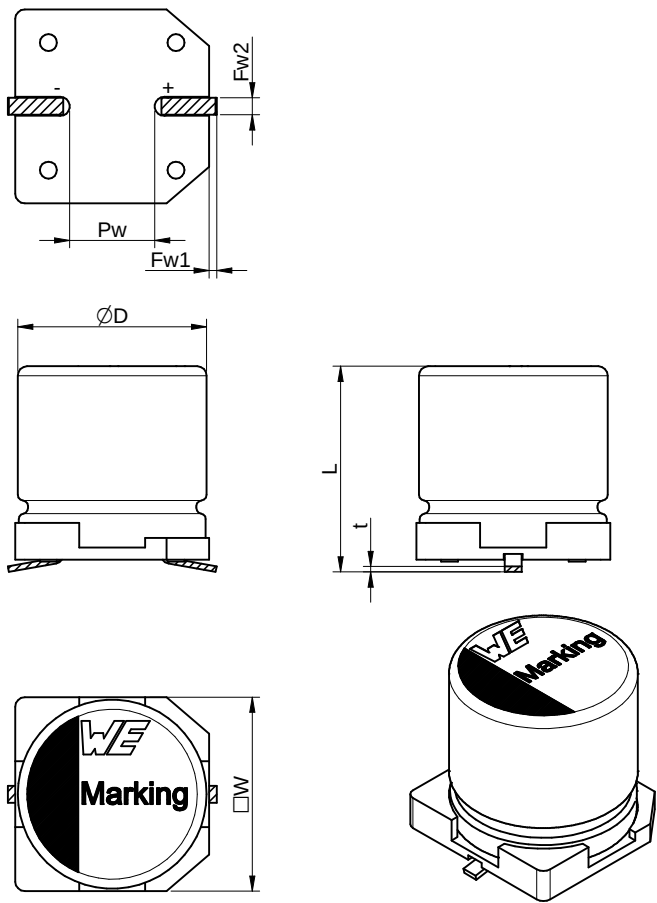


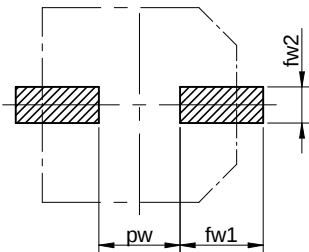
Dimensions: [mm]



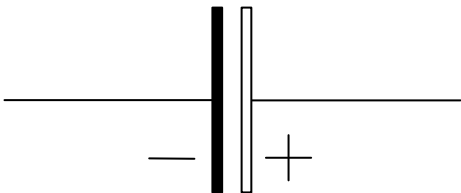
Properties		Value	Unit	Tol.
Diameter	Ø D	8	mm	±0.5
Length	L	8.7	mm	±0.3
Width	W	8.3	mm	±0.2
Material Thickness	t	0.3	mm	max.

P _w	3.1 ±0.2	mm	Fw1	0.35 +0/-0.05	mm	Fw2	0.95 ±0.15	mm
p _w	2.8	mm	fw1	4.2	mm	fw2	1.9	mm

Recommended Land Pattern: [mm]



Schematic:



Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Capacitance	0.25 V/ 120 Hz/ +20 °C	C	10	µF	±20%
Rated Voltage		U _R	63	V (DC)	max.
Leakage Current	2 min./ +20 °C	I _{LEAK}	126	µA	max.
Dissipation Factor	0.25 V/ 120 Hz/ +20 °C	DF	12	%	max.
Ripple Current	100 kHz @ 105 °C	I _{RIPPLE}	1500	mA	max.
ESR	100 kHz @ 20 °C	R _{ESR}	45	mΩ	max.

General Information:

Aluminum Polymer Capacitors	
Storage Conditions	5-35 °C, < 75% RH
Operating Temperature	-55 °C up to +105 °C
Endurance	2000 h @ / 63 V (DC) / max. Iripple
Test conditions of Electrical Properties: +20°C, 35% RH if not specified differently	
FIT according to separate documentation	
Component conform to REACH and RoHS requirements and standards	

Würth Elektronik eiSos GmbH & Co. KG
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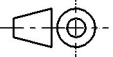
CREATED KaS	CHECKED PSL	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION WCAP-PSHP Aluminum Polymer Capacitors		TECHNICAL REFERENCE PSEE087100M063DVCTEB000	
		ORDER CODE 875115852001	
SIZE 8.0 x 8.7	REVISION 001.000	STATUS Valid	DATE (YYYY-MM-DD) 2017-03-01
		BUSINESS UNIT eiCap	PAGE 1/7

Component Marking:

1 st Line	Capacitance value: 10 µF
2 nd Line	Rated Voltage: 63
3 rd Line	PSHP & datecode: YWW

Multiplier for Ripple Current vs. Frequency

Frequency	120 Hz ≤ freq. < 1 kHz	1 kHz ≤ freq. < 10 kHz	10 kHz ≤ freq. < 100 kHz	100 kHz ≤ freq. < 300 kHz
Muliplier	0.05	0.3	0.7	1.0

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This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

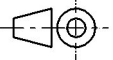
Profile Feature		Value
Preheat Temperature Min	$T_{s\ min}$	150 °C
Preheat Temperature Max	$T_{s\ max}$	200 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_p)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_p	see table
Time within 5°C of actual peak tempaure	t_p	20 - 30 seconds
Ramp-down Rate (T_L to T_p)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature:

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

WÜRTH Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CREATED KaS	CHECKED PSL	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 	
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		SIZE 8.0 x 8.7	REVISION 001.000	STATUS Valid	DATE (YYYY-MM-DD) 2017-03-01	BUSINESS UNIT eiCap
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This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc... Würth Elektronik eiSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

Cautions and Warnings:

The following conditions apply to all goods within the product series of **WCAP-PSHP of Würth Elektronik eiSos GmbH & Co. KG:**

1.1 Polarity

An Aluminum Polymer Capacitor has a polarity. In operation this polarity needs to be considered and adhered.

