Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
Max-Eyth-Straße 1 · 74638 Waldenburg · Germany
Tel. +49 7942 945-0 · Fax +49 7942 945-5000
eiSos@we-online.com · www.we-online.com

Product / Process Change Notification (PCN)

☒ Major Change
☐ Minor Change

PCN Number:	PCN_WCAP-FTBP_20241130
Affected Series:	WCAP-FTBP
Affected Order Codes:	See table below
PCN Date:	2024-07-30 (YYYY-MM-DD)
Effective Date:	2024-11-30 (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-FTBP.
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:

890273322005CS	890273323004CS	890273325005CS	890273325009CS	890273326003CS
890273326007CS	890273327007CS	890273327011CS	890283322006CS	890283322006CSB
890283323001CS	890283323005CS	890283325002CS	890283325008CS	890283325010CS
890283326003CS	890283326007CS	890283326009CS	890283327004CS	890283327008CS
890283327010CS	890293326001CS	890303322003CS	890303322005CS	890303323004CS
890303325004CS	890303325008CS	890303325010CS	890303325014AP	890303326003CS
890303326009CS	890303327008CS	890443322001CS	890443323004CS	890443323006CS
890443325010CS	890443326007CS	890443326013CS	890443327007CS	

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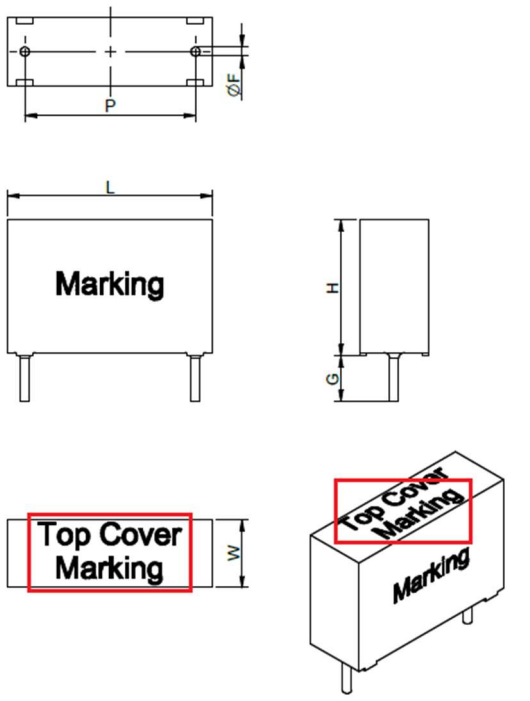
Details of Change:

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.

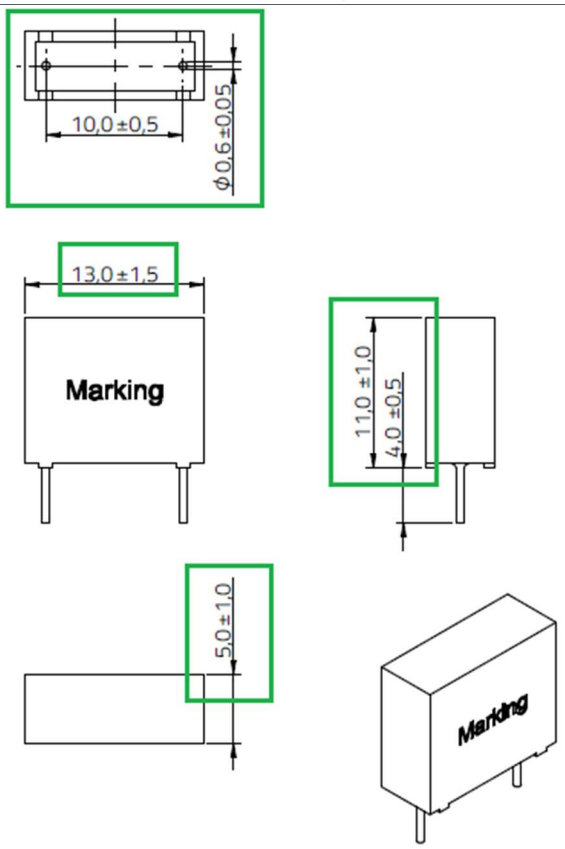
1.1 Würth Elektronik eiSos will update the dimensioning from an **indirect dimensioning** to **direct dimensioning**. The table will be removed and all dimension values will be shown directly in the drawings.
And the "**Top Cover Marking**" will be removed based on the new marking, details will be explained 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



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1.2 Würth Elektronik eiSos will add the **Tolerance of Rated Voltage** for all order codes mentioned above.

