

Würth Elektronik eiSos GmbH &amp; Co. KG

EMC &amp; Inductive Solutions

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## Product / Process Change Notification (PCN)

- Major change  
 Minor change

**PCN #:** PCN\_UtWPCC\_20220228

**Affected Series:** 760308103147, 760308103305, 760308102306, 760308103307

**PCN Date:** November 30, 2021

**Effective Date:** February 28, 2022

### Change Category:

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

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### Data Sheet Change:

Yes  No

### Attachment:

Yes  No

### DESCRIPTION AND PURPOSE OF CHANGE:

Because of a database mismatch, some datasheet parameters of the articles 760308103147, 760308103305, 760308102306 and 760308103307 will be corrected.

### DETAIL OF CHANGE:

The Self Resonance Frequency values of the NFC antenna parts of the articles 760308103305, 760308102306 and 760308103307 and The lead length and lead distance of the part 760308103147 will be changed as follows.

760308103305: The Self Resonance Frequency of the NFC antenna is changed from 16 MHz to 50 MHz.

Before:

#### Electrical Properties:

Properties	Test conditions	Value		Unit	Tol.
		1	2		
Inductance	L 125 kHz/ 10 mA 13.56 MHz	8.8	1.4	µH	±10%
Q-Factor	Q 125 kHz/ 10 mA 13.56 MHz	30	47		typ.
Rated Current	$I_R$ $\Delta T = 40$ K	2.6	5	A	max.
Saturation Current	$I_{SAT}$	5	5	A	typ.
DC Resistance	$R_{DC}$ @ 20 °C	220	100	mΩ	max.
DC Resistance	$R_{DC}$ @ 20 °C	190	80	mΩ	typ.
Self Resonant Frequency	$f_{res}$	22	16	MHz	

After:

#### Electrical Properties:

Properties	Test conditions	Value		Unit	Tol.
		1	2		
Inductance	L 125 kHz/ 10 mA 13.56 MHz	8.8	1.4	µH	±10%
Q-Factor	Q 125 kHz/ 10 mA 13.56 MHz	30	47		typ.
Rated Current DC	$I_{RDC}$ $\Delta T = 40$ K	2.6	5	A	max.
DC Resistance	$R_{DC}$ @ 20 °C	190	80	mΩ	typ.
DC Resistance	$R_{DC}$ @ 20 °C	220	100	mΩ	max.
Self Resonant Frequency	$f_{res}$	22	50	MHz	typ.

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760308102306: The Self Resonance Frequency of the NFC antenna is changed from 19 MHz to 50 MHz.

Before:

Electrical Properties:

Properties	Test conditions	Value		Unit	Tol.
		1	2		
Inductance	L 125 kHz/ 10 mA 13.56 MHz	8	1.4	µH	±10%
Q-Factor	Q 125 kHz/ 10 mA 13.56 MHz	19	47		typ.
Rated Current	$I_{RDC}$ $\Delta T = 40$ K	2	5	A	max.
Saturation Current	$I_{SAT}$	5	5	A	typ.
DC Resistance	$R_{DC}$ @ 20 °C	400	100	mΩ	max.
DC Resistance	$R_{DC}$ @ 20 °C	330	80	mΩ	typ.
Self Resonant Frequency	$f_{res}$	17.5	19	MHz	

After:

Electrical Properties:

Properties	Test conditions	Value		Unit	Tol.
		1	2		
Inductance	L 125 kHz/ 10 mA 13.56 MHz	8	1.4	µH	±10%
Q-Factor	Q 125 kHz/ 10 mA 13.56 MHz	19	47		typ.
Rated Current DC	$I_{RDC}$ $\Delta T = 40$ K	2	5	A	max.
DC Resistance	$R_{DC}$ @ 20 °C	330	80	mΩ	typ.
DC Resistance	$R_{DC}$ @ 20 °C	400	100	mΩ	max.
Self Resonant Frequency	$f_{res}$	17.5	50	MHz	typ.

760308103307: The Self Resonance Frequency of the NFC antenna is changed from 24 MHz to 54 MHz.

Before:

Electrical Properties:

Properties	Test conditions	Value		Unit	Tol.
		1	2		
Inductance	L 125 kHz/ 10 mA 13.56 MHz	7.8	1.6	µH	±10%
Q-Factor	Q 125 kHz/ 10 mA 13.56 MHz	19	47		typ.
Rated Current	$I_{RDC}$ $\Delta T = 40$ K	1.5	4	A	max.
Saturation Current	$I_{SAT}$	3	7	A	typ.
DC Resistance	$R_{DC}$ @ 20 °C	340	90	mΩ	max.
DC Resistance	$R_{DC}$ @ 20 °C	330	80	mΩ	typ.
Self Resonant Frequency	$f_{res}$	22	24	MHz	

After:

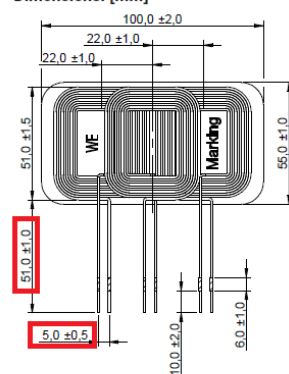
Electrical Properties:

Properties	Test conditions	Value		Unit	Tol.
		1	2		
Inductance	L 125 kHz/ 10 mA 13.56 MHz	7.8	1.6	µH	±10%
Q-Factor	Q 125 kHz/ 10 mA 13.56 MHz	19	47		typ.
Rated Current DC	$I_{RDC}$ $\Delta T = 40$ K	1.5	4	A	max.
DC Resistance	$R_{DC}$ @ 20 °C	330	80	mΩ	typ.
DC Resistance	$R_{DC}$ @ 20 °C	340	90	mΩ	max.
Self Resonant Frequency	$f_{res}$	22	54	MHz	typ.

760308103147: The lead length is changed from 51.0 mm ± 1.0 mm to 49.0 mm ± 1.5 mm. The lead distance is changed from 5.0 mm ± 0.5 mm to 5.0 mm ref.

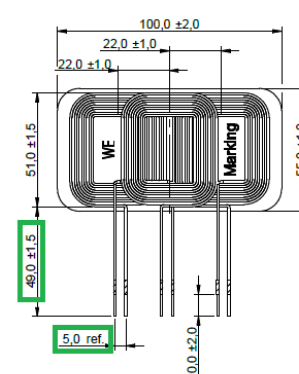
Before:

Dimensions: [mm]



After:

Dimensions: [mm]



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**RELIABILITY / QUALIFICATION SUMMARY:**

Process / Product approval is according to internal requirements released by the Total Quality Department and the Product Management Department.