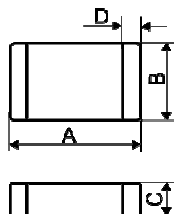


# Specification for release

Customer :  
 Ordercode: **8231606A**  
 Description : **ESD Suppressor WE-VE femtoF**



## A Dimensions:



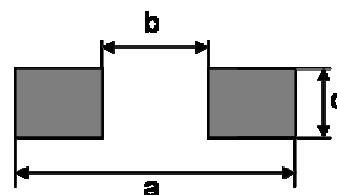
|   | Size 0603      |    |
|---|----------------|----|
| A | $1.6 \pm 0.2$  | mm |
| B | $0.8 \pm 0.2$  | mm |
| C | <b>0.9 max</b> | mm |
| D | $0.3 \pm 0.2$  | mm |
|   |                |    |
|   |                |    |

## B Electrical properties:

| Properties           | Test Conditions   |             | Value | Unit    | Tol. |
|----------------------|-------------------|-------------|-------|---------|------|
| DC operating voltage |                   | $V_{DC}$    | 6     | V       | max  |
| capacitance          | 1 MHz             | $C_{typ}$   | 0.05  | pF      | typ  |
| capacitance          | 1 MHz             | $C_{max}$   | 0.15  | pF      | max  |
| leakage current      | 6 VDC             | $I_{L max}$ | 0.05  | $\mu A$ | max  |
| trigger voltage      | TLP measurement   | $V_{Tr}$    | 250   | V       | typ  |
| clamping voltage     | 8kV Contact, 30ns | $V_{Cl}$    | 40    | V       | typ  |
| ESD withstand        | 8kV Contact       |             | 1000  |         | min  |

## C Soldering spec.:

**2.2 - 2.6** a [mm]  
**0.7** b [mm]  
**0.7** c [mm]



## D Test equipment:

**Keithley 2410** for leakage Current  
**Agilent 4396B Analyzer** for Capacitance

## E Test conditions:

Humidity: 33%  
 Temperature: +20°C

## F Material & approvals:

Base material: Ceramic

## G General specifications:

Storage temperature: -20°C ... +60°C  
 Max. operating temperature: -40°C ... +85°C

|                  |                  |      |              |            |
|------------------|------------------|------|--------------|------------|
| General Release: | Customer         |      |              |            |
|                  |                  |      |              |            |
|                  |                  |      |              |            |
| Date             | Signature        |      |              |            |
|                  | Würth Elektronik |      |              |            |
|                  |                  |      |              |            |
| Checked          | Approved         | JB   | Version 1    | 2010-12-14 |
|                  |                  | Name | Modification | Date       |

This electronic component has been designed and developed for usage in general electronic equipment. Before incorporating this component into any equipment where higher safety and reliability is especially required or if there is the possibility of direct damage or injury to human body, for example in the range of 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 must be informed 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.

**Würth Elektronik eiSos GmbH & Co. KG**

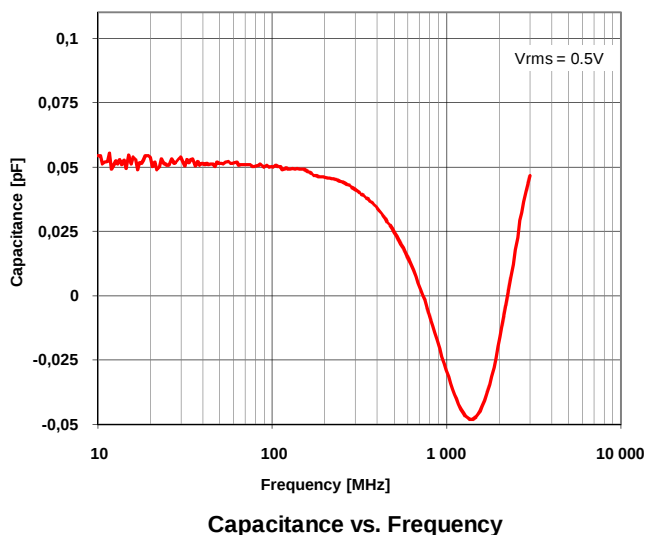
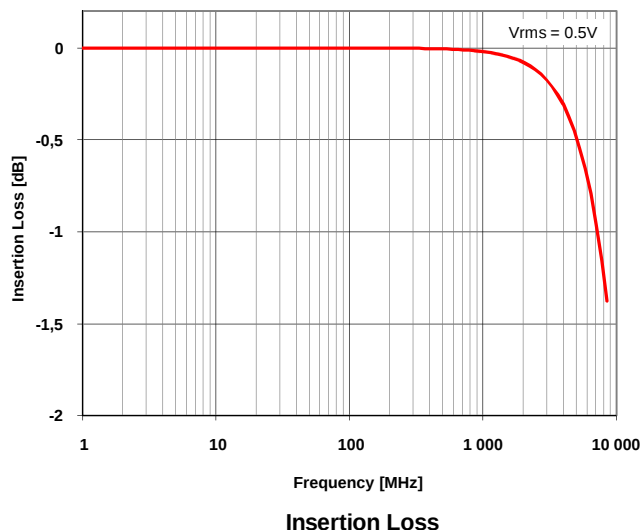
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<http://www.we-online.com>

