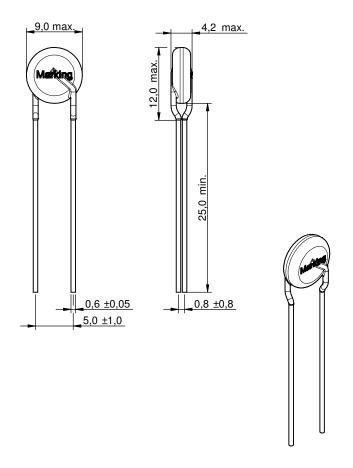
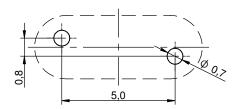
Dimensions: [mm]

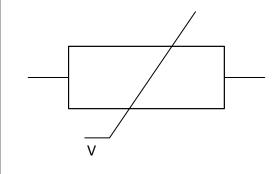


Scale - 2:1

Recommended Hole Pattern: [mm]



Scale - 6:1



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
AC Operating Voltage	V _{RMS}		130	V	max.
DC Operating Voltage	V _{DC}		170	V	max.
Clamping Voltage	V_{Clamp}	10 A @ 8/20 μs	340	V	max.
(Reverse) Peak Pulse Current	I _{Peak}	8/20 µs	1200	А	max.
Power Dissipation	P _{Diss}		0.25	W	max.
Energy Absorption	W _{max}	10/1000 μs	14.3	J	max.
Nominal Discharge Current	I _n		0.5	kA	max.
Measured Limiting Voltage	V _{ML}		460	V	max.
(Reverse) Breakdown Voltage	V_{BR}	1 mA	200	V	±10%
(Channel) Input Capacitance	C _{Ch}	1 kHz	210	pF	typ.

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]
VDE Approval	Yes [40016986]
cULus Approval	UL1449 [E332875]

General Properties:

It is recommended that the temperature of the component does not exceed +85°C under worst case conditions

l		case conditions
l	Operating Temperature	-40 up to +85 °C
	Storage Conditions (in original packaging)	< 40 °C; < 75 % RH
l	Moisture Sensitivity Level (MSL)	1
l	Tast conditions of Floatrical Dr	enerties: + 20 °C 22 V DH if not energified differently

Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently

Product Marking:

WE-S					
p/n without "820"					
cURus, VDE					
Date Code - WWY					





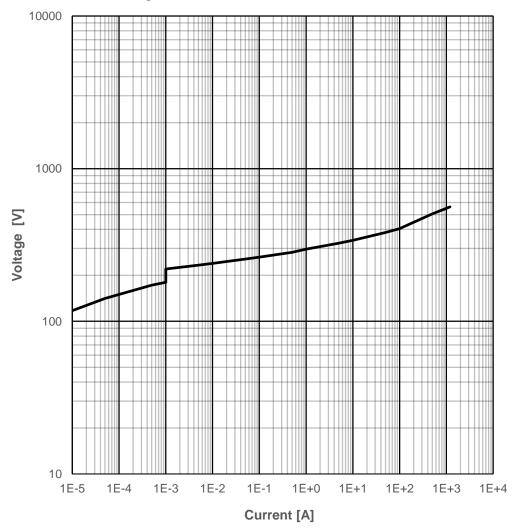
Schematic:

