

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

7447785003

LF

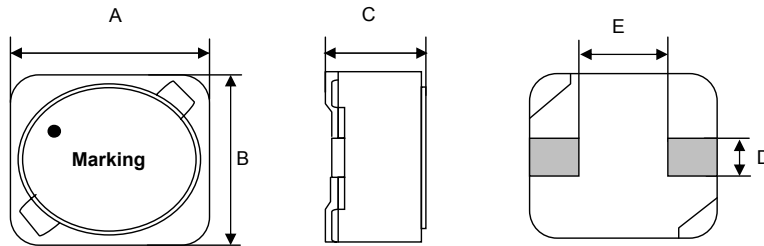


Bezeichnung : **SPEICHERDROSSEL WE-PD**

description : **POWER-CHOKE WE-PD**

DATUM / DATE : 2005-11-02

## A Mechanische Abmessungen / dimensions :



● = Start of winding

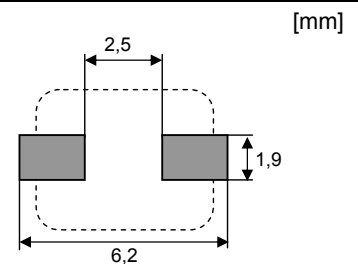
Marking = Inductance code

|   | Typ XS    |    |
|---|-----------|----|
| A | 5,9 ± 0,3 | mm |
| B | 6,2 ± 0,3 | mm |
| C | 3,3 max.  | mm |
| D | 1,5 ref.  | mm |
| E | 2,8 ref.  | mm |
|   |           |    |
|   |           |    |
|   |           |    |

## B Elektrische Eigenschaften / electrical properties :

| Eigenschaften / properties               | Testbedingungen / test conditions |                     | Wert / value | Einheit / unit | tol.  |
|------------------------------------------|-----------------------------------|---------------------|--------------|----------------|-------|
| Induktivität / inductance                | 100 kHz / 0,25V                   | L                   | 3,30         | μH             | ± 25% |
| DC-Widerstand / DC-resistance            | @ 20°C                            | R <sub>DC typ</sub> | 0,043        | Ω              | typ.  |
| DC-Widerstand / DC-resistance            | @ 20°C                            | R <sub>DC max</sub> | 0,067        | Ω              | max.  |
| Nennstrom / rated current                | ΔT=40 K                           | I <sub>DC</sub>     | 2,80         | A              | max.  |
| Sättigungsstrom / saturation current     | ΔL/L <10%                         | I <sub>sat</sub>    | 3,00         | A              | typ.  |
| Eigenres.-Frequenz / self-res.-frequency |                                   | SRF                 | 60,0         | MHz            | typ.  |

## C Lötpad / soldering spec. :



## D Prüfgeräte / test equipment :

HP 4274 A für/for L und/and Q

HP 34401 A für/for I<sub>DC</sub> und/and R<sub>DC</sub>

## E Testbedingungen / test conditions :

Luftfeuchtigkeit / humidity: 33%  
Umgebungstemperatur / temperature: +20°C

## F Werkstoffe & Zulassungen / material & approvals :

Basismaterial / base material: Ferrit/ferrite  
Endoberfläche / finishing electrode: 100% Sn  
Anbindung an Elektrode / soldering wire to plating: Sn/Ag/Cu - 96.5/3.0/0.5%  
Draht / wire: Class F

## G Eigenschaften / general specifications :

Betriebstemp. / operating temperature: -40°C - + 125°C  
Umgebungstemp. / ambient temperature: -40°C - + 85°C  
It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

Freigabe erteilt / general release:

Kunde / customer

Datum / date

Unterschrift / signature

Würth Elektronik

Geprüft / checked

Kontrolliert / approved

SST

Name

Version 1

Änderung / modification

05-11-02

Datum / date

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

D-74638 Waldenburg · Max-Eyth-Strasse 1 - 3 · Germany · Telefon (+49) (0) 7942 - 945 - 0 · Telefax (+49) (0) 7942 - 945 - 400  
http://www.we-online.de

