

Würth Elektronik eiSos GmbH &amp; Co. KG

EMC &amp; Inductive Solutions

Max-Eyth-Straße 1 · 74638 Waldenburg · Germany

Tel. +49 (0) 79 42 945-0 · Fax +49 (0) 79 42 945-400

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## Product / Process Change Notification (PCN)

- Major change  
 Minor change

**PCN #:** PCN\_FeCBFHF\_20200303

**Affected Series:** WE-CBF HF

**PCN Date:** December 03, 2019

**Effective Date:** March 03, 2020

### 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:

For the purpose of a data sheet information enlargement, Würth Elektronik will update the rated current value and the maximum impedance value based on new measurement data.

In order to show the latest representation in the data sheet, all products were remeasured according to an updated measurement setup. This new method of measurement is able to provide impedance values up to 8GHz with DC-bias currents until the maximum rated current of the part. Due to this, a renewal of typical curves will yield different maximum impedance values. These new measurements will be present in RedExpert and the updated data sheets.

The label update will be effective from date code 2020-01-01 or later.

This is only a data sheet and label change update. There will be no change in form, fit, function, quality or reliability of the product.

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DETAIL OF CHANGE:	
Before Change	After Change
<p>Rated current before change said to be at <math>\Delta T=40K</math>.</p> <p>742843122 <math>I_R = 500mA</math>            742863122 <math>I_R = 600mA</math>            742863147 <math>I_R = 500mA</math></p>	<p>The rated current before change were pervious values of <math>\Delta T=20K</math>. After change the rated current values are now for <math>\Delta T=40K</math> definition.</p> <p>742843122 <math>I_R = 800mA</math>            742863122 <math>I_R = 1300mA</math>            742863147 <math>I_R = 750mA</math></p> <p>Label description will be updated to the new values.</p>
<p>Maximum Impedance at Frequency</p> <p>742841160 <math>Z_{max} = 1300 \Omega @ 550 MHz</math>            742841210 <math>Z_{max} = 1700 \Omega @ 550 MHz</math>            742863122 <math>Z_{max} = 550 \Omega @ 700 MHz</math>            742861118 <math>Z_{max} = 270 \Omega @ 500 MHz</math>            742861160 <math>Z_{max} = 1000 \Omega @ 450 MHz</math>            742861210 <math>Z_{max} = 2200 \Omega @ 550 MHz</math>            742862160 <math>Z_{max} = 1700 \Omega @ 700 MHz</math>            742863122 <math>Z_{max} = 500 \Omega @ 600 MHz</math>            742863147 <math>Z_{max} = 1000 \Omega @ 600 MHz</math>            742863160 <math>Z_{max} = 1250 \Omega @ 500 MHz</math></p>	<p>Maximum Impedance at Frequency amendment according to the typical curves produced from a newly released measurement method.</p> <p>742841160 <math>Z_{max} = 1800 \Omega @ 650 MHz</math>            742841210 <math>Z_{max} = 1750 \Omega @ 500 MHz</math>            742863122 <math>Z_{max} = 400 \Omega @ 750 MHz</math>            742861118 <math>Z_{max} = 300 \Omega @ 450 MHz</math>            742861160 <math>Z_{max} = 900 \Omega @ 350 MHz</math>            742861210 <math>Z_{max} = 2200 \Omega @ 450 MHz</math>            742862160 <math>Z_{max} = 1500 \Omega @ 700 MHz</math>            742863122 <math>Z_{max} = 350 \Omega @ 640 MHz</math>            742863147 <math>Z_{max} = 780 \Omega @ 600 MHz</math>            742863160 <math>Z_{max} = 950 \Omega @ 600 MHz</math></p> <p>No change in label.</p>

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**RELIABILITY / QUALIFICATION SUMMARY:**

There will be no change of the product, therefore no additional reliability or qualification testing will be performed.