

Product / Process Change Notification (PCN)

- ☒ Major Change
- ☐ Minor Change

PCN Number: PCN_WCAP-FTBE_20240930

Affected Series: WCAP-FTBE

Affected Order Codes: See table below

PCN Date: 2024-06-30 (YYYY-MM-DD)

Effective Date: 2024-09-30 (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

Fax: +49 (0) 7942 - 945 5179

E-Mail: pcn.eisos@we-online.com

Datasheet Change:

- ☒ Yes
- ☐ No

Attachment:

- ☐ Yes
- ☒ No

Description of Change:

Because of a database mismatch, Würth Elektronik eiSos will update datasheets for the series WCAP-FTBE. In the meantime to increase the production capability, Würth Elektronik eiSos will change the product marking. There will be no change in form, fit, function, quality or reliability of the product.

Affected Order Codes:

890303427009	890303428008	890263425004CS	890263426001CS	890263426003CS
890273422002CS	890273423002CS	890273423006CS	890273425001CS	890273425007CS
890273425011CS	890273426004CS	890273427005CS	890283422001CS	890283422005CS
890283423001CS	890283425002CS	890283425008CS	890283425010CS	890283425012CS
890283426004CS	890283426008CS	890283427007CS	890283428007CS	890303422005CS
890303423005CS	890303425004CS	890303426008CS	890303427009CS	890303428008CS
890493422002CS	890493423001CS	890493423003CS	890493425001CS	890493425009CS
890493426011CS	890493427007CS	890493428013CS		

Details of Change:

1 Change of Datasheets

Würth Elektronik eiSos will update the datasheet layout in general for the order codes mentioned above. With this layout update we will also correct the electrical and mechanical characteristics. All corrections in terms of electrical characteristics are shown below.

1.1 Würth Elektronik eiSos will update the dimensioning from an **indirect dimensioning** to **direct dimensioning**. The table will be removed and all dimension values will be shown directly in the drawings.

And the **"Top Cover Marking"** will be removed based on the new marking, details will be explained in 2.

Before Change

Properties		Value	Unit	Tol.
Pitch		10	mm	±0.5
Length	L	13	mm	±1.5
Height	H	11	mm	±1
Width	W	5	mm	±1
Pin Diameter	Ø F	0.6	mm	±0.05
Pin Hole Diameter	Ø f	0.9	mm	±0.05
Pin length	G	4	mm	±0.5
Pitch	p	10	mm	±0.5

After Change

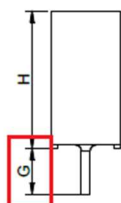
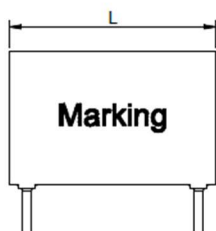
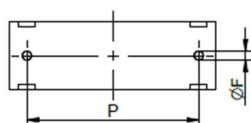
1.2 Würth Elektronik eiSos will correct the **Pin length** for below order codes. Of course like mentioned above, for other values will be also shown directly in the drawings.

890303427009

890303428008

Before Change

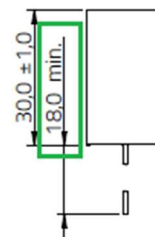
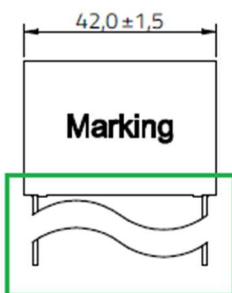
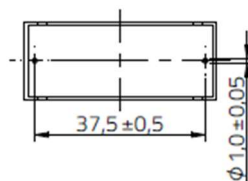
Pin length "20 ± 0.5 mm"



Properties		Value	Unit	Tol.
Pitch	P	37.5	mm	±0.5
Length	L	42	mm	±1.5
Height	H	30	mm	±1
Width	W	17	mm	±1
Pin Diameter	Ø F	1	mm	±0.05
Pin length	G	20	mm	±0.5
Pitch	p	37.5	mm	±0.5
Pin Hole Diameter	Ø f	1.3	mm	±0.05

After Change

Pin length "18 mm min. "





1.3 Würth Elektronik eiSos will add the **Test Conditions and Tolerance of Rated Voltage under 85 °C** for all order codes mentioned above.

Before Change	After Change
Test conditions: Blank Tolerance: Blank	Test conditions: up to 85 °C Tolerance: max.

