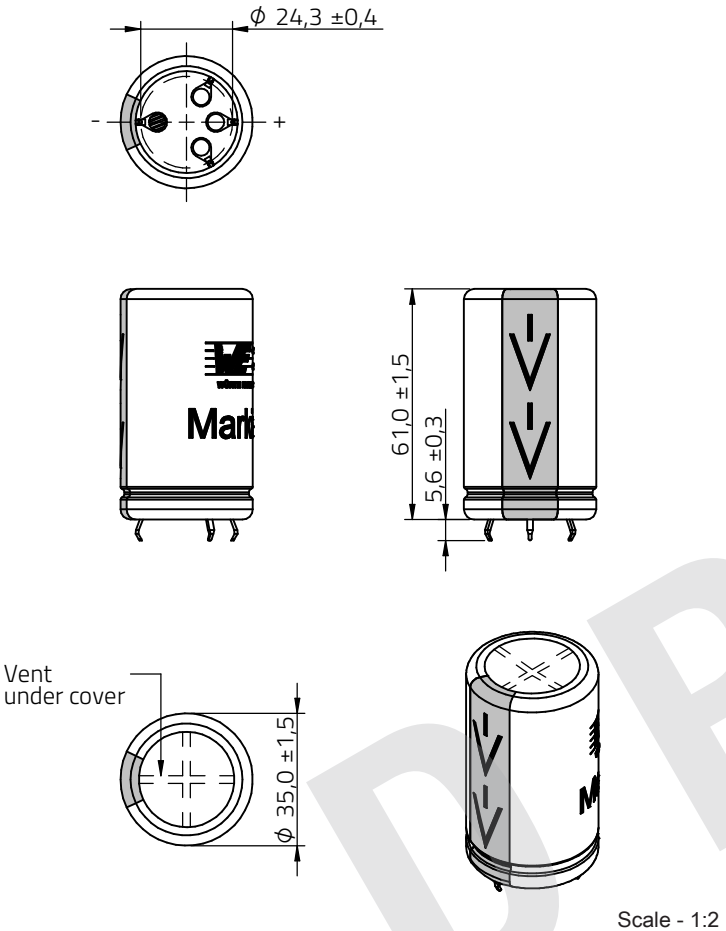
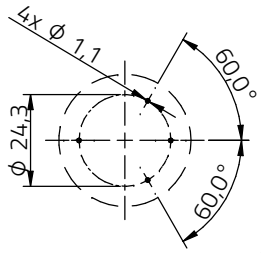
Dimensions: [mm]

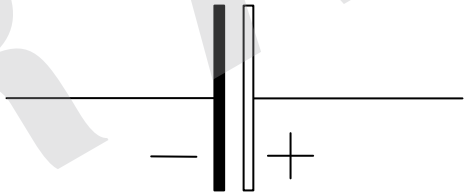


Scale - 1:2

Recommended Hole Pattern: [mm]



Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Capacitance	C	10 mA/ F	350	F	+30%/-10%
Rated Voltage	V_R	@ 65 °C	2.7	V (DC)	max.
Rated Voltage	V_R	@ 85 °C	2.3	V (DC)	max.
Surge Voltage	V_S	@ 65 °C	2.85	V (DC)	max.
ESR	$R_{ESR\ DC}$	10 ms	3.5	mΩ	max.
ESR	$R_{ESR\ AC}$	5 mV @ 1 kHz	3.2	mΩ	max.
Rated Discharge Current	I_{Rated}		75	A	typ.
Max. Discharge Current	I_{Max}		212	A	typ.
Leakage Current	I_{Leak}	72 hrs. @ VR	1.5	mA	typ.
Power Density	P		8.01	kW/ kg	typ.
Energy Density	E		5.4	Wh/ kg	typ.

