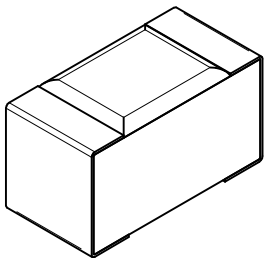
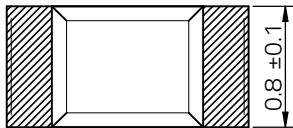
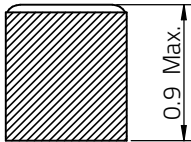
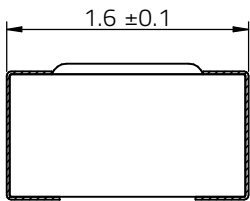
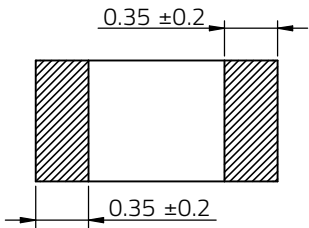
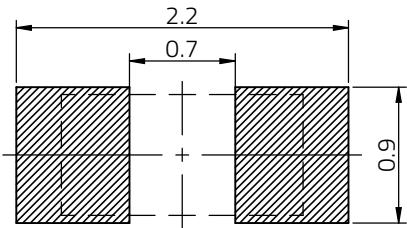


Dimensions: [mm]



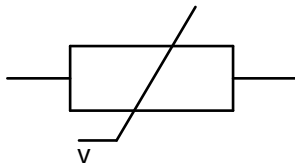
Scale - 20:1

Recommended Land Pattern: [mm]



Scale - 20:1

Schematic:



Absolute Maximum Ratings (Ambient Temperature 25°C):

Properties		Value	Unit
ESD Air Discharge Capability ¹⁾	V _{ESD Air}	15	kV
ESD Contact Discharge Capability ²⁾	V _{ESD Contact}	8	kV
Channels	1		

¹⁾ in positive and negative polarity
²⁾ in positive and negative polarity

Certification:

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]

General Information:

It is recommended that the temperature of the component does not exceed +85°C under worst case conditions	
Operating Temperature	-40 °C up to +85 °C
Storage Conditions (in original packaging)	up to 40 °C; < 75 % rH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % rH if not specified differently	
VCh Clamp ESD was measured by Transmission Line Pulsing (TLP) System. TLP conditions: ZO=50Ω, tp=100ns, tr=1ns	
Compliant: IEC 61000-4-2, -4 and -5	



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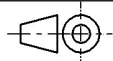
Würth Elektronik eiSos GmbH & Co. KG
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www.we-online.com
eiSos@we-online.com

CHECKED PeXu	REVISION 001.001	DATE (YYYY-MM-DD) 2025-08-26	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION WE-VE ESD Suppressor				ORDER CODE 8231626A
SIZE/TYPE 0603		BUSINESS UNIT eiSos	STATUS Valid	PAGE 1/7