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Tel. +49 (0) 79 42 945 - 0

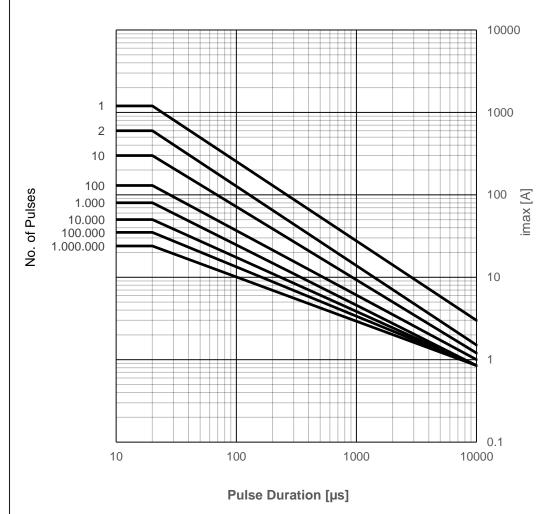
www.we-online.com eiSos@we-online.com

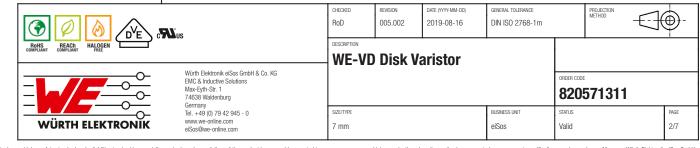
RoD	005.002	2019-08-16	DIN ISO 2768-1m		PROJECTION METHOD	()-
DESCRIPTION					7	Υ
WE-VD	Disk Va	aristor				
				ORDER CODE		
				820	571311	
SIZE/TYPE			BUSINESS UNIT	STATUS		PAGE
7 mm			eiSos	Valid		1/7

Rated Current vs. Voltage:

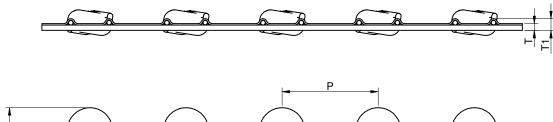


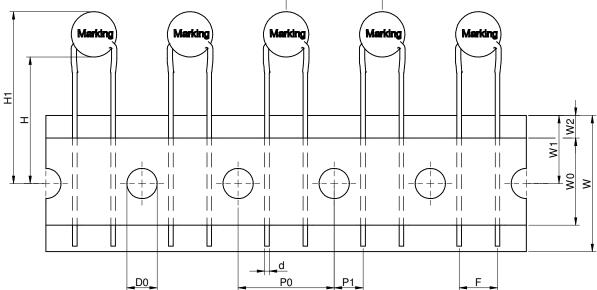
Pulse Lifetime Derating:





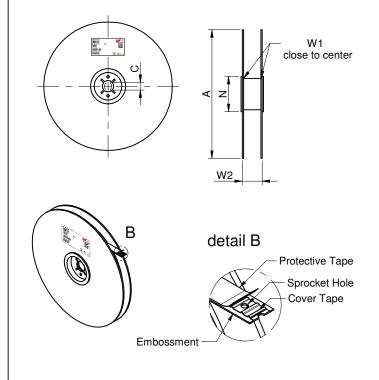
Packaging Specification - Tape and Reel: [mm]



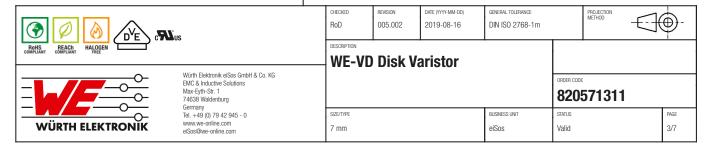


packaging is refered to the international standard IEC 60286-3:2013

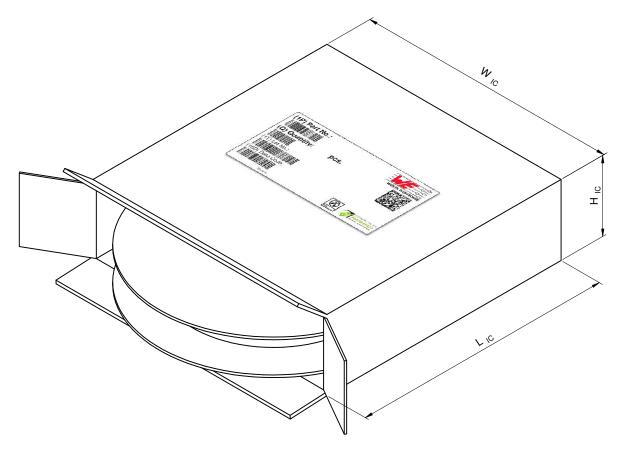
P	P0	P1	F	W	W0	W1	W2	Н	H1	D0	d	T	T1	Material	Packaging Unit
±1,0	±0,3	±0,7	+0,5/-0,2	+1,0/ -0,5	min.	+0,75/ -0,5	max.	±0,5	max.	±0,2	max.	max.	max.		pcs.
12.7	12.7	3,85	5	18	10	9	3	20	29	4	0.6	0.7	1.6	Paper	1500



Α	C	N	W1	W2	W3
typ.	min.	max.	± 2,0	max.	± 3,0
340,00	30,00	89,00	43,00	51,00	43,00