1.4 Würth Elektronik eiSos will add the **Values and Test conditions of Rated Voltage under 105 °C** for all order codes mentioned above. The values are different for different parts, for details please refer datasheets.

1.5 Würth Elektronik eiSos will add the **Temperature in the Test conditions** and **Tolerance of Dielectric Strength Pin to Pin.**

Before Change	After Change
Test conditions: 1 min. Tolerance: Blank	Test conditions: 1 min. @ 20 °C Tolerance: max.

1.6 Würth Elektronik eiSos will add the **Temperature in the Test conditions** and **Tolerance of Dielectric Strength Pin to Case.**

Before Change	After Change
Test conditions: 5 sec. Tolerance: Blank	Test conditions: 5 sec. @ 20 °C Tolerance: max.

1.7 Würth Elektronik eiSos will update the display of the **Insulation Resistance** for below order codes.

Order Codes	Before Change	After Change	Order Codes	Before Change	After Change
890303427009	3000 Ω x F	2 GΩ	890283425012CS	3000 Ω x F	2 GΩ
890303428008	3000 Ω x F	909.09 MΩ	890283426004CS	3000 Ω x F	6.38 GΩ
890263425004CS	3000 Ω x F	1.36 GΩ	890283426008CS	3000 Ω x F	3 GΩ
890263426001CS	3000 Ω x F	1.36 GΩ	890283427007CS	3000 Ω x F	909.09 MΩ
890263426003CS	3000 Ω x F	909.09 MΩ	890283428007CS	3000 Ω x F	441.18 MΩ
890273422002CS	9000 MΩ	9 GΩ	890303422005CS	9000 MΩ	9 GΩ
890273423002CS	9000 MΩ	9 GΩ	890303423005CS	9000 MΩ	9 GΩ
890273423006CS	3000 Ω x F	6.38 GΩ	890303425004CS	9000 MΩ	9 GΩ
890273425001CS	9000 MΩ	9 GΩ	890303426008CS	3000 Ω x F	6.38 GΩ
890273425007CS	3000 Ω x F	3 GΩ	890303427009CS	3000 Ω x F	2 GΩ
890273425011CS	3000 Ω x F	1.36 GΩ	890303428008CS	3000 Ω x F	909.09 MΩ
890273426004CS	3000 Ω x F	2 GΩ	890493422002CS	9000 MΩ	9 GΩ



890273427005CS	3000 Ω x F	638.3 M Ω	890493423001CS	9000 M Ω	9 G Ω
890283422001CS	9000 M Ω	9 G Ω	890493423003CS	9000 M Ω	9 G Ω
890283422005CS	9000 M Ω	9 G Ω	890493425001CS	9000 M Ω	9 G Ω
890283423001CS	9000 M Ω	9 G Ω	890493425009CS	9000 M Ω	9 G Ω
890283425002CS	9000 M Ω	9 G Ω	890493426011CS	9000 M Ω	9 G Ω
890283425008CS	3000 Ω x F	4.41 G Ω	890493427007CS	3000 Ω x F	6.38 G Ω
890283425010CS	3000 Ω x F	3 G Ω	890493428013CS	3000 Ω x F	638.3 M Ω

1.8 Würth Elektronik eiSos will add the **Moisture Sensitivity Level (MSL)** in **General Information**.

Before Change	After Change
None	MSL = 1

1.9 Würth Elektronik eiSos will add the **Climatic Category** in **General Information**.

Before Change	After Change
None	Climatic Category : 40 / 105 / 56

1.10 Würth Elektronik eiSos will update the **Storage Conditions (In original packaging)** in **General Information**.

Before Change	After Change
5-35 °C, < 75 % RH	5 °C up to + 35 °C; 10 % up to 75 % RH

1.11 Würth Elektronik eiSos will correct the **Operating Temperature** in **General Information** for below order code.

890283425010CS

Before Change	After Change
-40 up to +105 °C	-40 up to +85 °C

1.12 Würth Elektronik eiSos will correct the **Maximum Selfheating (Rated)** in **General Information** for below order code.