Before Change	After Change
Tolerance: Blank	Tolerance: max.

1.3 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.

1.4 Würth Elektronik eiSos will update the **Values** of **Dielectric Strength Pin to Pin** for below order codes**.**

890303322005CS	890303325008CS	890303325010CS

Before Change	After Change
845 V(DC)	945 V(DC)

1.5 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.

1.6 Würth Elektronik eiSos will add the **Tolerance of DF @ 1 kHz, @ 10 kHz, @ 100 kHz** for all order codes mentioned above.

Before Change	After Change
Tolerance: Blank	Tolerance: max.

1.7 Würth Elektronik eiSos will update the **Values** of **DF @ 10 kHz** for below order code**.**

890303323004CS

Before Change	After Change
10 %	0.1 %

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1.8 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**
890273322005CS	300000 M Ω	30 G Ω	890283327008CS	10000 M x F	4.55 G Ω
890273323004CS	300000 M Ω	30 G Ω	890283327010CS	10000 M x F	3.03 G Ω
890273325005CS	10000 M x F	21.28 G Ω	890303322003CS	30000 M Ω	30 G Ω
890273325009CS	10000 M x F	10 G Ω	890303322005CS	33000 M Ω	30 G Ω
890273326003CS	10000 M x F	14.71 G Ω	890303323004CS	30000 M Ω	30 G Ω
890273326007CS	10000 M x F	6.67 G Ω	890303325004CS	30000 M Ω	30 G Ω
890273327007CS	10000 M x F	2.13 G Ω	890303325008CS	30000 M Ω	30 G Ω
890283322006CS	30000 M x F	30 G Ω	890303325010CS	30000 M Ω	30 G Ω
890283323001CS	30000 M x F	30 G Ω	890303326003CS	30000 M Ω	30 G Ω
890283323005CS	30000 M x F	30 G Ω	890303326009CS	10000 M x F	21.28 G Ω
890283325002CS	30000 M x F	30 G Ω	890303327008CS	10000 M x F	6.67 G Ω
890283325008CS	30000 M x F	30 G Ω	890443322001CS	30000 M Ω	30 G Ω
890283326003CS	30000 M x F	30 G Ω	890443323004CS	30000 M Ω	30 G Ω
890283326007CS	10000 M x F	14.71 G Ω	890443323006CS	30000 M x F	21.28 G Ω
890283326009CS	10000 M x F	10 G Ω	890443325010CS	10000 M x F	4.55 G Ω
890283327004CS	10000 M x F	10 G Ω	890443326007CS	10000 M x F	3.03 G Ω
890443327007CS	10000 M x F	1.47 G Ω			

1.9 Würth Elektronik eiSos will update the **Test Conditions** of **Insulation Resistance** for below order codes**.**

890303326003CS

Before Change	**After Change**
1 min @ 100 V (DC)	1 min @ 500 V (DC)

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

Before Change	**After Change**
None	MSL = 1

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

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

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1.12 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

1.13 Würth Elektronik eiSos will update the **Technical Reference** for below order codes.

Order Code	Before Change	After Change
890273322005CS	MPPP075154J250DCPB15004	MPPP075154J250DCPP45004
890273323004CS	MPPP010224J250DCPB15004	MPPP010224J250DCPP45004
890273325005CS	MPPP015474J250DCPB15004	MPPP015474J250DCPP45004
890273325009CS	MPPP015105J250DCPB15004	MPPP015105J250DCPP45004
890273326003CS	MPPP225684J250DCPB45004	MPPP225684J250DCPP45004
890273326007CS	MPPP225155J250DCPB45004	MPPP225155J250DCPP35004
890273327007CS	MPPP275475J250DCPB55004	MPPP275475J250DCPP35004
890283322006CS	MPPP075683J400DCPB15004	MPPP075683J400DCPP45004
890283323001CS	MPPP010473J400DCPB15004	MPPP010473J400DCPP55004
890283323005CS	MPPP010104J400DCPB15004	MPPP010104J400DCPP55004
890283325002CS	MPPP015104J400DCPB15004	MPPP015104J400DCPP45004
890283325008CS	MPPP015334J400DCPB15004	MPPP015334J400DCPP45004
890283326003CS	MPPP225334J400DCPB45004	MPPP225334J400DCPP45004
890283326009CS	MPPP225105J400DCPB45004	MPPP225105J400DCPP35004
890283327004CS	MPPP275105J400DCPB55004	MPPP275105J400DCPP35004
890283327008CS	MPPP275225J400DCPB55004	MPPP275225J400DCPP25004
890283327010CS	MPPP275335J400DCPB55004	MPPP275335J400DCPP25004
890303322005CS	MPPP075333J630DCPB15004	MPPP075333J630DCPP45004
890303325004CS	MPPP015683J630DCPB15004	MPPP015683J630DCPP45004
890303325008CS	MPPP015154J630DCPB15004	MPPP015154J630DCPP45004
890303325010CS	MPPP015224J630DCPB15004	MPPP015224J630DCPP45004
890303326003CS	MPPP225154J630DCPB45004	MPPP225154J630DCPP45004
890303326009CS	MPPP225474J630DCPB45004	MPPP225474J630DCPP35004

