Change
Ink jet methodology: 	Laser methodology: 

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3. With the improvement on the marking technology, Würth Elektronik eiSos will update the drawings specifications accordingly to notify customer the new marking style used on the component for the order codes shown in the table 1.

3.1. For the sizes shown in the table 1, except for sizes 4030, 4035 and 5030, Würth Elektronik eiSos will make the following change:

Before Change	After Change
Ink jet methodology: 	Laser methodology: 

3.2. For sizes 4030, 4035 and 5030 shown in the table 1, Würth Elektronik eiSos will make the following change:

Before Change	After Change
Ink jet methodology: 	Laser methodology: 

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Reliability / Qualification of Change:

There will be no change of electrical & mechanical parameters of the product.

An additional reliability testing was performed and approved.
Qualification according to AEC-Q200 table 05.
Additional details of the tests can be found in the table below:

Test Item	Sample Size	Reference	Test Conditions	Acceptance
High Temperature Exposure	77	MIL-STD-202-108	125 °C, 1000 hrs	Approved
Temperature Cycling	77	JESD22 Method JA-104	-40°C(30min) ~ 125°C(30min), Transfer time max. 1min., 1000 cycles	Approved
Biased Humidity	77	MIL-STD-202-103	85°C, 85%RH, 1000h	Approved
High Temperature Operational Life	77	MIL-STD-202-108	85°C=125°C – 40K, 1000h, rated current from the datasheet	Approved
External Visual	ALL	MIL-STD-883-2009	N/A	Approved
Physical Dimension	30	JESD22 Method JB-100	N/A	Approved

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Test Item	Sample Size	Reference	Test Conditions		Acceptance
Resistance to Solvents	5	MIL-STD-202-215	Solvent 1: Immersion for 3+0.5, -0 minutes @ 25±5 °C, brush 10 strokes (wet bristle), hand pressure 2~3 ounce for 3 cycles with air-blown dry		Approved
	5		Solvent 3: Immersion for 3+0.5, -0 minutes @ 25±5°C, brush 10 strokes (wet bristle), hand pressure 2~3 ounce for 3 cycles with rinse in approximately 25 °C water and air-blown dry		
	5		Solvent 4: Immersion for 3+0.5, -0 minutes @ 63 °C~70 °C, brush 10 strokes (wet bristle), hand pressure 2~3 ounce for 3 cycles with rinse in approximately 25 °C water and air-blown dry		
Mechanical Schock	30	MIL-STD-202-213	3 shocks in each direction (x, -x, y, -y, z, -z) , peak value 100 g's, duration 6ms, half-sine, velocity change 12.3 ft/sec.		Approved
Vibration	30	MIL-STD-202-204	10 g's for 20 min, 12 cycles each of 3 orientations, test from15~2000 Hz		Approved
Resistance to Soldering Heat	30	J-STD-020	Size 1012	245 °C, tp=30~35 s, 3 times reflow	Approved
			Size 1070		
			Size 1390		
			Size 1435		
			Size 1820	250 °C, tp=30~35s, 3 times reflow	
			Size 4030		
			Size 7050		
			Size 9065		
ESD	15	AEC-Q200-002 or ISO/DIS10605	Test Environment: 22 °C ± 5 °C, Humidity: 30% ~ 60%		Approved
Solderability (SMD)	30	IPC-A-610	Steam Aging 8 hrs±15 min @ 93 °C, Tc=240~245 °C, tp=20~30 s.		Approved

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Test Item	Sample Size	Reference	Test Conditions	Acceptance
Electrical Characterization	30	User Spec.	measure electrical property @ 20 °C, -40, 125 °C	Approved
Board Flex	30	AEC-Q200-005	bending 2 mm (Min), 60 (+5) sec	Approved
Terminal Strength (SMD)	30	AEC-Q200-006	Push Off Force (N) 17.7	Approved
Low Temperature Storage Life	77	JESD22-A119	-40 °C, 1000 h	Approved
Washability	30	Internal standard	preconditions: soldered on PCB. Step1: Cleaning with medium A201 @60 °C, 20 min (pre-heated on min.45 °C) Step2: Rinsing 1 with DI water @ 30 °C, 2min Step3: Rinsing 2 with DI water @ 30 °C, 2min Step4: Rinsing 3 with DI water @ 40 °C, 3min Step5: Rinsing 4 with DI water @ 50 °C, 3min Step6: Drying @ 90°C, 30 min Unpowered.	Approved

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