



<b>Product / Process Change Notification (PCN)</b>	
<input checked="" type="checkbox"/> Major Change <input type="checkbox"/> Minor Change	
<b>PCN Number:</b> PCN_FeAFB_20241220  <b>Affected Series:</b> WE-AFB  <b>Affected Order Codes:</b> See table below  <b>PCN Date:</b> 2024-09-20 (YYYY-MM-DD) <b>Effective Date:</b> 2024-12-20 (YYYY-MM-DD)	<b>Change Category:</b> <input type="checkbox"/> Equipment/Location <input checked="" type="checkbox"/> General Data <input type="checkbox"/> Material <input type="checkbox"/> Process <input type="checkbox"/> Product Design <input type="checkbox"/> Shipping/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> Software
<b>Contact:</b> Product Management  <b>Phone:</b> +49 (0) 7942 - 945 5001  <b>Fax:</b> +49 (0) 7942 - 945 5179  <b>E-Mail:</b> pcn.eisos@we-online.com	<b>Datasheet Change:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Attachment:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Description of Change:</b> <p>For the purpose of a datasheet information enlargement and internal standardization, Würth Elektronik will implement a new measurement setup to improve the accuracy and extend the comparability of values.</p> <p>This is a measurement method and datasheet visualization change only. There will be no change in form, fit, function, quality or reliability of the product.</p>	



**Details of Change:**

- The measurement setup will change to an internal standardized measurement setup, which uses a different length of measurement cable as the previous method - the cable length is defined in steps of 50 mm and depends on the length of the component.
  - Shortest possible cable for specification (**Electrical Properties**)
  - Shortest possible cable for 3 turns for typical impedance characteristics
- The content of the “**Electrical Properties:**” table will change:
  - The typical property “**Impedance @ xx MHz 2 turns**” will be removed
  - “**Test conditions**” will change to “Test cable: THICKNESS, LENGTH”

BEFORE CHANGE:					AFTER CHANGE:						
Properties		Test conditions	Value	Unit	Tol.	Properties		Test conditions	Value	Unit	Tol.
Impedance @ 1 MHz 1 turn	Z	1 MHz	130	Ω	±25%	Impedance @ 1 MHz 1 turn	Z	Test cable: AWG26, 100 mm	136	Ω	±25%
Impedance @ 10 MHz 1 turn	Z	10 MHz	100	Ω	±25%	Impedance @ 10 MHz 1 turn	Z	Test cable: AWG26, 100 mm	82	Ω	±25%

- “**Value**” will change according to the results of the new standardized measurement setup with the shortest possible cable length:

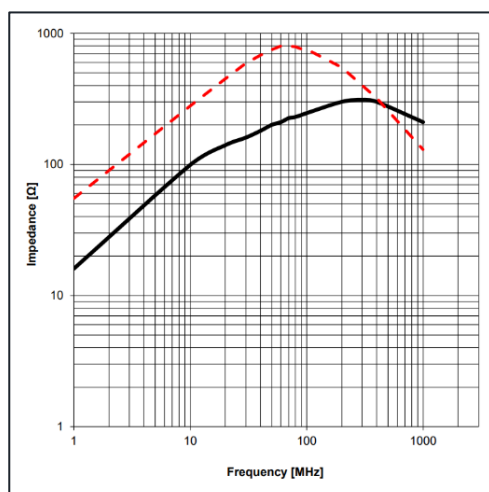
Order Code Impedance @	BEFORE CHANGE:		AFTER CHANGE:		
	25 MHz 1 turn (Ω)	100 MHz 1 turn (Ω)	25 MHz 1 turn (Ω)	100 MHz 1 turn (Ω)	short cable length (mm)
7427001	37	44	30	47	50
7427004	180	258	194	279	100
7427005	133	217	135	199	100
7427006	46	70	44	68	50
7427007	154	278	157	281	100
7427009	153	210	116	193	100
74270002	21	37	23	40	50
74270013	39	58	39	61	50
74270030	125	158	100	173	50
74270031	163	198	144	192	100
74270032	170	255	168	256	100
74270033	56	162	47	68	50
74270034	85	160	54	95	50
74270035	173	275	126	179	50
74270036	150	240	151	222	50
74270037	119	199	120	168	50
74270038	240	350	228	297	100
74270043	156	274	146	261	100
74270044	300	451	293	459	150
74270045	133	211	131	203	100
74270051	96	205	80	152	100
74270052	89	170	73	128	50
74270053	195	258	139	225	100
74270054	83	143	76	112	50