General Information:

Storage Conditions (in original packaging)	15 °C up to + 35 °C; 10 % rH up to 75 % rH		
Operating Temperature	-40 °C up to +65 °C		
Moisture Sensitivity Level (MSL)	1		
Life Cycle		500000	Cycles
Weight	m	65	g
Test conditions of electrical properties: +20 °C, 35 % rH if not specified differently			
Component conform to REACh and RoHS requirements and standards			

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CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
ReKa	001.002	2025-06-12	DIN ISO 2768-1m	

DESCRIPTION
WCAP-SISC Supercapacitors (EDLC's)

TECHNICAL REFERENCE
SIP3560357Q2R7DSIBB5000

ORDER CODE
851617034001

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	1/11

Component Marking:

1st Horizontal Line	RU
2nd Horizontal Line	Supercapacitor
3rd Horizontal Line	EDLC Energy Capacity: 0.354 Wh
4th Horizontal Line	Rated Voltage: 2.7 V (DC) , Capacitance Value: 350 F , max. Temp. 65 °C
5th Horizontal Line	WCAP-SISC
1st Verticall Line	Marking -NEG

Lifetime Performance:

Test Condition	Shelf Life	Cycle Life	Endurance
Lifetime	up to 2 years	after 500000 cycles	1000 h, @65°C
Voltage	None	V_R applied	V_R applied
Current	None	I_R	I_R
Δ C	≤ 10% of initial value	≤ 30 % of initial measured value	≤ 30 % of initial measured value
Δ ESR	≤ 50% of specified value	≤ 2 x ESR	≤ 2 x ESR
Comments	25°C ± 10°C / 60% ±15% RH (dry and cool condition); discharged ≤ 0.2 V		

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
UL Approval	810A

Additional Information:

Properties	Description	Formula
Max. Discharge Current I_{max} – [A]	Current to discharge from V_R to $V_{R/2}$ within 1 sec.	$I_{max} = \frac{V_R/2}{1\,sec/C + R_s}$
Rated Discharge Current I_{Rated} – [A]	Current to discharge from V_R to $V_{R/2}$ within 5 sec.	$I_{Rated} = \frac{V_R/2}{5\,sec/C + R_s}$
Leakage Current I_{Leak} – [mA]	is measured at 25°C (after holding 72 h at V_R)	
Power Density P – [W/kg]	impedance matched with m (kg) as net weight for Capacitor	$P_{max} = \frac{V_R^2}{4 * R_s * m}$
Energy Density E – [Wh/kg]	with m(kg) as net weight for Capacitor	$E = \frac{C * V_R^2}{3600 * 2 * m}$
ESR R_{ESR} – [mΩ]	**$R_{ESR\ AC}$**: measured by contact resistance meter, conditions: Amplitude: 5 mV Frequency 1 kHz **$R_{ESR\ DC}$**: Measured by constant current discharge method (i.a.w. IEC62391), deltaV: Voltage drop during <20 ms **I_{CC}**: constant discharge current	$R_{DC} = \frac{\Delta V}{I_{cc}}$
Capacitance C – [F]	I_{CC} [A]: constant discharge current V_1 [V]: V_R x 0.8 V_2 [V]: V_R x 0.4 t_1 [sec]: time at V_1 t_2 [sec]: time at V_2	$C = \frac{dQ}{dV} = I_{cc} * \frac{t_2 - t_1}{V_1 - V_2}$

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ReKa	001.002	2025-06-12	DIN ISO 2768-1m	

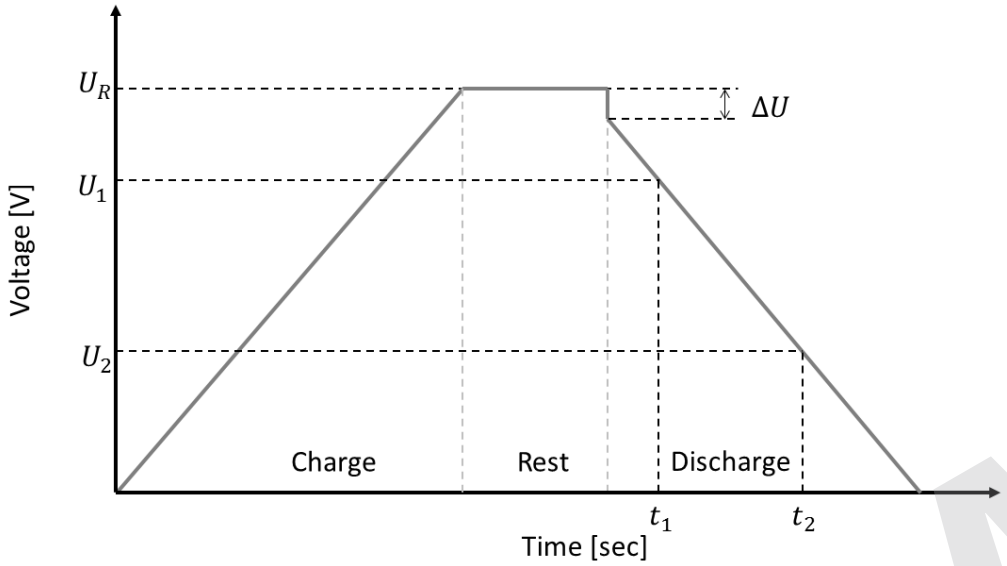
DESCRIPTION: **WCAP-SISC Supercapacitors (EDLC's)**

