Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
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Product / Process Change Notification (PCN)

☒ Major Change
☐ Minor Change

PCN Number:	PCN_UtPPTI MID_20240808
Affected Series:	WE-PPTI-1308
Affected Order Codes:	750319692, 750320324
PCN Date:	2024-05-08 (YYYY-MM-DD)
Effective Date:	2024-08-08 (YYYY-MM-DD)

Change Category:

☐ Equipment/Location
☒ General Data
☐ Material
☐ Process
☒ Product Design
☐ Shipping/Packaging
☐ Supplier
☐ Software

Contact:	Product Management
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Datasheet Change:
☒ Yes ☐ No

Attachment:
☐ Yes ☒ No

Description of Change:

With the aim of an extended product applicability, Würth Elektronik will increase the Voltage-Time and Inductance of 750319692. As a result, DC Resistance, Leakage Inductance, and Interwinding Capacitance will also increase.
As a datasheet information amendment, Würth Elektronik will increase the DC Resistance 1 specification of 750320324.
There will be no change in form, fit, 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).

Details of Change:

Application testing was done on 750319692 using the SN6507 Evaluation Module (SN6507DGQEVM). 12 V was applied to the input, the operating frequency was set to 400 kHz using a function generator, and an electronic load was used to draw current from the output. The temperature of the part was measured at multiple current increments. It was discovered that at no-load, the transformer would heat up considerably, limiting the current rating of the part. To decrease the no-load temperature rise of the transformer at 400 kHz, the Voltage–µsecond of 750319692 will increase from 19.8 Vµs to 28 Vµs, and the Inductance of 750319692 will increase from 100 µH min. to 260 µH min. DC Resistance 1, DC Resistance 2, Leakage Inductance, and Interwinding Capacitance will also increase.
Despite this design change, 750319692 will still be able to operate at 1MHz and the turns ratio will still be the same.
To reduce scrap rate in our factory, the DC Resistance 1 property for 750320324 will increase from 0.37 Ω max. to 0.39 Ω max. See the before change in red and the after change in green.

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Changes to 750319692:

	Before Change	After Change
Inductance	100 µH min.	260 µH min.
DC Resistance 1	0.13 Ω max.	0.17 Ω max.
DC Resistance 2	0.175 Ω max.	0.27 Ω max.
Leakage Inductance	200 nH typ.	230 nH typ.
Interwinding Capacitance	11 pF typ.	15 pF typ.
Voltage-uSecond	19.8 Vµs	28 Vµs

Changes to 750320324:

	Before Change	After Change
DC Resistance 1	0.37 Ω max.	0.39 Ω max.

Reliability / Qualification of Change:

Product approval is according to the specification criteria and is internally released by the Product Management Department.