

# Data Sheet



|                              |                       |                            |              |            |
|------------------------------|-----------------------|----------------------------|--------------|------------|
| <b>Description:</b>          | Suppression Choke SMD |                            | <b>Page:</b> | 1 / 3      |
| <b>Customer drawing no.:</b> | N/A                   | <b>WE iBE drawing no.:</b> | 110001101    |            |
| <b>Revision - index:</b>     | N/A                   | <b>Revision - index:</b>   | C            |            |
|                              |                       |                            | <b>Date:</b> | 07.08.2015 |

## Product values:



## Mechanical Dimensions (in mm):

\* Ebenheit gemäß PV2940 mit X=0,5  
 \* Planarity acc. PV2940 with X=0.5

Beidseitig min. 4 Windungen verklebt  
 On both sides min. 4 turns glued

Verzinnlänge 2x min. 4mm max. ¼ Wdg.  
 Tinning (2x) min. 4mm max. ¼ turn

Beinchen geprägt nach Wahl des Herstellers (2x)  
 Embosing of terminals acc. manufactures choice (2x)

Zul. Positionsabweichung (X/Y) des min. ø 3,5mm auf Mittigkeit der Drossel ±0,2  
 Permissible deviation of position (X/Y) of the min. Ø 3.5mm in relation to the center of the choke ±0.2

- Zeichnung nicht maßstabsgetreu, alle Maße in mm / Drawing not scaled, all dimensions in mm  
 - Schließwindung nach Wahl des Herstellers / Closing turn according to suppliers choice  
 - Schnittfläche der Beinchenenden unverzinkt (blank) / Cutting area of pins not tinned (bright)  
 - Wickel-Mitnehmerabdruck ("Beißerkante") im Bereich der ersten Windung zulässig / Mark of winding hook in the area of first winding permissible

Drawing not true to scale

## Electrical parameter:

|                              | @      | Value      | Tolerance | Unit | Test Condition         |
|------------------------------|--------|------------|-----------|------|------------------------|
| Inductance $L_0$ :           | +20 °C | 10.40      | ±20 %     | µH   | 10 kHz / 1 V           |
| Resistance $R_{DC}$ :        | +20 °C | 33.0       | ±20 %     | mΩ   |                        |
| Rated current $I_{DC}$ :     |        | 3.25       | max.      | A    | 40 K self heating      |
| L drop down 10 % $I_{sat}$ : |        | 7.40       | typical   | A    | $ \Delta L/L  < 10 \%$ |
| Operating temperature:       |        | -40 - +170 |           | °C   | including self heating |

\* The specified rated current was measured under laboratory conditions, it might deteriorate due to unpredictable thermal influences of surrounding heat sources. A use without a sufficient heat sink may create excessive heat and could decline the insulation resistance. Do not use products without simulating the thermal conditions of the installations circumstances.

## General specification:

|                                   | min.  | max.   |  |
|-----------------------------------|---|--------|--|
| Storage temperature:              | +10 °C  | +40 °C |  |
| Moisture sensitivity level (MSL): | 1   |        |  |
| Remarks:                          | - Do not use the product beyond the rated current and rated voltage as this may create excessive heat to prevent smoke and/or burning etc. and deteriorate the insulation resistance. |        |  |

## Test condition:

|                      |          |                              |
|----------------------|----------|------------------------------|
| Humidity:            | 33 %     |                              |
| Ambient temperature: | +20 °C   |                              |
| Measurement devices: | L        | Agilent E4980A or equivalent |
|                      | $R_{DC}$ | Burster 2316 or equivalent   |

## Customer:

General release:

Date

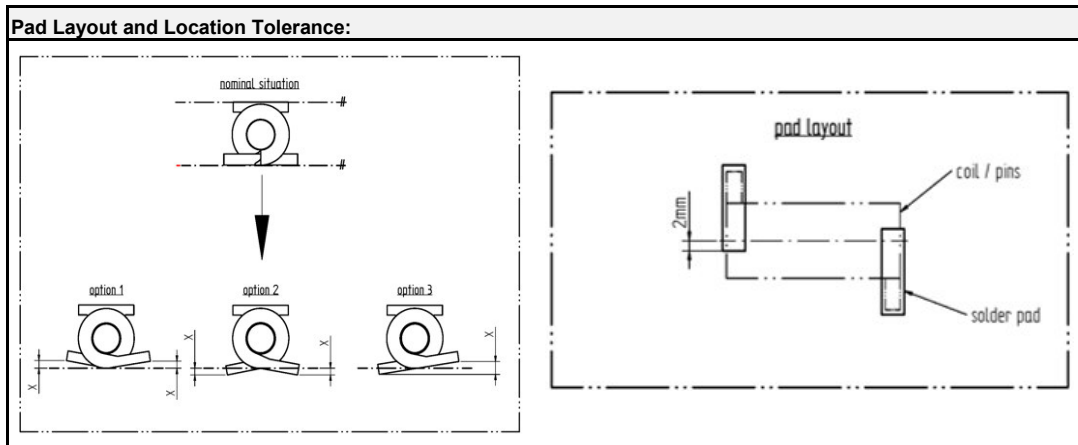
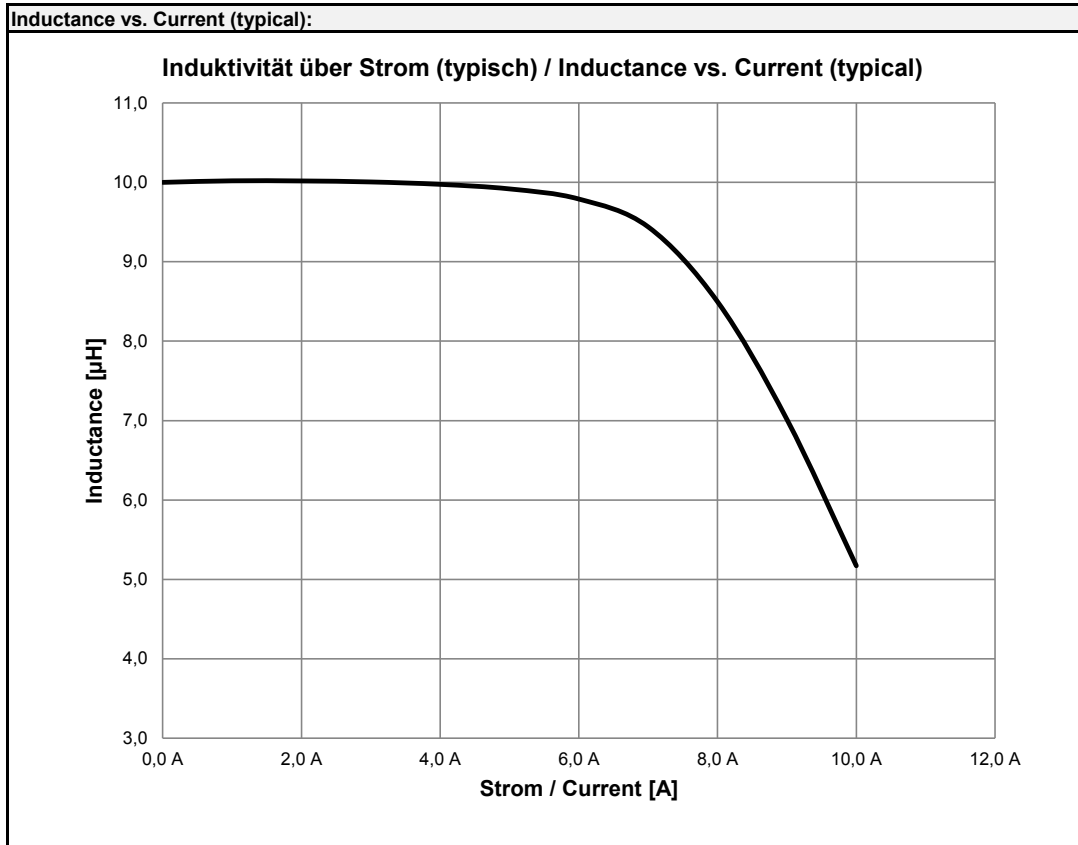
Signature

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|                                   |  |
|-----------------------------------|--|
| <b>Materials &amp; approvals:</b> |  |
| <i>base material:</i>             | NiZn   |
| <i>Finishing terminal:</i>        | SN100C   |
| <i>Glueing:</i>                   | Core securely fixed into coil by adhesive                                |
| <i>Wire:</i>                      | CuL $\varnothing$ 0.5 mm DIN IEC 60317; wire endings stripped and tinned |
| <i>Applicable documents:</i>      | ISM0100011<br>ISM0100010<br>IS60100003<br>IS60100002                     |