TECHNICAL REFERENCE: SIP3560357Q2R7DSIBB5000

ORDER CODE: **851617034001**

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	2/11

Charge & Discharge Characterictis:



$$U_1(t_1) = 0.8 \times U_R$$
$$U_2(t_2) = 0.4 \times U_R$$

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DESCRIPTION
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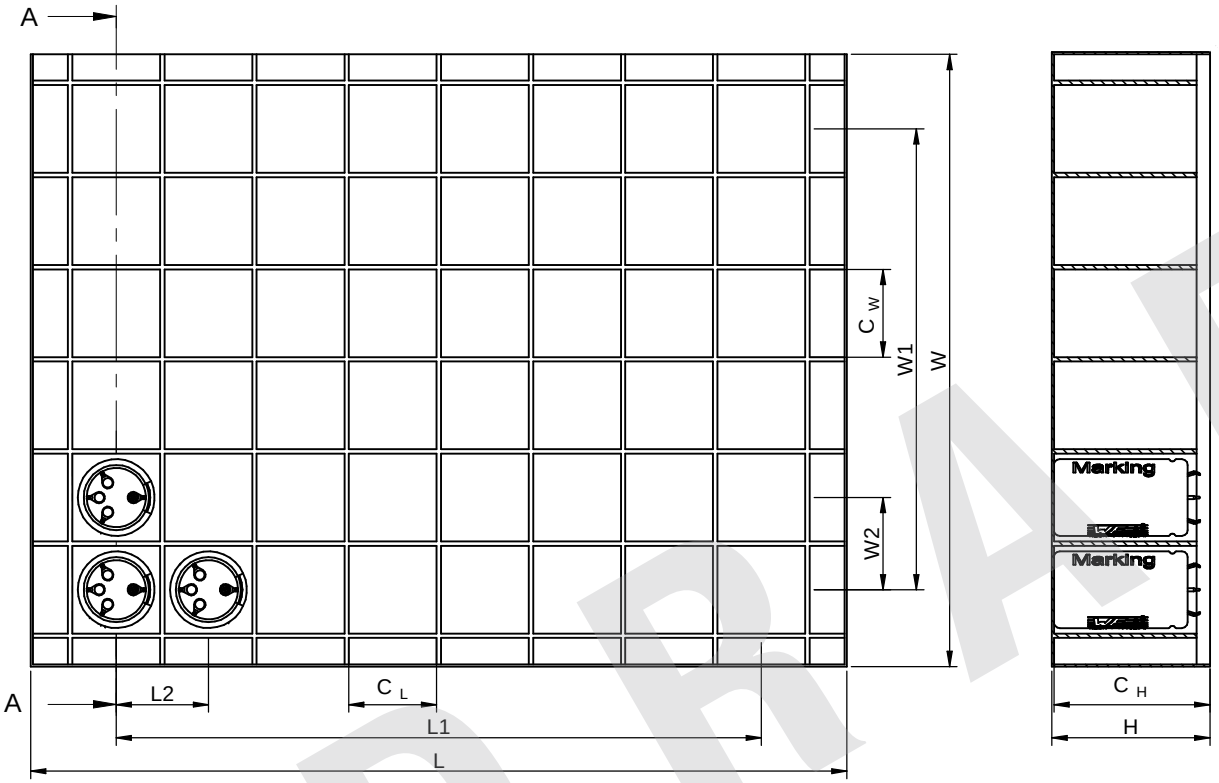
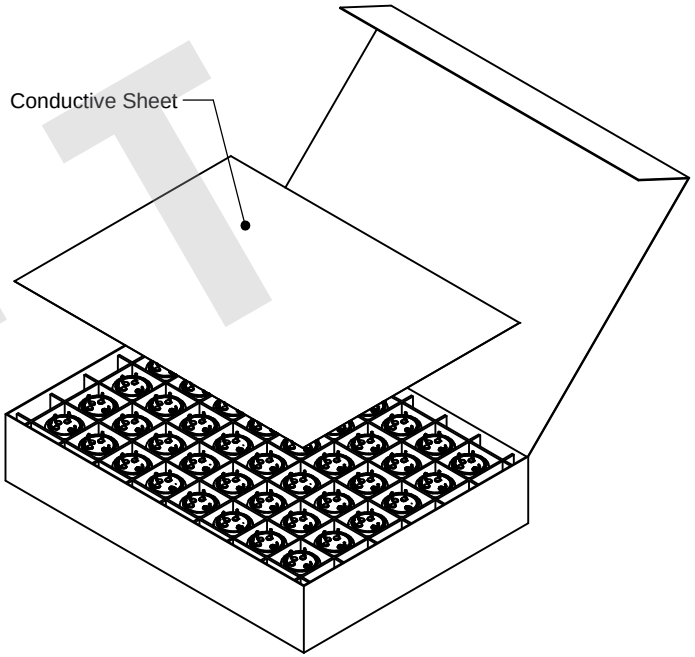
SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	3/11

