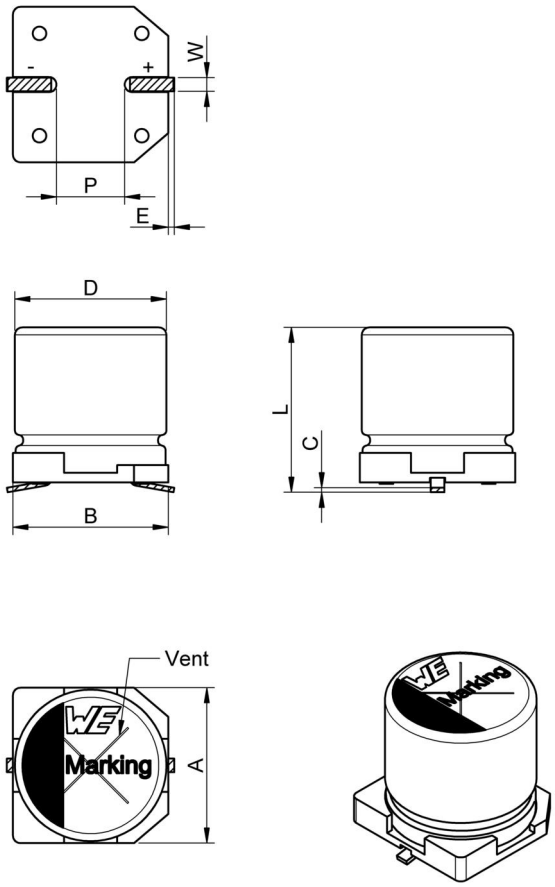
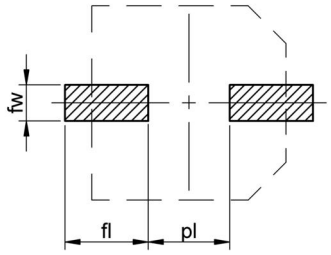
A Dimensions: [mm]

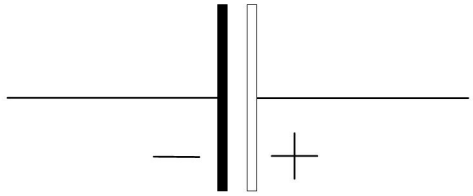


L max.	5.5		
D ±0.5	4.0		
A ±0.2	4.3		
B ±0.2	4.3		
C max.	0.15		
W ±0.1	0.65	a	1.0
E ±0.05	0.35	b	2.6
P ±0.2	1.0	c	1.6

B Recommended hole pattern: [mm]



C Schematic:



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D1 Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Capacitance	0.25V; 120Hz	C	10	µF	± 20%
Rated voltage		U_R	16	V (DC)	max.
Leakage current	after 2 min.	I_{Leak}	3	µA	max.
Dissipation factor	120 Hz	DF	22	%	typ.
Ripple current	120 Hz @105°C	I_{ripple}	17	mA	max.

E General information:

Aluminium Electrolytic Capacitors	
Storage Conditions:	35°C, <45% RH
Operating Temperature:	-40 °C bis +105 °C
Load Life:	5000 h @ +105°C / 16 V (DC)
Test conditions of Electrical Properties:	20°C, 33% RH; if not specified differently
FIT according to	separate documentation

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DESCRIPTION

WCAP-AS5H Aluminum Electrolytic Capacitors

Order.- No.

865230340001

COMPLIANT RoHS&REACh WÜRTH ELEKTRONIK

SIZE

A4

Size: 4.0 x 5.5

Component Marking:

Print	Description
1st Line	Capacitance value: 10 µF
2nd Line	Rated Voltage: 16
3rd Line	WCAP-AS5H & datecode: YWW

D2 Multiplier for Ripple Current vs. Frequency:

C [µF]/ Frequency [Hz]	60 (50)	120	500	1000	≥ 10000
0.1 ≤ C ≤ 100	0.80	1.00	1.20	1.30	1.50
100 < C ≤ 330	0.80	1.00	1.10	1.15	1.20