74270055	133	225	138	208	100
74270056	132	208	137	204	100
74270057	202	338	207	312	150
74270059	50	79	50	79	50
74270060	120	192	117	162	50
74270061	85	120	75	98	50
74270062	256	311	225	307	150
74270063	50	90	51	75	50
74270077	154	278	149	245	100
74270081	120	220	109	200	100
74270090	155	250	163	242	100
74270091	71	170	53	93	50
74270093	90	150	104	160	100
74270094	70	110	73	107	50
74270095	115	153	105	151	100
74270096	116	192	125	188	100
74270162	59	94	60	85	50
742700381	150	200	142	178	50
742700391	30	45	27	47	50
742700392	45	80	46	73	50
742700611	24	36	22	36	50
742700612	45	59	44	58	50
742700752	75	125	72	113	50
742700781	120	220	112	186	100
742700790	155	250	127	218	100

3. The visualization of chart for the **“Typical Impedance Characteristics”** changes. The used type of cable and cable length is shown in each chart.

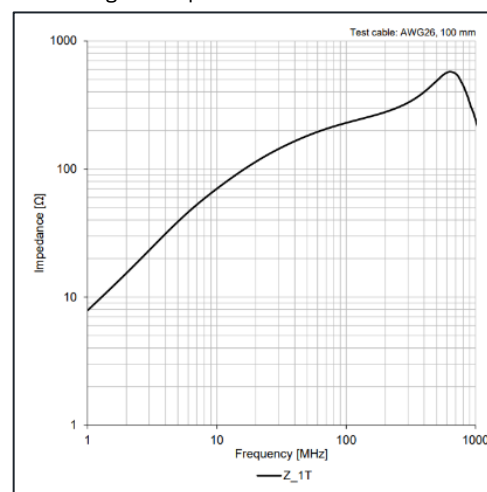
**BEFORE CHANGE:**

- Showing only one graph with 1 turn (1T) and 2 turns (2T) impedance curves.



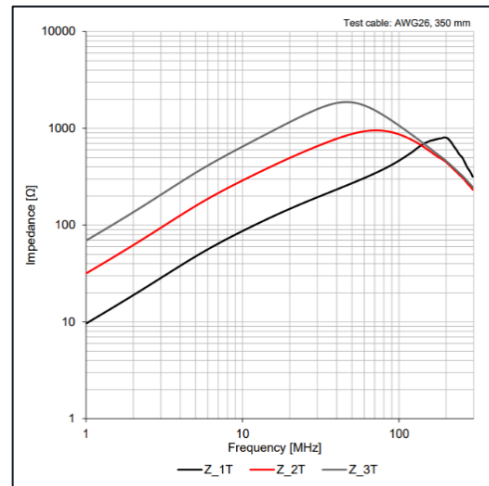
**AFTER CHANGE:**

- Showing a graph for the 1 turn (Z\_1T) impedance curve with the shortest possible cable length according to the product.



Showing no graph with 3 turns impedance curve.

Showing a graph for 1-3 turns ( $Z_{1T}$ ,  $Z_{2T}$ ,  $Z_{3T}$ ) impedance curves with the shortest possible cable length, which is required for 3 turns according to the product.



**Reliability / Qualification of Change:**

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