Packaging Specification - Inner Carton: [mm]





	L (mm)	L1 (mm)	L2 (mm)	C_L (mm)	W (mm)	W1 (mm)	W2 (mm)	C_W (mm)	H (mm)	C_H (mm)	Qty. (pcs.)	Material
Tolerance	typ.	typ.	typ.	typ.	typ.	typ.	typ.	typ.	typ.	typ.		
Value	380,00	294,00	42,00	37,00	283,00	210,00	42,00	37,00	72,00	70,00	48	PET

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ORDER CODE
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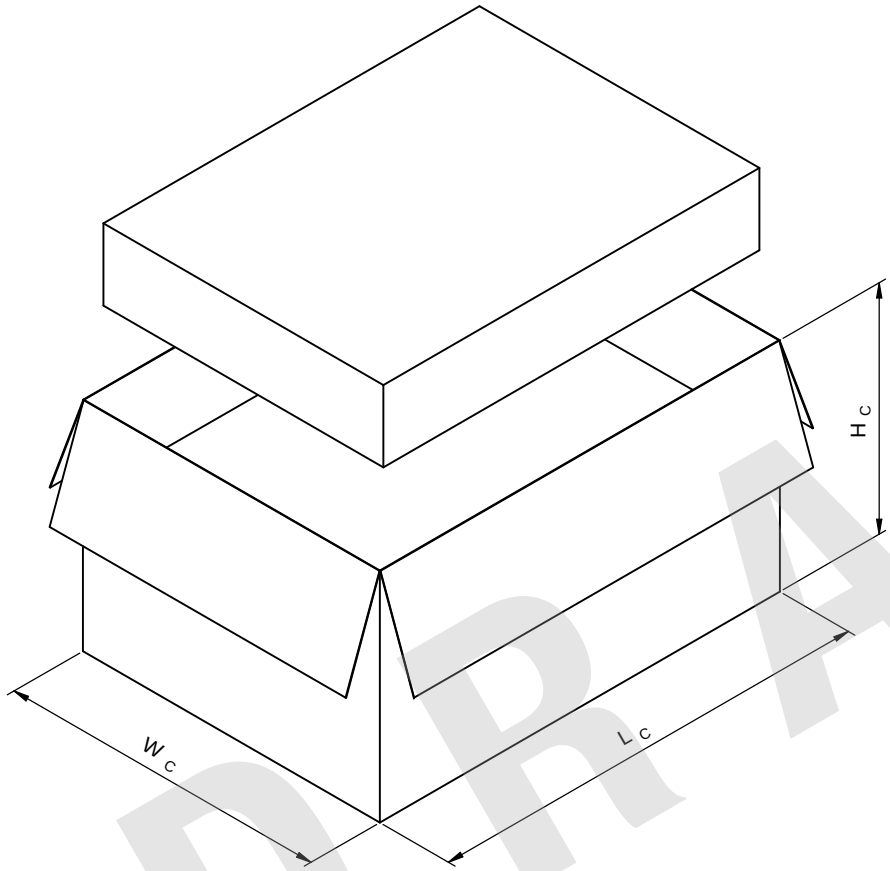
SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	4/11