Reverse voltage can damage or destroy an Aluminum Polymer Capacitor. This can finally lead to a malfunction.

If the polarity in a circuit will be switched or possibly can be reversed, the usage of a non-polar capacitor shall be applied.

The polarity of an Aluminum Polymer Capacitor is for SMT V-Chip types marked like following.

On the top of the component the negative terminal is marked with a colored semicircle or bar.

1.2 Overvoltage

Avoid any overvoltage and do not apply a continuous overvoltage. If an overvoltage is applied to the capacitor, the leakage current can increase drastically. The applied working voltage is not allowed to exceed the rated working voltage of the specific capacitor.

1.3 Operating Temperature

The capacitor shall not be operated above the operating temperature, which is stated within this datasheet of the specific capacitor. The achievable lifetime of the capacitor is correlating to the applied temperature. In order to achieve the maximum lifetime, the capacitor should be operated by the lowest possible temperature conditions within the application.

1.4 Ripple Current

The applied ripple current shall not exceed the specified maximum ripple current of the capacitor.

If a higher ripple current is applied as permitted, it can cause excessive heat generation and higher temperature inside the capacitor. This happens due to pole change effects, if ripple current is applied to the capacitor. This can result in damage or lifetime shortage of the capacitor and may cause deterioration.

Electrolytic capacitors are regularly not designed for usage in AC applications and ripple current is applied / based due to parasitic effects on DC signal.

Please see electrical specification within this datasheet for maximum allowed ripple current.

1.5 Charge and Discharge

Frequent and quick charge / discharge cycles may generate heat inside the capacitor. In worst case this can cause a decrease of capacitance, an increase of leakage current or breakdown.

Applications with rapid charge and discharge cycles should be avoided. For assistance with your application please consult our technical support.

1.6 Storage Conditions

The storage conditions for a capacitor are recommended to be 5 °C up to 35 °C and less than 75 % rel. humidity.

Do not expose the capacitor to environments with hazardous gas, ozone, ultraviolet rays or any kind of radiation. Avoid any contact of the capacitor with direct sunshine, saltwater, spray of water or types of oil during storage..

If a capacitor is stored for a long time without applying voltage or storage conditions of 35 °C or above and more than 75 % relative humidity, the leakage current may increase.

The leakage current will return to normal level when applying the rated voltage to the capacitor before use. If the capacitor was stored for more than 6 months, it is recommended to apply DC working voltage to the capacitor for 30 minutes through a 1 kΩ protective series resistor.

All products shall be used before the end of the period of 12 months based on the product date code, if not a 100 % solderability cannot be guaranteed. The capacitance tolerance as specified within the datasheet is only valid on the date of delivery.

1.7 Reflow Soldering

The detailed soldering instruction is given at H Soldering Specification in this datasheet.

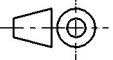
1.8 Hand Soldering

Take care that the tip of solder iron will only contact pins or leadframe of the capacitor to avoid any possible damage of the capacitor.

1.9 Cleaning

Do not wash the assembled capacitors with the following cleaning agents:

- petroleum system solvents: may cause degeneration of the rubber seal material

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In case of contact with the electrolyte on skin, wash the skin immediately with soap and water. If the eyes will get in contact with the releasing gas, immediately wash the eyes with water. Whether the gas was inhaled, directly use gargle.

1.14.1 Additional Requirements for Aluminum Polymer Capacitors

Circuits and Designs where the usage of Aluminum Polymer Capacitors is prohibited are:

- 1. High-impedance circuits
- 2. Coupling Circuits
- 3. Time Constant Circuits

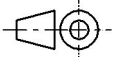
Due to thermal stress the leakage of Aluminum Polymer Capacitor can vary within the above stated applications.

If you want to use two or more Aluminum Polymer Capacitors in series connection for circuit designs, which are significantly affected by leakage current, please contact our technical staff before usage.

1.15 Disposal

Please contact your local responsible or organization for proper disposal of capacitor.

Also take care to be compliant in order to your local governmental law and restrictions. In case incineration, it should be done with more than 800 °C. Lower temperatures at incineration can result in toxic gases (e.g. chlorine). To avoid any explosion of capacitor, punch holes into the can or crush the capacitor before incineration.

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						875115852001			
SIZE	REVISION	STATUS		DATE (YYYY-MM-DD)	BUSINESS UNIT	PAGE			
8.0 x 8.7	001.000	Valid		2017-03-01	eiCap	6/7			

Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications. In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component. Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.

6. Product Life Cycle

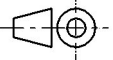
Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG. Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the “General Terms and Conditions of Würth Elektronik eiSos Group”, last version available at www.we-online.com.

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