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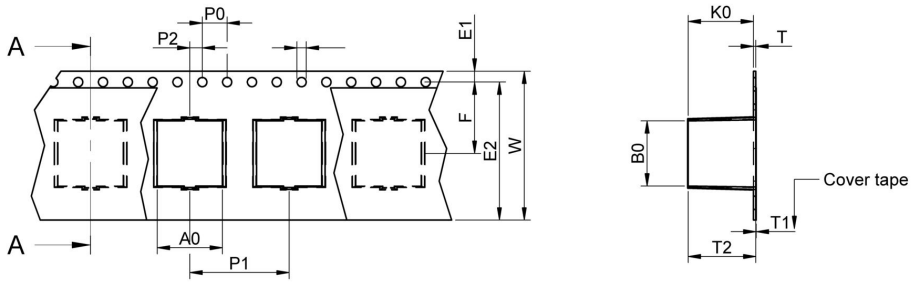
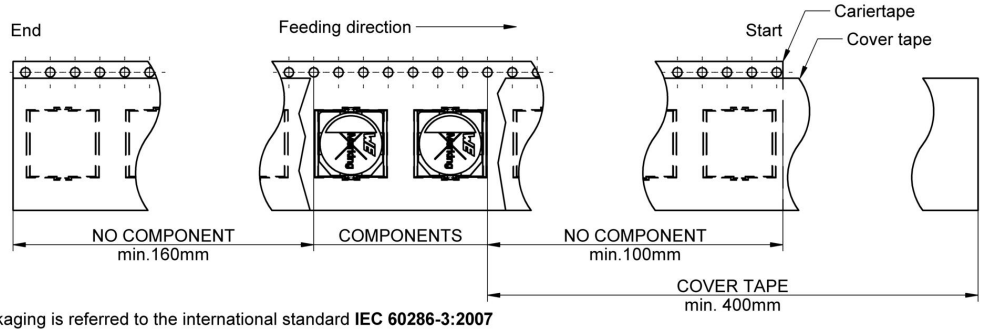
Size: 4.0 x 5.5

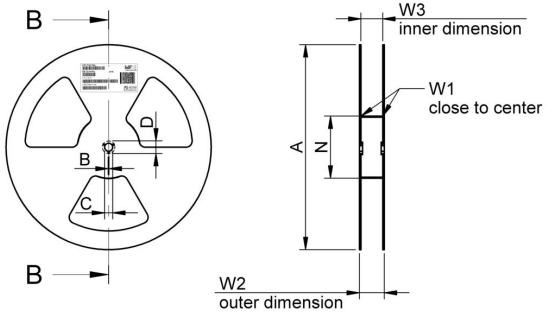
G1 Packaging Specification - Tape and Reel [mm]:



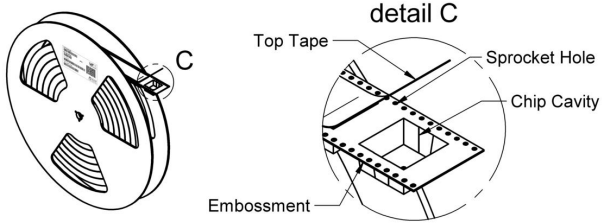
		A0	B0	W	P1	T	T1	T2	K0	D1	E1	E2	F	P0	P2	Tape	VPE / packaging unit
tolerance		typ.	typ.	±0,3	±0,1	max.	min.	ref.	typ.	min.	±0,1	min.	±0,05	±0,1	±0,05		
size	Ø 4 x 5,5	4,70	4,70	12,00	8,00	0,40	0,10	5,70	5,20	1,50	1,75	10,25	3,75	4,00	2,00	Polystyrene	2000
	Ø 5 x 5,5	5,70	5,70	12,00	12,00	0,40	0,10	5,70	5,20	1,50	1,75	10,25	3,75	4,00	2,00	Polystyrene	1000
	Ø 5 x 5,8	5,70	5,70	12,00	12,00	0,40	0,10	6,10	5,60	1,50	1,75	10,25	3,75	4,00	2,00	Polystyrene	1000
	Ø 6,3 x 5,5	7,00	7,00	16,00	12,00	0,40	0,10	5,70	5,20	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	1000
	Ø 6,3 x 5,8	7,00	7,00	16,00	12,00	0,40	0,10	6,20	5,70	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	1000
	Ø 6,3 x 7,7	7,00	7,00	16,00	12,00	0,40	0,10	8,10	7,60	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	900
	Ø 8 x 6,5	8,70	8,70	16,00	12,00	0,40	0,10	7,00	6,50	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	1000
	Ø 8 x 7,7	8,70	8,70	16,00	12,00	0,40	0,10	8,20	7,70	1,50	1,75	14,25	5,75	4,00	2,00	Polystyrene	700
	Ø 8 x 10,5	8,70	8,70	24,00	16,00	0,40	0,10	11,00	10,50	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	500
	Ø 8 x 11,7	8,70	8,70	24,00	16,00	0,40	0,10	13,00	12,50	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	400
	Ø 10 x 8,7	10,70	10,70	24,00	16,00	0,40	0,10	11,00	10,50	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	500
	Ø 10 x 10,5	10,70	10,70	24,00	16,00	0,40	0,10	11,00	10,50	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	500
	Ø 10 x 12,4	10,70	10,70	24,00	16,00	0,40	0,10	12,90	12,40	1,50	1,75	22,25	9,25	4,00	2,00	Polystyrene	400