Packaging Specification - Outer Carton: [mm]



	L_C (mm)	W_C (mm)	H_C (mm)	No. of Inner Carton (pcs.)	Qty. (pcs.)	Material
Tolerance	typ.	typ.	typ.			
Value	404	300	240	3	144	Paper

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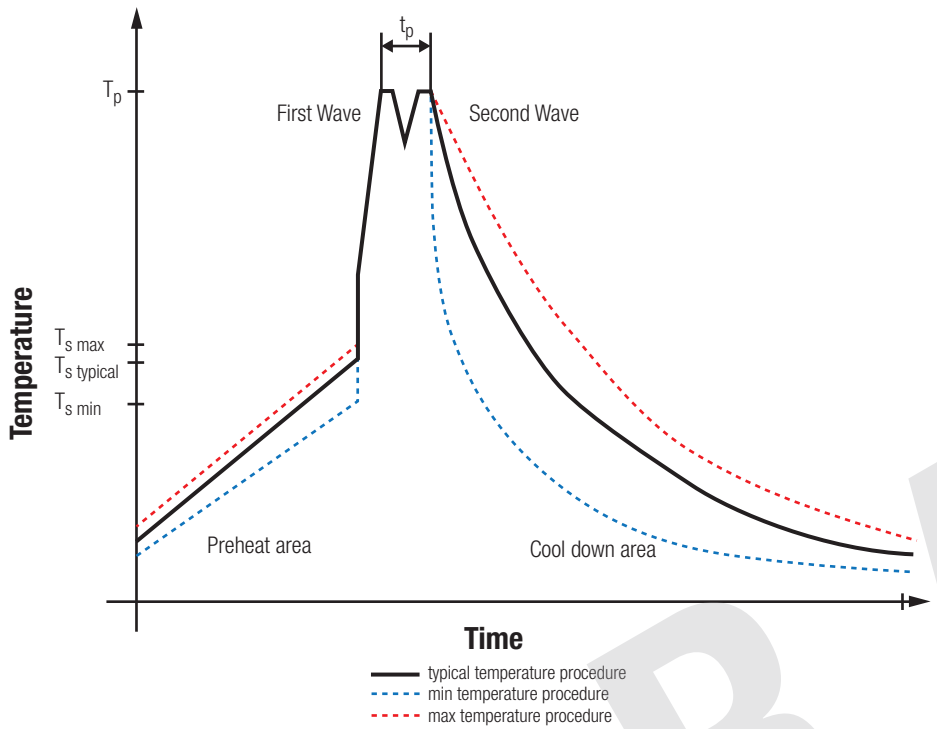
SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	5/11

Classification Wave Soldering Profile:



Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_{s\ min}$	100 °C	100 °C
Preheat Temperature Typical	$T_{s\ typical}$	120 °C	120 °C
Preheat Temperature Max	$T_{s\ max}$	130 °C	130 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	70 seconds	70 seconds
Ramp-up Rate Δ Temperature from $T_{s\ typical}$ to T_p	Δ T	150 °C max.	150 °C max.
Peak Temperature	T_p	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 seconds max. 5 seconds each wave	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second	~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second	~ 3.5 K/ second
Ramp-down Rate, Max		~ 5 K/ second	~ 5 K/ second
Time 25 °C to 25 °C		4 minutes	4 minutes

refer to EN61760-1:2006

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ORDER CODE: **851617034001**

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	6/11

Further information

Component Libraries:

- Download_3D_851617034001
- Altium_WCAP-SISC (22c)
- Cadence_WCAP-SISC (23a)
- Eagle_WCAP-SISC (22a)
- Download_IGS_851617034001
- PSpice_WCAP-SISC (22a)
- Download_STP_851617034001

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SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
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Cautions and Warnings:

The following conditions apply to all goods within the product series of Supercapacitors (EDLC's) of Würth Elektronik eiSos GmbH & Co. KG:

General:

- This electronic component is designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for a written approval (following the certain PPAP level procedure) before incorporating the components into any equipment in the field such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required and/or if there is the possibility of direct damage or human injury.
- Electronic components that will be used in safety-critical or high-reliability applications should be pre-evaluated by the customer.
- Direct mechanical impact to the product shall be prevented as material of the body, pins or termination could flake or in the worst case it could break.
- Avoid any water or heavy dust on capacitors surface, which may cause electrical leakage, damage, overheating or corrosion.
- Würth Elektronik does not warrant any customer qualified product characteristic, beyond Würth Elektronik specifications, for its validity and sustainability over time.
- The customer is responsible for the functionality of his or her own products. All technical specifications for standard products also apply to customer specific products.
- The component is designed and manufactured to be used within the datasheet specified values.
- Do not apply any kind of flexural or compressive force onto soldered or unsoldered component.
- The capacitance tolerance as specified within the datasheet is only valid on the date of delivery and according specified measurement criteria.

