

Würth Elektronik eiSos GmbH & Co. KG

EMC & Inductive Solutions

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Product / Process Change Notification (PCN)

- Major change
 Minor change

PCN #: PCN_WCAP-PHGP_20191002
Affected Series: WCAP-PHGP; 875015119004 / 875015119005

PCN Date: September 02, 2019
Effective Date: October 02, 2019

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:

Because of a database mismatch, Würth Elektronik will update the Ripple Current value and the ESR value. There will be no change in form, fit, function, quality or reliability of the product.

DETAIL OF CHANGE:

For part 875015119004:

Old datasheet:

New datasheet:

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Capacitance	C	0.5 W / 120 Hz / +20 °C	150	µF	±20%
Rated Voltage	U_R		6.3	V (DC)	max.
Surge Voltage	U_S	1000 cycles @ 20 °C	7.8	V (DC)	max.
Leakage Current	I_{Leak}	2 min / +20 °C	94.5	µA	max.
Dissipation Factor	DF	0.5 W / 120 Hz / +20 °C	6	%	max.
Ripple Current	I_{RIPPLE}	100 kHz @ 45 °C	5100	mA	max.
ESR	R_{ESR}	100 kHz @ 20°C	15	mΩ	max.

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Capacitance	C	0.5 W / 120 Hz / +20 °C	150	µF	±20%
Rated Voltage	U_R		6.3	V (DC)	max.
Surge Voltage	U_S	1000 cycles @ 20 °C	7.8	V (DC)	max.
Leakage Current	I_{Leak}	2 min / +20 °C	94.5	µA	max.
Dissipation Factor	DF	0.5 W / 120 Hz / +20 °C	6	%	max.
Ripple Current	I_{RIPPLE}	100 kHz @ 45 °C	5600	mA	max.
ESR	R_{ESR}	100 kHz @ 20°C	12	mΩ	max.

The ripple current (I_{RIPPLE}) has been corrected from "5100 mA" to "5600 mA".

The equivalent series resistance (R_{ESR}) has been corrected from "15 mΩ" to "12 mΩ".

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For part 875015119005:

Old datasheet:

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Capacitance	C	0.5 W/ 120 Hz/ +20 °C	180	µF	±20%
Rated Voltage	U_R		6.3	V (DC)	max.
Surge Voltage	U_S	1000 cycles @ 20 °C	7.8	V (DC)	max.
Leakage Current	I_{Leak}	2 min./ +20 °C	113.4	µA	max.
Dissipation Factor	DF	0.5 W/ 120 Hz/ +20 °C	6	%	max.
Ripple Current	I_{RIPPLE}	100 kHz @ 45 °C	5100	mA	max.
ESR	R_{ESR}	100 kHz @ 20°C	12	mΩ	max.

New datasheet:

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Capacitance	C	0.5 W/ 120 Hz/ +20 °C	180	µF	±20%
Rated Voltage	U_R		6.3	V (DC)	max.
Surge Voltage	U_S	1000 cycles @ 20 °C	7.8	V (DC)	max.
Leakage Current	I_{Leak}	2 min./ +20 °C	113.4	µA	max.
Dissipation Factor	DF	0.5 W/ 120 Hz/ +20 °C	6	%	max.
Ripple Current	I_{RIPPLE}	100 kHz @ 45 °C	5100	mA	max.
ESR	R_{ESR}	100 kHz @ 20°C	15	mΩ	max.

The equivalent series resistance (R_{ESR}) has been corrected from “12 mΩ” to “15 mΩ”.

RELIABILITY / QUALIFICATION SUMMARY:

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