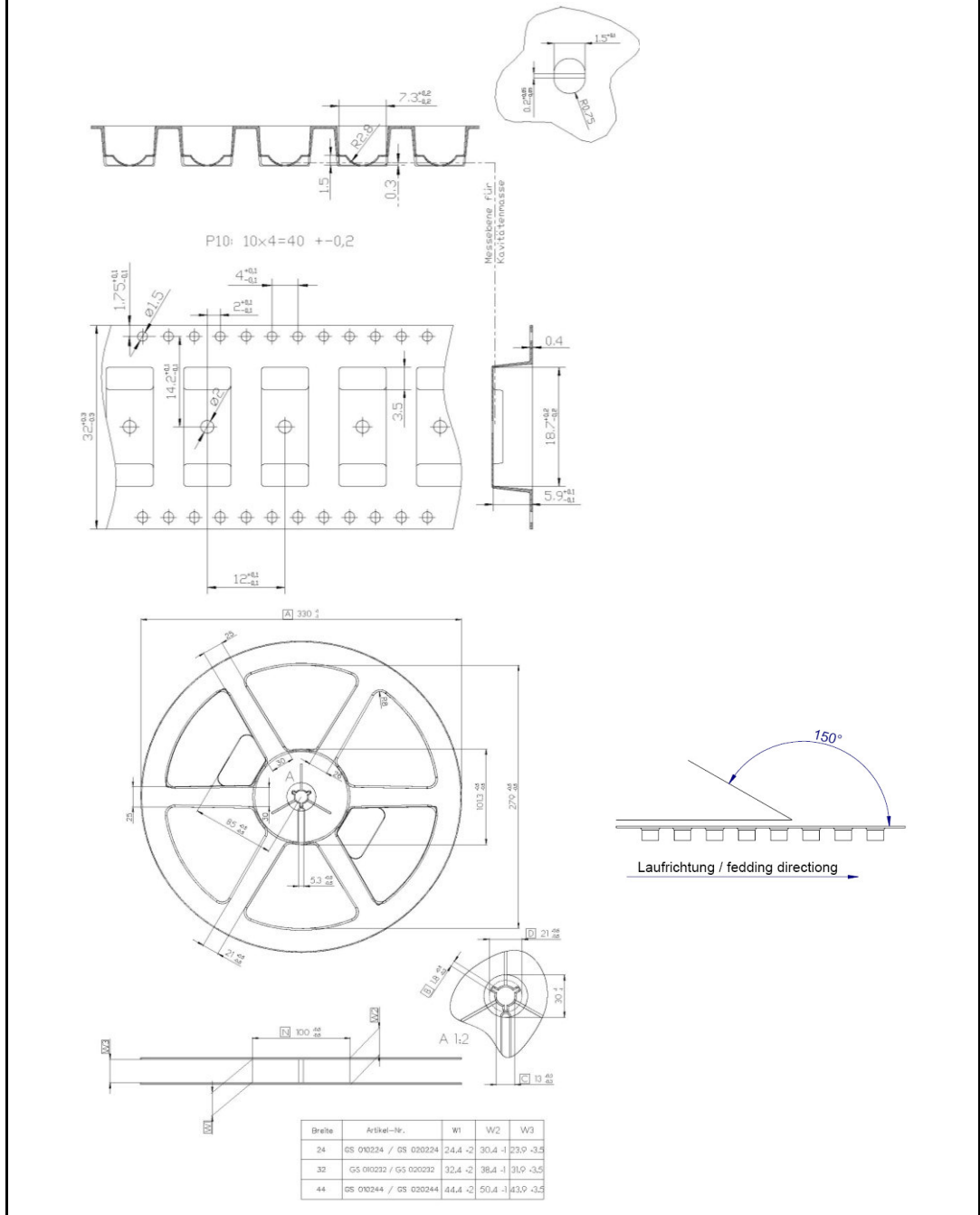
**Customer:**  
General release:

\_\_\_\_\_ Date

\_\_\_\_\_ Signature

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|  |                     |
|--|---------------------|
| <b>Rollenspezifikation/ Packaging specification:</b> |                     |
| <b>Packaging:</b>                                    | Tape and reel       |
| <b>Tape Material:</b>                                | Plastic foil        |
| <b>Quantity:</b>                                     | 800 pieces per reel |
| <b>Reel Size:</b>                                    | 330 mm              |



**Precautions:**  
 Although this product is designed for automotive applications and is qualified according AEC-Q 200 we ask you for submitting your application conditions for approval before ordering the product.

**Customer:**  
 General release:

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Signature