Product specific

Storage conditions

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components into direct sunlight.
- 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.

Packaging

- The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

Polarity

- The product has a polarity. In operation this polarity needs to be considered and adhered. Reverse voltage can damage or destroy the product.
- The polarity is marked with a stripe and the word NEG as well as a negative sign on the lateral surface of the capacitor.

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. This can shorten the lifetime.
- The applied working voltage is not allowed to exceed the rated working voltage of the specific capacitor.

Operating Temperature

- The capacitor shall not be operated outside 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.
- During charging and discharging in a short cycles, self-heating is generated by internal resistance. The operating temperature should not exceed the above stated operating temperature, including any self-heating.

Charge and Discharge

- Frequent and quick charge / discharge cycles may generate heat inside the capacitor.
- Do not exceed the above stated discharge current. Exceeding the maximal current, stated above, can cause a decrease of capacitance, an increase of leakage current or breakdown.
- For assistance with your application please consult our technical support.

Vent

- On this capacitor, a predetermined breaking point is given on the top of the component, which is the so-called vent. The vent is there to assure a possible pressure relief and to avoid that the capacitor can explode due to internal pressure, which can occur by applying reverse voltage or a too high ripple current.
- A space of at least 3 mm above the vent is recommended, in order to assure the full function of the vent. If less space is present, the vent may not operate correctly / completely.

Sleeve

- If excessive heat is applied to the sleeve (e.g. soldering process, etc.), the sleeve may crack or deform. If the capacitor will be exposed to xylene, toluene or likewise and will be afterwards heated, the sleeve may crack or deform.
- The sleeve does not assure any electrical insulation. It is to avoid using / placing the product on a spot where electrical insulation is needed. To assure electrical insulation, especially to the case of capacitor, further actions need to be taken.

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ReKa	001.002	2025-06-12	DIN ISO 2768-1m	

DESCRIPTION: **WCAP-SISC Supercapacitors (EDLC's)**

TECHNICAL REFERENCE: SIP3560357Q2R7DSIBB5000

ORDER CODE: **851617034001**

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	8/11

Soldering

- The solder profile must comply with the technical soldering specification. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.
- Strong forces which may affect the coplanarity of the component's electrical connection with the PCB (i.e. pins), can damage the part, resulting in avoid of the warranty.
- Customer needs to ensure that the applied solder paste, the paste thickness and solder conditions are enough to guarantee a sufficient solder result according to the relevant criteria of IPC-A-610.
- Do not use excessive nor insufficient flux.
- Provide enough washing when water-soluble flux is used.
- During wave soldering only the pins / terminals should have contact with hot solder bath / wave. Assure that no direct contact of capacitor body with hot solder bath / wave or any other component will happen. Soldering must be done from the opposite PCB side where capacitor body is placed.

Cleaning and washing

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

- Petroleum system solvents: may cause degeneration of the rubber seal material
- Alkali system solvents: may cause corrosion and dissolve of the casing
- Halogenated solvents: may cause corrosion and failure of the capacitor
- Acetone: component marking may be erased
- Aromatic solvents like xylene: may cause deterioration of the rubber seal material

Verify the following points when washing is applied to capacitors:

- Please monitor conductivity, ph-value, specific gravity and the water content of cleaning agents. Contamination adversely affects the characteristics.
- Be sure to not expose the capacitors under solvent rich conditions or keep capacitors inside a closed container. In addition, please dry the solvents on the PCB and the capacitor sufficiently with an air knife (temperature should be less than the maximum rated category temperature of the capacitor) for 10 minutes.
- Capacitors can be characteristically and catastrophically damaged by halogen ions, particularly by chlorine ions. The degree of the damage mainly depends upon the characteristics of the electrolyte and rubber seal material. When halogen ions come into contact with the inside of the capacitors, the foil may corrode, when a voltage is applied. This corrosion causes an extremely high leakage current, which results in venting and an open circuit defect.