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 Bezeichnung : SPEICHERDROSSEL WE-PD  
 description : POWER-CHOKE WE-PD

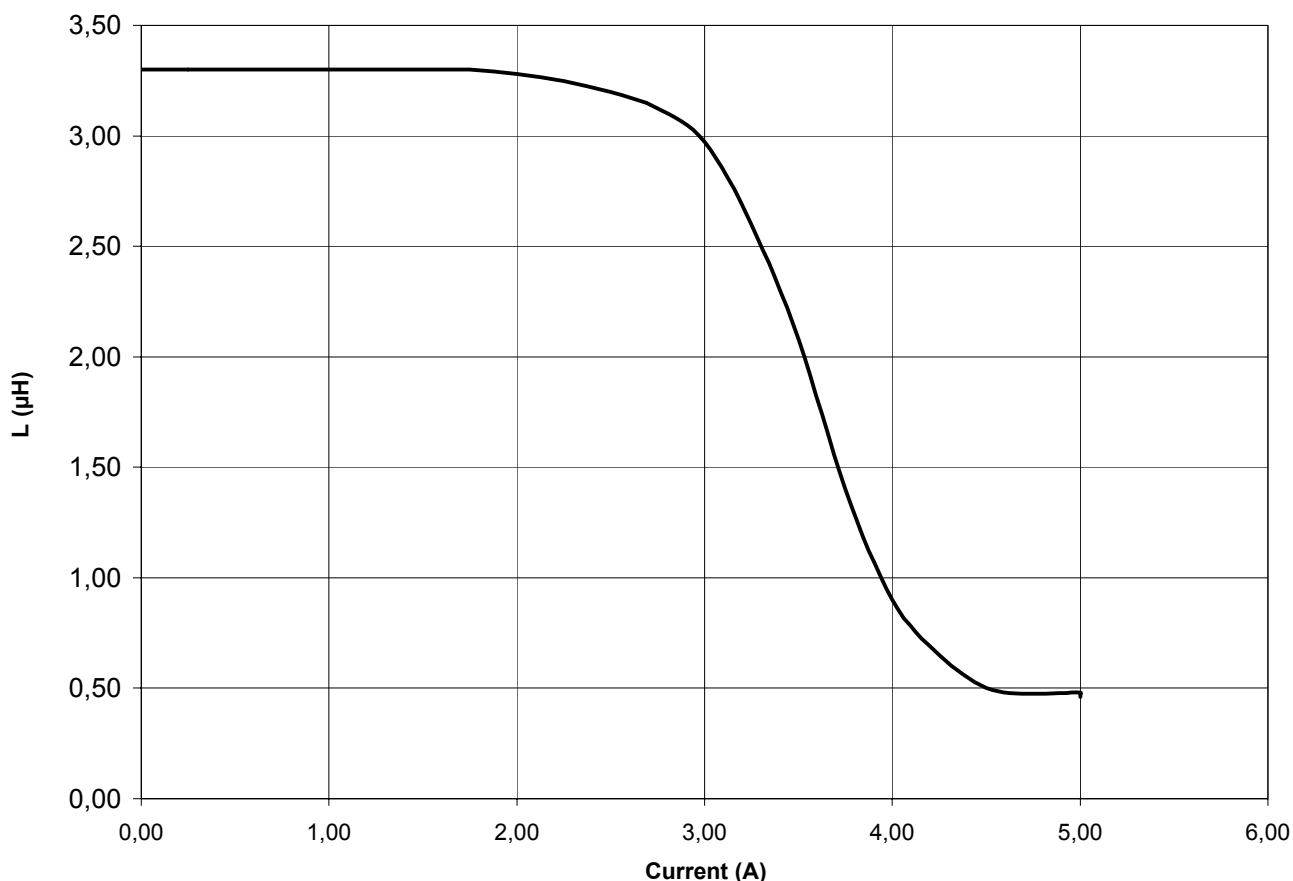
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## H Induktivitätskurve / Inductance curve :

Induktivität vs Strom (typ.) /  
 Inductance vs Current (typ.)