# Specification for release

Customer :  
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## H Typical Characteristics:



|                  |                  |  |      |              |            |
|------------------|------------------|--|------|--------------|------------|
| General Release: | Customer         |  |      |              |            |
|                  |                  |  |      |              |            |
|                  |                  |  |      |              |            |
|                  |                  |  |      |              |            |
| Date             | Signature        |  |      |              |            |
|                  | Würth Elektronik |  |      |              |            |
|                  |                  |  |      |              |            |
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### Würth Elektronik eiSos GmbH & Co. KG

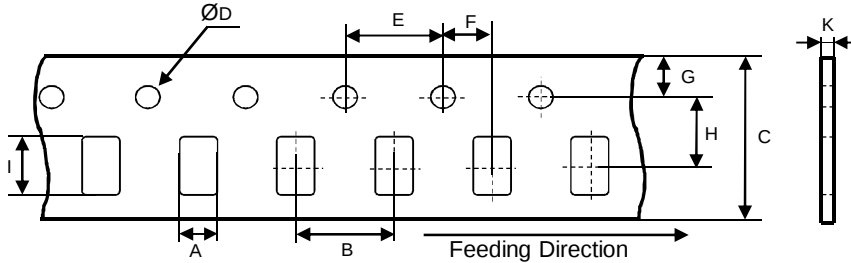
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# Specification for release

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 Description : **ESD Suppressor WE-VE femtoF**  
**8231606A**

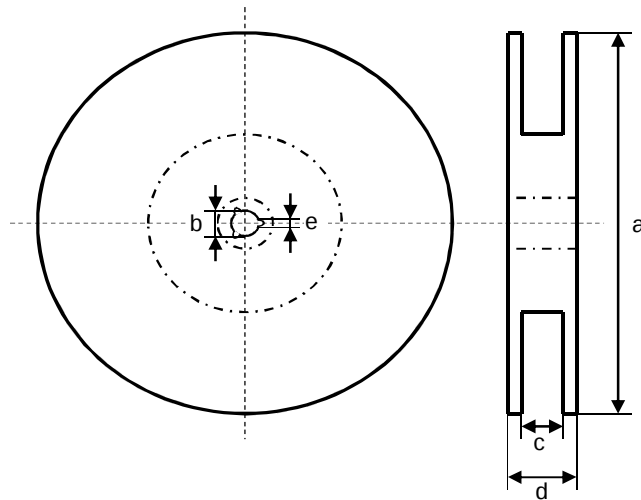


## I Tape:

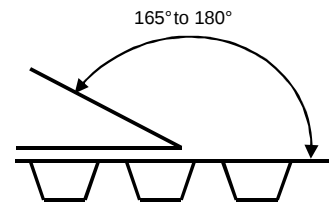


|   |               |    |
|---|---------------|----|
| A | 1.10 typ      | mm |
| B | 4.00 ± 0.10   | mm |
| C | 8.0 +0.3/-0.1 | mm |
| D | 1.50 + 0.20   | mm |
| E | 4.00 ± 0.10   | mm |
| F | 2.00 ± 0.10   | mm |
| G | 1.75 ± 0.10   | mm |
| H | 3.50 ± 0.05   | mm |
| I | 1.88 typ      | mm |
| J | 1.10 max      | mm |

## J Reel:



|   |             |    |
|---|-------------|----|
| a | 178.0 ± 2.0 | mm |
| b | 13.0 ± 0.8  | mm |
| c | 7.9 min     | mm |
| d | 14.4 max    | mm |
| e | 1.5 min     | mm |



Quantity per Reel: **5000 pcs**

|                  |                  |      |              |            |
|------------------|------------------|------|--------------|------------|
| General Release: | Customer         |      |              |            |
|                  |                  |      |              |            |
|                  |                  |      |              |            |
| Date             | Signature        |      |              |            |
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|                  |                  |      |              |            |
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