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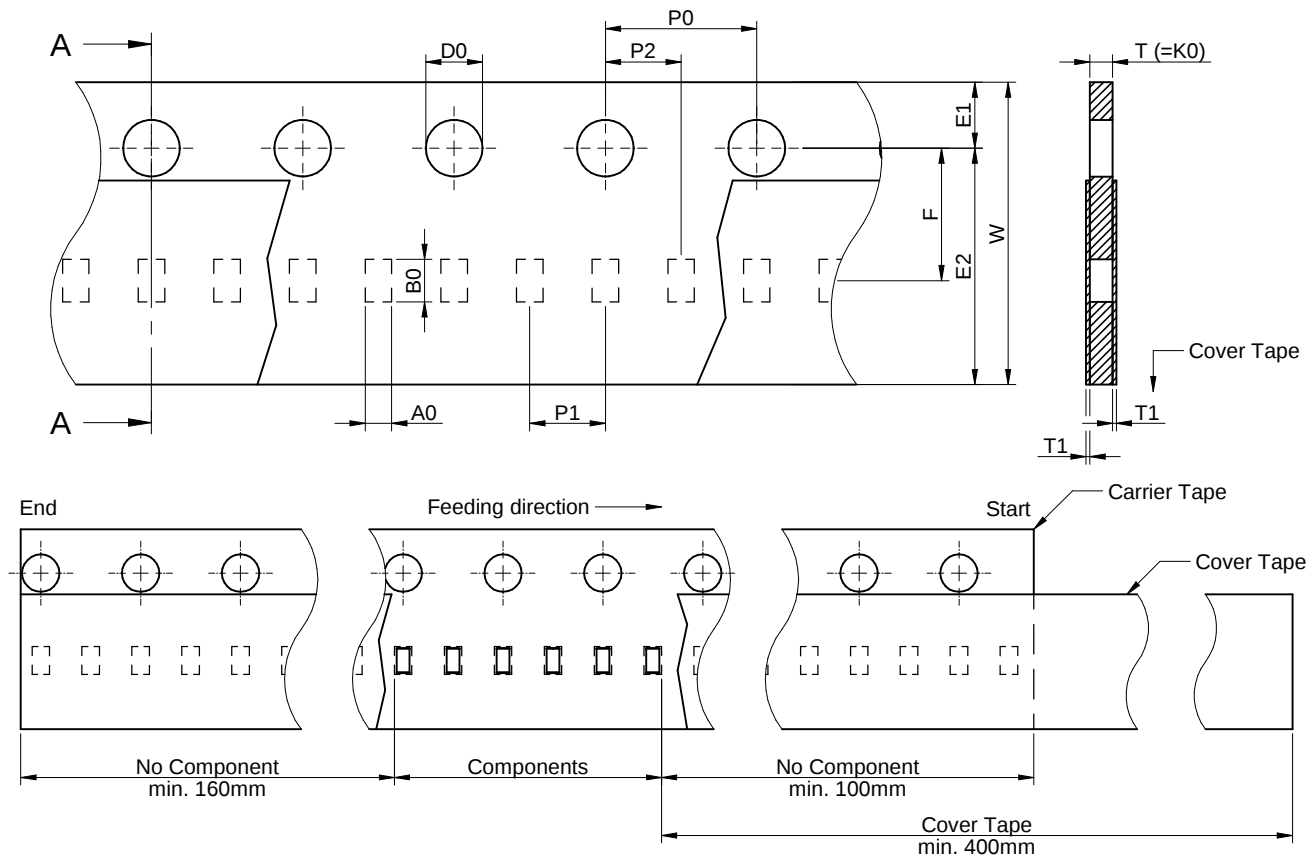
Electrical Properties:

Properties		Test conditions	Value			Unit	Tol.
			min.	typ.	max.		
Channel Operating Voltage	V _{Ch}	I/O to GND	-26		26	V	
(Channel) Input Capacitance	C _{Ch}	I/O to GND V _{I/O} =0V; V _{GND} =0V; f=1MHz		0.05	0.15	pF	typ.
Channel (Reverse) Leakage Current	I _{Ch Leak}	I/O to GND V _{I/O} =V _{Ch} ; V _{GND} = 0V			0.05	μA	
ESD Pulse Withstand	N _{ESD}	IEC 61000-4-2 +8kV (TLP=16A) Contact Mode, I/O to GND	1000.0				min.
Triggering Voltage ESD-Method	V _{Trig ESD}	TLP measurement	300			V	typ.
Channel ESD Clamping Voltage	V _{Ch Clamp ESD}	IEC 61000-4-2 +8kV (TLP=16A) Contact Mode, I/O to GND	50			V	typ.
Polarity	Bidirectional						

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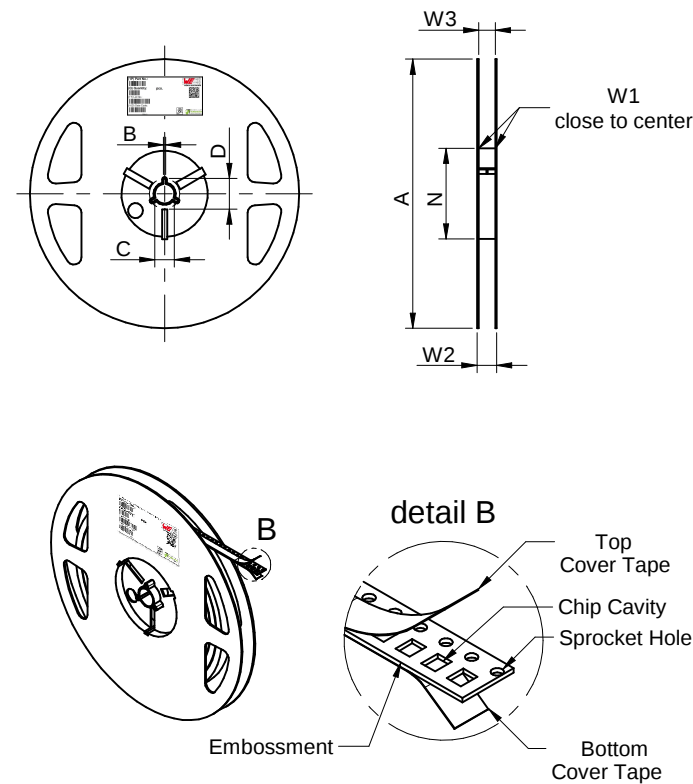
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Packaging Specification - Tape: [mm]