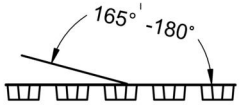


Packaging is referred to the international standard **IEC 60286-3:2007**



		A	B	C	D	N	W1	W2	W3	W3
tolerance		± 2,0	min.	± 0,8	min.	min.	+ 2	max.	min.	max.
Tape width	12 mm	330,00	1,50	13,00	20,20	60,00	12,40	18,40	11,90	15,40
	16 mm	330,00	1,50	13,00	20,20	60,00	16,40	22,40	15,90	19,40





		Pull-of force
Tape width	12 mm	0,1 N - 1,3 N
	16 mm	0,1 N - 1,3 N

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DESCRIPTION

WCAP-AS5H Aluminum Electrolytic Capacitors

Order.- No.

865230340001

COMPLIANT RoHS&REACh WÜRTH ELEKTRONIK

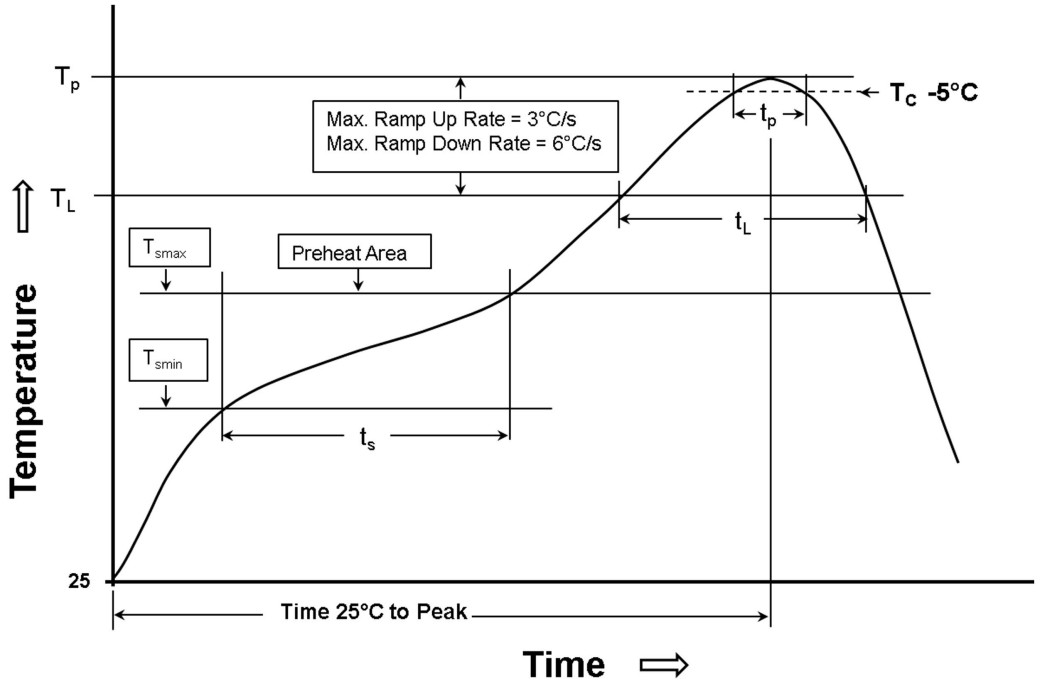
SIZE

A4

Size: 4.0 x 5.5

H Soldering Specifications:

H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat - Temperature Min (T_{smin}) - Temperature Max (T_{smax}) - Time (t_s) from (T_{smin} to T_{smax})	 150°C 200°C 60-120 seconds
Ramp-up rate (T_L to T_P)	3°C/ second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds
Peak package body temperature (T_p)	See Table H3
Time within 5°C of actual peak temperature (t_p)	20-30 seconds
Ramp-down rate (T_P to T_L)	6°C/ second max.
Time 25°C to peak temperature	8 minutes max.

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
PB-Free Assembly	< 1.6 mm	260°C	260°C	260°C
PB-Free Assembly	1.6 - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly	≥ 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020D

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SIZE

A4

Size: 4.0 x 5.5

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WCAP-AS5H of Würth Elektronik eiSos GmbH & Co. KG:

1.1 Polarity
An Aluminum Electrolytic Capacitor has a polarity. In operation this polarity needs to be considered and adhered.
Reverse voltage can damage or destroy an Aluminum Electrolytic 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 Electrolytic 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 Vent
On most Aluminum Electrolytic Types types, 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 3mm above the vent is recommended, in order to assure the full function of the vent. If less space is present the vent maybe cannot operate correctly / completely.

1.7 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.

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

1.9 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

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Size: 4.0 x 5.5

J 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.

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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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