



<b>Product / Process Change Notification (PCN)</b>																			
<input checked="" type="checkbox"/> Major change <input type="checkbox"/> Minor change																			
<b>PCN #:</b> PCN_IndPMCI_20230907  <b>Affected Series:</b> WE-PMCI; 744792xxxxx  <b>PCN Date:</b> June 07, 2023  <b>Effective Date:</b> September 07, 2023	<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>Data Sheet 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 and purpose of change:</b> <p>In order to enhance the product reliability, Würth Elektronik will add the AEC-Q200 Grade 1 qualification to the WE-PMCI series. In line with internal standardisation, Würth Elektronik will update the Rated Current information on the datasheets.</p> <p>Because of a database mismatch, Würth Elektronik will update the Self Resonant Frequency information of 74479276147C.</p> <p>This is a datasheet correction only. There will be no change in form, fit, function or quality of the product.</p>																			
<b>Detail of Change:</b> <b>Certification:</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 50%;">Before Change</th> <th style="width: 50%;">After Change</th> </tr> </thead> <tbody> <tr> <td>RoHS Approval</td> <td>Compliant [2011/65/EU&amp;2015/863]</td> </tr> <tr> <td>REACH Approval</td> <td>Conform or declared [(EC)1907/2006]</td> </tr> <tr> <td>Halogen Free</td> <td>Conform [IEC 61249-2-21]</td> </tr> <tr> <td>RoHS Approval</td> <td>Compliant [2011/65/EU&amp;2015/863]</td> </tr> <tr> <td>REACH Approval</td> <td>Conform or declared [(EC)1907/2006]</td> </tr> <tr> <td>Halogen Free</td> <td>Conform [JEDEC JS709B]</td> </tr> <tr> <td>Halogen Free</td> <td>Conform [IEC 61249-2-21]</td> </tr> <tr> <td>Component Qualification</td> <td>AEC-Q200 Grade 1</td> </tr> </tbody> </table>		Before Change	After Change	RoHS Approval	Compliant [2011/65/EU&2015/863]	REACH Approval	Conform or declared [(EC)1907/2006]	Halogen Free	Conform [IEC 61249-2-21]	RoHS Approval	Compliant [2011/65/EU&2015/863]	REACH Approval	Conform or declared [(EC)1907/2006]	Halogen Free	Conform [JEDEC JS709B]	Halogen Free	Conform [IEC 61249-2-21]	Component Qualification	AEC-Q200 Grade 1
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**Rated Current Information:**

Before Change						After Change					
<b>Electrical Properties:</b>						<b>Electrical Properties:</b>					
Properties		Test conditions	Value	Unit	Tol.	Properties		Test conditions	Value	Unit	Tol.
Inductance	L	1 MHz/ 5 mA	0.68	µH	±20%	Inductance	L	1 MHz/ 5 mA	0.68	µH	±20%
Rated Current	$I_R$	$\Delta T = 40\text{ K}$	5.1	A	max.	Rated Current <sup>1)</sup>	$I_R$	$\Delta T = 40\text{ K}$	5.1	A	max.
IR PCB Copper Width			40	mm		Saturation Current 1	$I_{SAT 1}$	$  \Delta L / L   < 10\%$	1.8	A	typ.
IR PCB Copper Thickness			105	µm		Saturation Current 2	$I_{SAT 2}$	$  \Delta L / L   < 30\%$	4	A	typ.
Saturation Current 1	$I_{SAT 1}$	$  \Delta L / L   < 10\%$	1.8	A	typ.	DC Resistance	$R_{DC}$	@ 20 °C	45	mΩ	typ.
Saturation Current 2	$I_{SAT 2}$	$  \Delta L / L   < 30\%$	4	A	typ.	DC Resistance	$R_{DC}$	@ 20 °C	49	mΩ	max.
DC Resistance	$R_{DC}$	@ 20 °C	45	mΩ	typ.	Self Resonant Frequency	$f_{res}$		130	MHz	typ.
DC Resistance	$R_{DC}$	@ 20 °C	49	mΩ	max.	<sup>1)</sup> refer to IEC 62024-2-2020					
Self Resonant Frequency	$f_{res}$		130	MHz	typ.						
Rated Current Test Standard	IEC 62024-2, Class C										
Version	Standard										
<b>General Properties:</b>						<b>General Properties:</b>					
Ambient Temperature (referring to $I_R$ )		-40 up to +85 °C				Ambient Temperature (referring to $I_R$ )		-40 up to +85 °C			
Operating Temperature		-40 up to +125 °C				Operating Temperature		-40 up to +125 °C			
Storage Conditions (in original packaging)		< 40 °C ; < 75 % RH				Storage Conditions (in original packaging)		< 40 °C ; < 75 % RH			
Moisture Sensitivity Level (MSL)		1				Moisture Sensitivity Level (MSL)		1			
						Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently					
						Test conditions of Rated Current: refer to IEC 62024-2-2020, Class C (PCB Copper Width: 40 mm; PCB Copper Thickness: 105 µm)					

**74479276147C:**

Before Change	After Change
Self Resonant Frequency: 130 MHz	Self Resonant Frequency: 165 MHz

**Reliability / Qualification Summary:**

Product approval is according to the AEC-Q200 and is internally released by the Product Management Department.

**The following items are part of the internal release process:**

- High Temperature Exposure / MIL-STD-202G Method 108
- Temperature Cycling / JESD22 Method JA-104
- Biased Humidity / MIL-STD-202 Method 103
- Operational Life / MIL-PRF-27
- External Visual / MIL-STD-883 Method 2009
- Physical Dimension / JESD22 Method JB-100
- Resistance to Solvents / MIL-STD-202G Method 215



- Mechanical Shock / MIL-STD-202G Method 213
- Vibration / MIL-STD-202G Method 204
- Resistance to Soldering Heat / MIL-STD-202G Method 210
- ESD / AEC-Q200-002
- Solderability / IPC-A-610
- Electrical Characterization / User Spec.
- Board Flex / AEC-Q200-005
- Terminal Strength / AEC-Q200-006
- Low Temperature Storage Life / JESD22-A119
- Washability / Internal standard