

Würth Elektronik eiSos GmbH & Co. KG

EMC & Inductive Solutions

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Product / Process Change Notification (PCN)

- Major change
 Minor change

PCN #: PCN_IndXHMI_20210616

Affected Series: WE-XHMI Series;
6030: 74439344xxx
6060: 74439346xxx
8080: 74439358xxx
1090: 74439369xxx
1510: 74439370xxx

PCN Date: March 16, 2021

Effective Date: June 16, 2021

Change Category:

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

Contact: Product Management

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Data Sheet Change:

Yes No

Attachment:

Yes No

DESCRIPTION AND PURPOSE OF CHANGE:

In order to enhance the product efficiency Würth Elektronik will change the core material composition of the WE-XHMI series. The improved series will be qualified according to AEC-Q200.

Additionally, because of a database mismatch, Würth Elektronik will change the RDC within sizes 8080, 1090 and 1510.

There will be no change in form or fit of the product.

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**DETAIL OF CHANGE:**

Products after product change with effective date of June 16th, 2021 can be identified with the following lot number specification:

Lot No: 321 xx xxx xxxx **001**

The change in the core material composition will result in the following electrical parameter alterations:

Size 6030:

Part number	Saturation current before change [A]	Saturation current after change [A]	SRF before change [MHz]	SRF after change [MHz]
	30 %	30 %	typ.	typ.
744393440018	39.00	50.60	168	169
744393440033	31.00	42.90	127	113
744393440056	30.50	30.80	110	77
74439344010	27.50	24.95	59	59
74439344012	26.00	21.60	55	53
74439344022	16.00	16.25	36	37
74439344033	14.50	14.50	34	31
74439344047	13.00	10.50	24	28

Size 6060:

Part number	Saturation current before change [A]	Saturation current after change [A]	SRF before change [MHz]	SRF after change [MHz]
	30 %	30 %	typ.	typ.
74439346047	14.70	13.00	25	28
74439346056	13.60	12.10	22	25
74439346068	10.00	11.30	21.5	22
74439346082	8.40	9.30	21	19
74439346100	7.60	9.70	16	18
74439346150	6.30	7.40	9	14

Size 8080:

Part number	Saturation current before change [A]	Saturation current after change [A]	SRF before change [MHz]	SRF after change [MHz]	RDC before change [mΩ]	RDC after change [mΩ]
	30 %	30 %	typ.	typ.	±10%	±10%
74439358010	34.00	38.15	51	53	2.1	2.1
74439358022	30.00	26.45	30	33	3.7	3.7
74439358047	20.50	16.65	25	22	8.65	8.65
74439358068	15.00	17.60	20	22	13.5	13
74439358100	13.00	13.50	17	17	20	19

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Size 1090:

Part number	Saturation current before change [A]	Saturation current after change [A]	SRF before change [MHz]	SRF after change [MHz]	RDC before change [mΩ]	RDC after change [mΩ]
	30 %	30 %	typ.	typ.	±10%	±10%
74439369022	34.00	32.10	23	28	2.2	2.2
74439369033	29.00	34.00	19	23	3.4	3.4
74439369047	27.00	28.05	18	21	5.4	5
74439369056	23.00	24.45	14	18	6.4	5.9
74439369068	21.50	23.25	13	16	7.6	7.16
74439369082	22.00	20.45	13.8	16	10.1	10
74439369100	20.00	20.30	9.7	14	11.4	11
74439369150	21.00	16.95	7.6	11	14.8	14.8

Size 1510:

Part number	Saturation current before change [A]	Saturation current after change [A]	SRF before change [MHz]	SRF after change [MHz]	RDC before change [mΩ]	RDC after change [mΩ]
	30 %	30 %	typ.	typ.	±10%	±10%
74439370047	58.00	47.40	12	16	3.5	3.1
74439370068	46.00	40.05	10.5	14	4.1	4.1
74439370082	44.00	36.40	10	11	6.5	5.5
74439370100	35.80	31.20	8	9	6.5	6.4
74439370150	34.00	26.10	7	8	11.3	10.5
74439370220	24.00	22.35	4.5	7	13.3	12.5
74439370330	24.50	18.15	5.4	5	18.05	18

RELIABILITY / QUALIFICATION SUMMARY:

Product approval is according to the AEC-Q200 and is internally released by the Product Management Department.

- High Temperature Exposure / MIL-STD-202G Method 108
- Temperature Cycling / JESD22 Method JA-104
- Biased Humidity / MIL-STD-202 Method 103
- Operational Life / MIL-PRF-27
- External Visual / MIL-STD-883 Method 2009
- Physical Dimension / JESD22 Method JB-100
- Resistance to Solvents / MIL-STD-202G Method 215
- Mechanical Shock / MIL-STD-202G Method 213
- Vibration / MIL-STD-202G Method 204
- Resistance to Soldering Heat / MIL-STD-202G Method 210
- ESD / AEC-Q200-002 or ISO/DIS10605
- Electrical Characterization / User Spec.
- Board Flex / AEC-Q200-005
- Terminal Strength(SMT) / AEC-Q200-006
- Low Temperature Storage Life / JESD22-A119