890273423006CS 890273426004CS

Before Change	After Change
7 °C	10 °C



1.13 Würth Elektronik eiSos will correct the **Technical reference** for below order codes.

Order Codes	Before Change	After Change
890263426001CS	MPSP225225K100DCPB45004	MPSP225225K100DCPP45004
890263426003CS	MPSP225335K100DCPB45004	MPSP225335K100DCPP35004
890273422002CS	MPSP075224K250DCPB15004	MPSP075224K250DCPP45004
890273423002CS	MPSP010224K250DCPB15004	MPSP010224K250DCPP55004
890273425001CS	MPSP015334K250DCPB15004	MPSP015334K250DCPP45004
890273425007CS	MPSP015105K250DCPB15004	MPSP015105K250DCPP45004
890273427005CS	MPSP275475K250DCPB55004	MPSP275475K250DCPP35004
890283422001CS	MPSP075683K400DCPB15004	MPSP075683K400DCPP45004
890283422005CS	MPSP075154K400DCPB15004	MPSP075154K400DCPP45004
890283423001CS	MPSP010104K400DCPB15004	MPSP010104K400DCPP55004
890283425002CS	MPSP015224K400DCPB15004	MPSP015224K400DCPP45004
890283426004CS	MPSP225474K400DCPB45004	MPSP225474K400DCPP45004
890283426008CS	MPSP225105K400DCPB45004	MPSP225105K400DCPP35004
890283427007CS	MPSP275335K400DCPB55004	MPSP275335K400DCPP25004
890283428007CS	MPSP375685K400DCPB65004	MPSP375685K400DCPP25004
890303422005CS	MPSP075473K630DCPB15004	MPSP075473K630DCPP45004
890303423005CS	MPSP010683K630DCPB15004	MPSP010683K630DCPP55004
890303426008CS	MPSP225474K630DCPB45004	MPSP225474K630DCPP35004
890303427009CS	MPSP275155K630DCPB55004	MPSP275155K630DCPP25004
890303428008CS	MPSP375335K630DCPB65004	MPSP375335K630DCPP25004
890493422002CS	MPSP075103KA00DCPB15004	MPSP075103KA00DCPP45004
890493423001CS	MPSP010153KA00DCPB15004	MPSP010153KA00DCPP55004
890493425001CS	MPSP015223KA00DCPB15004	MPSP015223KA00DCPP45004
890493426011CS	MPSP225224KA00DCPB45004	MPSP225224KA00DCPP35004
890493427007CS	MPSP275474KA00DCPB55004	MPSP275474KA00DCPP35004
890493428013CS	MPSP375475KA00DCPB65004	MPSP375475KA00DCPP25004

1.14 Würth Elektronik eiSos will add the **Certification Table** for the order codes mentioned above.

Before Change	None	
After Change	Certification:	
	RoHS Approval	Compliant [2011/65/EU&2015/863]
	REACH Approval	Conform or declared [(EC)1907/2006]
	Halogen Free	Conform [IEC 61249-2-21]
	Halogen Free	Conform [JEDEC JS709B]

1.15 Würth Elektronik eiSos will update the **Environmental Tests** into **Test items and standards** and in the meantime will correct the **Frequency** of **Vibration Test** and **Transfer Time** of **Temperature Cycles** for the order codes mentioned above.

Before Change	Environmental Tests:		
	Properties	Standard	
	Vibration	IEC 60068 - 2 - 6	all 3 directions, 2 hours each @ 15 - 55 - 15 Hz, amplitude 0.75 mm or 10 g
	Damp Heat	IEC 60068 - 2 - 78	40°C, 95% RH, 56 days
	Temperature Cycles	IEC 60068 - 2 - 14	5 cycles, upper and lower temperature 30 min. each 30 sec. transfer time
After Change	Test items and standards:		
	Properties	Standard	
	Vibration	IEC 60068 - 2 - 6	all 3 directions, 2 hours each @ 10 - 55 - 10 Hz, amplitude 0.75 mm or 10 g
	Damp Heat	IEC 60068 - 2 - 78	40°C, 95% RH, 56 days
	Temperature Cycles	IEC 60068 - 2 - 14	5 cycles, upper and lower temperature 30 minutes each, 3 minutes Max transfer time

1.16 Würth Elektronik eiSos will update the **SPQ** and **Carton Quantity** for below order codes. The carton sizes won't be changed.

890263425004CS	890283425008CS	890493425009CS
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Before Change	After Change
SPQ : 928 pcs	SPQ : 960 pcs
Carton Quantity : 5568 pcs	Carton Quantity : 5760 pcs



1.17 Würth Elektronik eiSos will correct the **Packaging Type** for below order codes. This is only a correction of packaging in datasheets but the packaging for real products won't be changed.