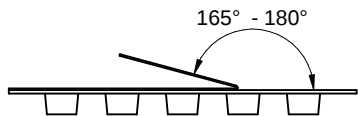


	Tape Type	A0 (mm)	B0 (mm)	W (mm)	T (mm)	T1 (mm)	P0 (mm)	P1 (mm)	P2 (mm)	D0 (mm)	E1 (mm)	E2 (mm)	F (mm)	Material	Qty. (pcs.)
Tolerance		typ.	typ.	±0.20	ref.	ref.	±0.05	typ.	±0.05	+0.10/-0.00	±0.10	typ.	±0.05		
Value	1a	1.05	1.88	8.00	0.60	0.10	4.00	4.00	2.00	1.50	1.75	6.25	3.50	Paper	4000

Packaging Specification - Reel: [mm]



	A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
Tolerance	±2.0	min.	min.	min.	min.	±1.6	max.	min.	max.	
Value	178	1.5	12	20.2	50	8.4	14.4	7.9	10.9	Polystyrene



	Tape width	8 mm	Pull-off force	0,1 N - 1,0 N
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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	$T_p \leq T_c$, see Table below
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-020E

Package Classification Reflow Temperature (T_c):

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

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Further information

Component Libraries:

Altium	Altium_WE-VE femtoF (22a)
Cadence17-2	Cadence_WE-VE femtoF (21a)
Cadstar	Cadstar__WE-VE femtoF (21a)
Eagle	Eagle_WE-VE femtoF (19a)
IGS	IGS_WE-VE-femtoF_0603
KiCad	KiCad_WE-VE-femtoF (25a)
PSpice	PSpice_WE-VE_femtoF (25a)
STP	STP_WE-VE-femtoF_0603

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Cautions and Warnings:

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

General:

All recommendations according to the general technical specifications of the data sheet have to be complied with. Further the varistor is not designed for voltage stabilization with continuous power dissipation.

The usage and operation of the product within ambient conditions, which probably alloy or harm the component surface, has to be avoided.

The exposure of steam, saline spray, atmosphere with reduced oxygen content, corrosive gases, rain or condensation and direct sunlight shall be prohibited.

If the product is potted in customer applications, the potting material might shrink and react chemically during and after hardening. The product is exposed to the pressure and material of the potting material with the effect that the ceramic body and termination is possibly damaged by this pressure or the chemically reaction and so the electrical as well as the mechanical characteristics and the life time are endangered to be affected. After the potting material is cured, the ceramic body and termination of the product have to be checked if any reduced electrical or mechanical functions or destructions have occurred.

The responsibility for the applicability of customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products do also apply to customer specific products.

Cleaning agents that are used to clean the customer application might damage or change the characteristics of the component, body, pins or termination and might reduce the life time.

Direct mechanical impact to the product shall be prevented as the ceramic material of the ceramic body could flake or in the worst case it could break.

Signals operated continuously with a high ratio of direct-current voltage might have an influence on the product life time.

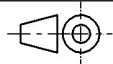
Product specific:

Follow all instructions mentioned in the data sheet, especially:

- The soldering profile has to be complied with according to the technical reflow soldering specification, otherwise this will void the warranty.
- Wave soldering is only allowed after evaluation and approval.

- 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 can't be ensured.
- Violation of the technical product specifications such as exceeding the nominal rated voltage will void the warranty.

The general and product specific cautions 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.

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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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