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1.14 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

1.15 Würth Elektronik eiSos will correct the **Standards in Test Conditions** for the order codes mentioned above.

Before Change

Mechanical Properties

Properties	Test Conditions	File	Lead Diameter [mm]	Force [N]	condition
Termination Robustness	IEC 600668 - 2 - 21	Pull Test	0.5 to ≤ 0.8	10	min. 10 sec.
			0.9 to ≤ 1.25	20	min. 10 sec.
		Bend Test	0.5 to ≤ 0.8	5	min. 2 cycles
			0.9 to ≤ 1.25	10	min. 2 cycles

After Change

Mechanical Properties:

Properties	Test Conditions		Lead Diameter [mm]	Force [N]	condition
Termination Robustness	IEC 60068 - 2 - 21	Pull Test	0.5 to ≤ 0.8	10	min. 10 sec.
			0.9 to ≤ 1.25	20	min. 10 sec.
		Bend Test	0.5 to ≤ 0.8	5	min. 2 cycles
			0.9 to ≤ 1.25	10	min. 2 cycles

Würth Elektronik eiSos GmbH & Co. KG Sitz Waldenburg, Registergericht Stuttgart HRA 580801
Komplementär Würth Elektronik eiSos Verwaltungs-GmbH, Sitz Waldenburg, Registergericht Stuttgart HRB 581033
Geschäftsführer Thomas Wild, Alexander Gerfer, Dirk Knorr, Josef Wörner
Bankverbindung UniCredit Bank AG Stuttgart, Konto 322 620 136, BLZ 600 202 90, IBAN DE86 6002 0290 0322 6201 36, SWIFT/BIC HYVEDEMM473
USt.-IdNr. DE220618976

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1.16 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]

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

890283325010CS

Before Change	**After Change**
SPQ : 928 pcs Carton Quantity : 5568 pcs	SPQ : 960 pcs Carton Quantity : 5760 pcs

1.18 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.

890273322005CS	890273323004CS	890273325005CS	890273325009CS	890273326003CS
890273326007CS	890273327007CS	890283322006CS	890283323001CS	890283323005CS
890283325002CS	890283325008CS	890283326003CS	890283326009CS	890283327004CS
890283327008CS	890283327010CS	890303322005CS	890303323004CS	890303325004CS
890303325008CS	890303325010CS	890303326003CS	890303326009CS	890303327008CS
890443322001CS	890443323004CS	890443326007CS	890443327007CS	

	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} x W_{IC} x H_{IC}=350 x 275 x 200	L_{IC} x W_{IC} x H_{IC}=275 x 160 x 95
Size of Carton:	L_C x W_C x H_C=580 x 370 x 220	L_C x W_C x H_C=500 x 290 x 240

1.19 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.

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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:

1st Line	Matchcode: WCAP-FTBP
2nd Line right	Rated Voltage: 400 V
1st Line left	Capacitance & Tolerance Code: 473 J (Basis pF)
Top Cover Marking P < 15	Date Code: YWW
Top Cover Marking P ≥ 15	Date Code & Capacitance & Tolerance Code

After Change

Product Marking:

1st Line right	Matchcode: FTBP
2nd Line right	Rated Voltage: 250 V (DC)
Bottom Line	Capacitance & Tolerance Code: 154 J (Basis pF), Date Code (YWW), Internal Marking

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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