|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer         |      |                         |              |
|                                     |                          |      |                         |              |
|                                     |                          |      |                         |              |
|                                     |                          |      |                         |              |
| Datum / date                        | Unterschrift / signature |      |                         |              |
|                                     | Würth Elektronik         |      |                         |              |
|                                     |                          |      |                         |              |
|                                     |                          | ME   | Version 1               | 04-06-15     |
| Geprüft / checked                   | Kontrolliert / approved  | Name | Änderung / modification | Datum / date |

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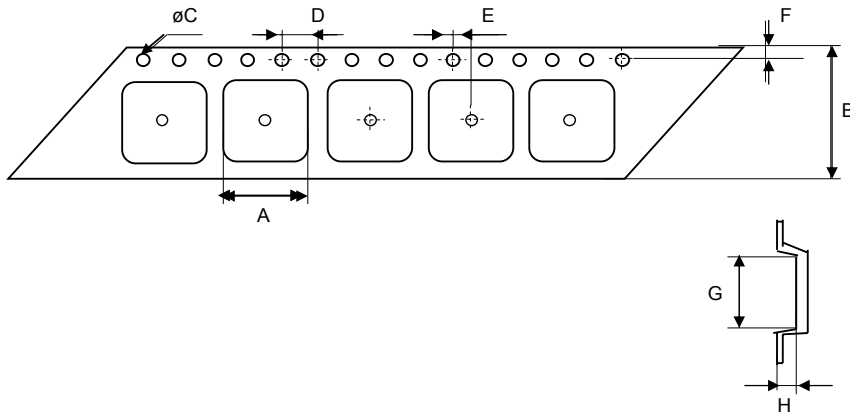
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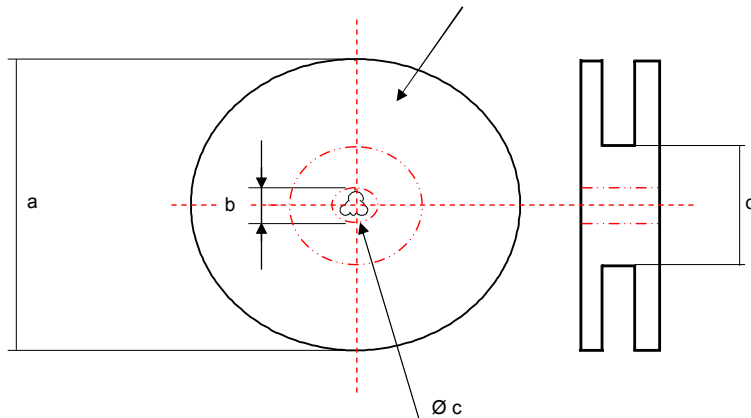
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## I Rollenspezifikation / Tape and reel specification :

## Gurtspezifikation / Tape specification:



|   |                |    |
|---|----------------|----|
| A | $6,6 \pm 0,1$  | mm |
| B | $16,0 \pm 0,3$ | mm |
| C | $1,50 \pm 0,1$ | mm |
| D | $4,00 \pm 0,1$ | mm |
| E | $2,00 \pm 0,1$ | mm |
| F | $1,75 \pm 0,1$ | mm |
| G | $7,00 \pm 0,1$ | mm |
| H | $3,40 \pm 0,1$ | mm |



## Rollenspezifikation / Reel specification:

|   |                 |    |
|---|-----------------|----|
| a | $330,0 \pm 0,5$ | mm |
| b | $20,20 \pm 0,1$ | mm |
| c | $13,00 \pm 1,0$ | mm |
| d | $100,0 \pm 1,0$ | mm |

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Geprüft / checked

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ME Version 1 04-06-15  
 Name Änderung / modification Datum / date

This electronic component is designed and developed with the intention for use in general electronics equipments. Before incorporating the components into any equipments in the field such as 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 or if there is possibility of direct damage or injury to human body. In addition, even electronic component in general electronic equipments, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed before use. It is essential to give consideration when to install a protective circuit at the design stage.

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