All other cleaning processes and cleaning agents are not approved by Würth Elektronik. All cleaning methods need to be tested and validated by the customer.

Adhesives and Coating Materials

- The usage of any adhesive or coating material, which is containing halogenated solvents, is not allowed. In general, all adhesives as well as filling and coating materials need to be tested and validated by the customer.

Before applying adhesives or coating materials, make sure that the following points are fulfilled:

- Take care that the surface and capacitor is dry and clean before applying adhesive or coating, to avoid any contamination with flux residues or cleaning solvents.
- Assure that no flux residue or spot is left between the rubber seal material of the capacitor and the PCB.
- If the used adhesive, coating or molding material is containing halogen ions in a large amount, the halogen ions can diffuse and creep into the capacitor and can damage the capacitor. Both above explained circumstances can result in serious failures.
- Follow the specified heating and curing instructions given by supplier of the used adhesive or coating material. Avoid excessive pressure or heat on the capacitor by applying coating or adhesive.
- Take care that hardening of adhesive, coating material was correctly done, so that no solvents do remain.
- Be aware, that used solvents within adhesive and coating materials can damage the sleeve of the capacitor and can result in changes of the appearance of the sleeve (color, shine and marking).

Operation and usage of the capacitor

In operation and usage take care about the following points.

Do not use the capacitor within the following environmental conditions:

- Environment with high mechanical stress/ shocks or vibration (please see this specific datasheet for permitted limits).
- Environment with high amount of damp condensation, water or types of oil.
- Direct sunlight, ozone, any kind of radiation or ultraviolet rays.
- Toxic gases (e.g. ammonium, chlorine and compounds, bromine and compounds, hydrogen sulfide, sulfuric acid).

User should never touch the terminals of the capacitor directly.

Avoid short circuit between terminals with any kind of conductive material (e.g. metal, fluid, acid, alkaline solution).

Dangerous Goods and Handling

- Due to the European agreement concerning the international carriage of dangerous good by road (ADR) capacitors with an energy storage capacity of 0.3 Wh or more are considered as dangerous goods. Refer to special provision 361 for detailed information.
- Each capacitor should be protected against unintended short circuit or be fitted with a metal strap connecting the terminals, if transported.
- Capacitors installed in equipment shall be either in an uncharged state or protected against short circuit.
- A fully charged capacitor shall not be short circuited without a protective resistor.

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ORDER CODE: **851617034001**

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	9/11

Maintenance

For industrial applications it is recommended to perform periodic inspections. Power supplies shall be turned off before inspection to discharge the capacitor. Check the following points in case of an inspection:

- Visual inspection of the capacitor to see, if the vent operated for pressure relief and if any leakage of electrolyte has taken place.
- Measurement of electrical characteristics of the capacitor (according to datasheet, especially leakage current, capacitance and ESR).

In case of deviation or failure according to the specified characteristics, take care to start appropriate actions (e.g. replacement of capacitor)

Emergency case

- In case of excessive pressure within the capacitor the vent may operate and release this pressure. In case of vent operation gas becomes visible, when the component is in operation. If so, directly turn off the application and disconnect it from the power source. If the application will not be turned off, a possible short circuit of capacitor or a short circuit due to bridging of liquefied gas can possibly damage the circuit and in worst case the application may be dramatically damaged.
- Do not stay or position body or face above or in direction of the vent, because in the event of any vent operation, the releasing gas temperature may have over 100 °C.
- 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.

Disposal

- This capacitor shall be disposed of as industrial waste in accordance with local laws and regulations. Discharge capacitor before disposal. Never throw this device into fire. To avoid any explosion of capacitor, punch holes into the can or crush the capacitor before industrial waste incineration.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness. V2.0

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CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
ReKa	001.002	2025-06-12	DIN ISO 2768-1m	

DESCRIPTION
WCAP-SISC Supercapacitors (EDLC's)

TECHNICAL REFERENCE
SIP3560357Q2R7DSIBB5000

ORDER CODE
851617034001

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
35.0 x 60.0	eiCap	Valid from 2025-06-12 due to PCN	10/11

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.

RoHS COMPLIANT
REACh COMPLIANT

WÜRTH ELEKTRONIK
MORE THAN YOU EXPECT

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