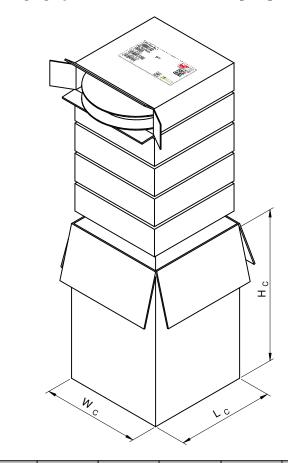


Packaging Specification - Reel in Carton: [mm]

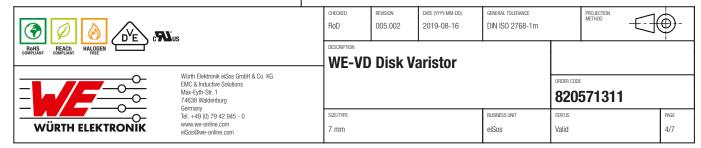


L _{IC} (mm)	W _{IC} (mm)	H _{IC} (mm)	Packaging Unit	Material
typ.	typ.	typ.	pcs.	
050.00	050.00	107.00	0000	Danasa

Packaging Specification - Outer Carton: [mm]



L _C (mm)	W _C (mm)			Packaging Unit	Material	
typ.	typ.	typ.	pcs.	pcs.		
370.00	370.00	575.00	5	15000	Paper	



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_{smin} to T_{smax}	t _s	70 seconds	70 seconds	
Ramp-up Rate	ΔΤ	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

ROBITARY CHRANT HALDEN		CHECKED ROD	REVISION 005.002	DATE (YYYY-MM-DD) 2019-08-16	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	—
		WE-VD Disk Varistor						
Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Gyth-Str. 1 74638 Waldenburg			DISK V	a 13to		ORDER CODE	571311	
WÜRTH ELEKTRONIK	Germany Tel. +49 (0) 79 42 945 - 0 www.we-orline.com elSos@we-online.com	size/type 7 mm			BUSINESS UNIT eiSos	status Valid		PAGE 5/7

Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-VD 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 written approval (following the PPAP procedure) before incorporating the components into any
 equipment in fields 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.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions
 specified in the datasheet are not met, the wire insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth
 Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and
 sustainability over time.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the
 authority of the customer. All technical specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- · All other soldering methods are at the customers' own risk.

Cleaning and Washing:

Washing agents used during the production to clean the customer application might damage or change the characteristics of the
coating insulation, marking or plating. Washing agents may have a negative effect on the long-term functionality of the product.

Potting:

If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking
could lead to an incomplete seal, allowing contaminants into the component body, pins or termination. Expansion could damage the
components. We recommend a manual inspection after potting to avoid these effects.

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 to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

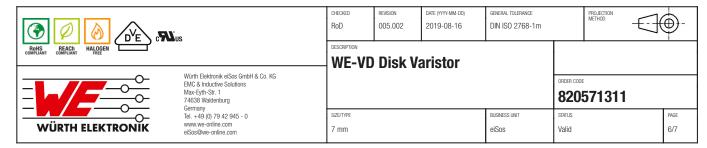
Packaging:

- 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.
- Please be aware that Products provided in bulk packaging may get bent and might lead to derivations from the mechanical
 manufacturing tolerances mentioned in chapter A, which is not considered to be a material defect.

Handling:

- Violation of the technical product specifications such as exceeding the nominal rated voltage will void the warranty.
- The varistor is not designed for voltage stabilization with continuous power dissipation.
- The exposure of steam, saline spray, atmosphere with reduced oxygen content, corrosive gases, rain or condensation and direct sunlight shall be prohibited.
- Signals operated continuously with a high ratio of direct-current voltage might have an influence on the product lifetime.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component. The operating temperature of the component shall not exceed the maximum temperature specified.

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.



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

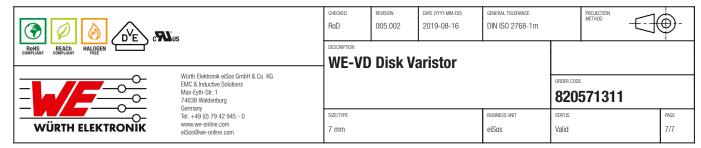
Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. 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 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.



Mouser Electronics

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