Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
Max-Eyth-Straße 1 · 74638 Waldenburg · Germany
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eiSos@we-online.com · www.we-online.com

WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

Product / Process Change Notification (PCN)

☒ Major Change
☐ Minor Change

PCN Number:	PCN_IndPDA_20250210
Affected Series:	WE-PDA-1260
Affected Order Codes:	See table below
PCN Date:	2024-08-10 (YYYY-MM-DD)
Effective Date:	2025-02-10 (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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E-Mail:	pcn.eisos@we-online.com

Datasheet Change:
☒ Yes ☐ No

Attachment:
☐ Yes ☐ No

Description of Change:

In order to enhance the product reliability, Würth Elektronik eiSos has improved the product design by updating the shield ring and base of the component. A new manufacturing line has been released with a higher degree of automation. The temperature range of the component has been improved to -50 °C up to 150 °C.

There will be no change in function 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).

Affected order codes:

784771010	784771068	784771330	784771221
784771022	784771082	784771470	784771331
784771033	784771100	784771680	784771471
784771047	784771220	784771101	784771102

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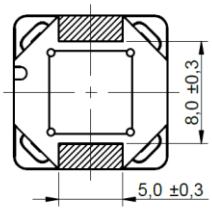
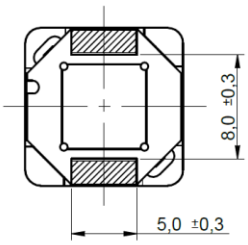
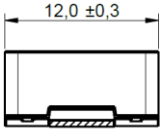
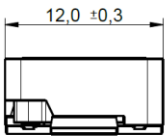
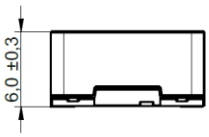
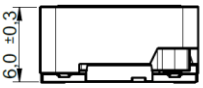
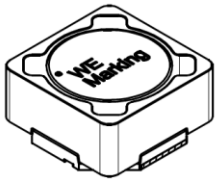
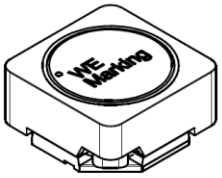
Details of Change:

Before Change	After Change
The original component has a different shield ring, base and ink marking. The operating temperature range was from -40 °C to 125 °C.	The correction consists of an improvement in the shield ring and base and a change from ink marking to laser marking. The operating temperature range will be improved from -50 °C to 150 °C.
	
	
	
	
	
	
Scale - 2:1	Scale - 2:1

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Reliability / Qualification of Change:

An additional reliability testing was performed and approved.

Qualification according to AEC-Q200 RevE 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	150 ℃, 1000 h	Approved
Temperature Cycling	77	JESD22 Method JA-104	preconditions: Reflow passes required -40 ℃ to 125 ℃, dwell time: 15 minutes minimum, Transfer time max. 1min., 1000 cycles	Approved
Humidity Bias	77	MIL-STD-202-103	preconditions: Reflow passes required 110 °C=150 °C – 40 K, 1000 h, maximum rated current with derating	Approved
External Visual	All	MIL-STD-883-2009	N/A	Approved
Physical Dimension	77	JESD22 Method JB-100	N/A	Approved
Resistance to Solvents (Wsh 3.1 Washability)	5	MIL-STD-202-215	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, 2 min Step3: Rinsing 2 with DI water @ 30 °C, 2 min Step4: Rinsing 3 with DI water @ 40 °C, 3 min Step5: Rinsing 4 with DI water @ 50 °C, 3 min Step6: Drying @ 90 °C, 30 min Unpowered.	Approved
Mechanical Shock	30	MIL-STD-202-213	shocks in each direction (x, -x, y, -y, z, -z), total 18 shocks, peak value 100 g's, duration 6ms, half-sine, velocity change 12.3 ft/sec.	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

(please see next page)

Würth Elektronik eiSos GmbH & Co. KG Sitz Waldenburg, Registergericht Stuttgart HRA 580801
Komplementär Würth Elektronik eiSos Verwaltungs-GmbH, Sitz Waldenburg, Registergericht Stuttgart HRB 581033
Geschäftsführer Thomas Wild, Alexander Gerfer, Dirk Knorr, Josef Wörner
Bankverbindung UniCredit Bank AG Stuttgart, Konto 322 620 136, BLZ 600 202 90, IBAN DE86 6002 0290 0322 6201 36, SWIFT/BIC HYVEDEMM473
USt.-IdNr. DE220618976

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Test Item	Sample Size	Reference	Test Conditions		Acceptance
Resistance to Soldering Heat	30	J-STD-020	Tc=245 ℃， tp=30~35 s, 5 times reflow		Approved
ESD	15	AEC-Q200-002 or ISO/DIS10605	Test Environment: 22 °C ± 5 °C, Humidity: 30 % to 60 %		Approved
			25 KV		
Solderability (SMD)	15	J-STD-002	Condition B1	preconditions: Dry Bake 4 h ± 15 min @ 155 °C, Dip and Look Test (Leadless) Solder Angle:20-45° Solder temperature:245±5 ℃ Solder immersion time: 5+0/-0.5 s	Approved
	15		Condition D	preconditions: Dry Bake 4 h ± 15 min @ 155 °C, Resistance to Dissolution of Metallization Solder Angle:20-45° Solder temperature:260±5 ℃ Solder immersion time: 30+5/-0s	Approved
Electrical Characterization	30	User Spec.	measure electrical property@ 20 ℃,150 ℃, -55 ℃		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)		Approved
			17.7 N		
Low Temperature Storage Life	77	JESD22-A119	-55 ℃, 1000 h		Approved

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