890263426001CS	890263426003CS	890273422002CS	890273423002CS	890273425001CS
890273425007CS	890273425011CS	890273427005CS	890283422001CS	890283422005CS
890283423001CS	890283425002CS	890283426004CS	890283426008CS	890283427007CS
890283428007CS	890303422005CS	890303423005CS	890303426008CS	890303427009CS
890303428008CS	890493422002CS	890493423001CS	890493425001CS	890493426011CS
890493427007CS	890493428013CS			

	Before Change	After Change
Type:	Bulk Type	Carton Type
SPQ and Carton Quantity:	Different sizes may have different values, specifications please refer datasheets	Different sizes may have different values, specifications please refer datasheets
Size of inner box:	$L_{IC} \times W_{IC} \times H_{IC} = 350 \times 275 \times 200$	$L_{IC} \times W_{IC} \times H_{IC} = 275 \times 160 \times 95$
Size of Carton:	$L_C \times W_C \times H_C = 580 \times 370 \times 220$	$L_C \times W_C \times H_C = 500 \times 290 \times 240$

1.18 Würth Elektronik eiSos will update the **Cautions and Warnings** into **Version 2.2** for all the order codes mentioned above and specifications please refer datasheets.



2 Change of Product Marking

Due to the process optimization the printing type for this series will be changed from **Ink marking** to **Laser printing**. Laser printing will be better to show the data on the surface of the components.

2.1 Würth Elektronik eiSos will change the printing type and in the meantime change the printing on the surface of the component cases: the top marking for **Datecode (For example JO1)** will be removed to the side marking.

Below is only an example and different products will have different marking because of the different voltages, capacitances and datecodes, specifications please refer the real products and datasheets.

	Before Change	After Change
Type:	Ink Printing	Laser Printing
Side Marking:		
Top Marking:		

2.2 Würth Elektronik eiSos will update the **Product Marking Table** on datasheets based on the new marking.

Below is only an example and specifications please refer datasheets.

Before Change	Product Marking: <table> <tr> <td>1st Line right</td><td>Matchcode: FTBE</td></tr> <tr> <td>2nd Line right</td><td>Rated Voltage: 630 V</td></tr> <tr> <td>1st Line left</td><td>Capacitance & Tolerance Code: 335K (Basis pF)</td></tr> <tr> <td>Top Cover Marking P < 15</td><td>Date Code: YWW</td></tr> <tr> <td>Top Cover Marking P ≥ 15</td><td>Date Code & Capacitance & Tolerance Code</td></tr> </table>	1 st Line right	Matchcode: FTBE	2 nd Line right	Rated Voltage: 630 V	1 st Line left	Capacitance & Tolerance Code: 335K (Basis pF)	Top Cover Marking P < 15	Date Code: YWW	Top Cover Marking P ≥ 15	Date Code & Capacitance & Tolerance Code
1 st Line right	Matchcode: FTBE										
2 nd Line right	Rated Voltage: 630 V										
1 st Line left	Capacitance & Tolerance Code: 335K (Basis pF)										
Top Cover Marking P < 15	Date Code: YWW										
Top Cover Marking P ≥ 15	Date Code & Capacitance & Tolerance Code										
After Change	Product Marking: <table> <tr> <td>1st Line right</td><td>Matchcode: FTBE</td></tr> <tr> <td>2nd Line right</td><td>Rated Voltage: 630 V (DC)</td></tr> <tr> <td>Bottom Line</td><td>Capacitance & Tolerance Code: 335K (Basis pF), Date Code (YWW), Internal Marking</td></tr> </table>	1 st Line right	Matchcode: FTBE	2 nd Line right	Rated Voltage: 630 V (DC)	Bottom Line	Capacitance & Tolerance Code: 335K (Basis pF), Date Code (YWW), Internal Marking				
1 st Line right	Matchcode: FTBE										
2 nd Line right	Rated Voltage: 630 V (DC)										
Bottom Line	Capacitance & Tolerance Code: 335K (Basis pF), Date Code (YWW), Internal Marking										



Reliability / Qualification of Change:

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

The following items are part of the internal release process:

Test Item	Sample Size	Reference	Test Conditions	Acceptance
Visual Appearance	10	Product specification	Room temperature	Approved
Mechanical Parameters	10	Product specification	Room temperature	Approved
Electrical Parameters	10	Product specification	Room temperature	Approved