

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

74407000047

Bezeichnung :

SPEICHERDROSSEL WE-TPC

description :

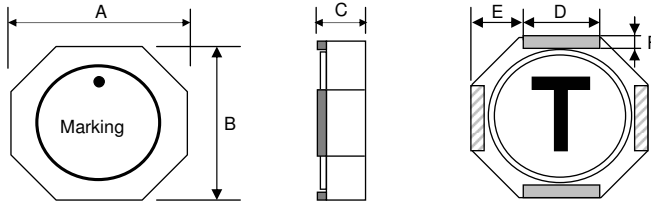
POWER-CHOKE WE-TPC



WÜRTH ELEKTRONIK

DATUM / DATE : 2009-04-21

## A Mechanische Abmessungen / dimensions:

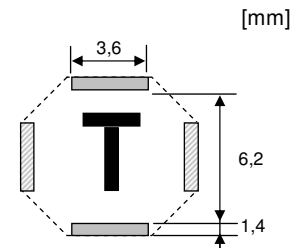


● start of winding

|   | 8x8x2      |    |
|---|------------|----|
| A | 8,0 ± 0,3  | mm |
| B | 8,0 ± 0,3  | mm |
| C | 1,80 ± 0,2 | mm |
| D | 3,2 typ.   | mm |
| E | 2,4 typ.   | mm |
| F | 1,0 typ.   | mm |
|   |            |    |
|   |            |    |
|   |            |    |

## C Lötpad / soldering spec.:

| Eigenschaften / properties               | Testbedingungen / test conditions |                      | Wert / value | Einheit / unit | tol. |
|------------------------------------------|-----------------------------------|----------------------|--------------|----------------|------|
| Induktivität / inductance                | 100 kHz / 10mA                    | Lo                   | 0,47         | μH             | ±30% |
| DC-Widerstand / DC-resistance            | @ 20 °C                           | R <sub>DC</sub> typ. | 5,8          | mΩ             | typ. |
| DC-Widerstand / DC-resistance            | @ 20 °C                           | R <sub>DC</sub> max. | 7,8          | mΩ             | max. |
| Nennstrom / rated Current                | ΔT = 40 K                         | I <sub>N</sub>       | 7,0          | A              | typ. |
| Sättigungsstrom / saturation current     | ΔL/L < 35%                        | I <sub>sat</sub>     | 6,5          | A              | typ. |
| Eigenres.-Frequenz / self-res.-frequency | @ 20 °C                           | SRF                  | 300          | MHz            | typ. |



## D Prüfgeräte / test equipment:

WAYNE KERR 3260B für/for L<sub>0</sub>; I<sub>SAT</sub>

Agilent N5776A für/for I<sub>DC</sub>;

Metra Hit 271 für/for 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

Draht / wire: Class H

Endoberfläche / finishing electrode: Ag/Ni/Sn

## 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 | ME   | Version 4               | 09-04-21     |
|                                     | Würth Elektronik         | ME   | Version 3               | 08-11-26     |
|                                     |                          | ME   | Version 2               | 08-04-14     |
|                                     |                          | ME   | Version 1               | 08-02-14     |
| Geprüft / checked                   | Kontrolliert / approved  | Name | Änderung / modification | Datum / date |

Würth Elektronik eiSos GmbH & Co. KG

D-74638 Waldenburg · Max-Eyth-Strasse 1 · Germany · Telefon (+49) (0) 7942 - 945 - 0 · Telefax (+49) (0) 7942 - 945 - 400

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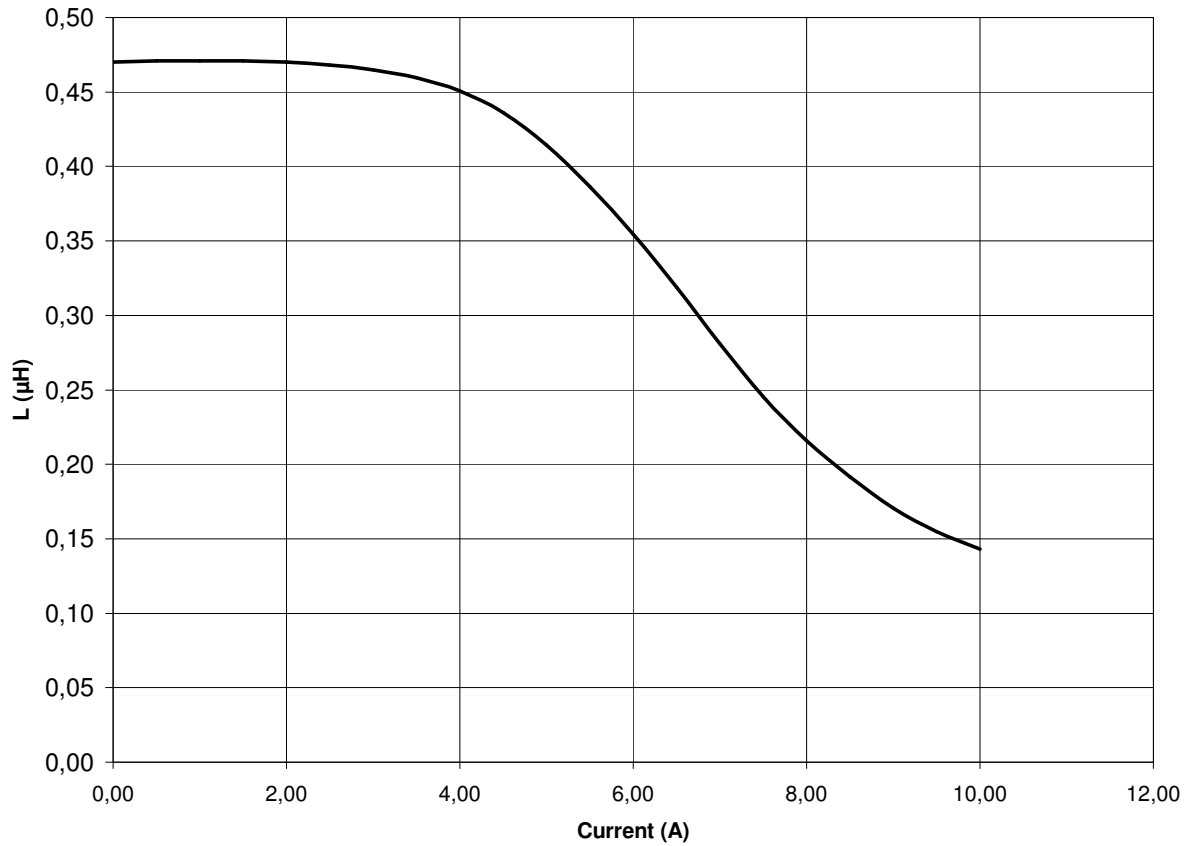


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## H Induktivitätskurve / Inductance curve:

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



|                                     |                          |  |      |                         |              |
|-------------------------------------|--------------------------|--|------|-------------------------|--------------|
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|                                     |                          |  |      |                         |              |
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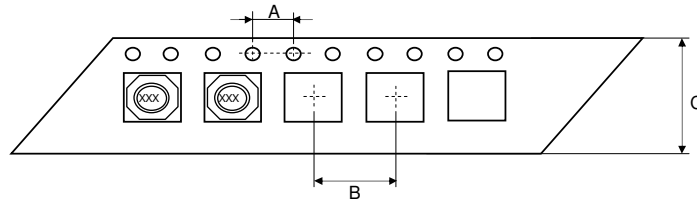


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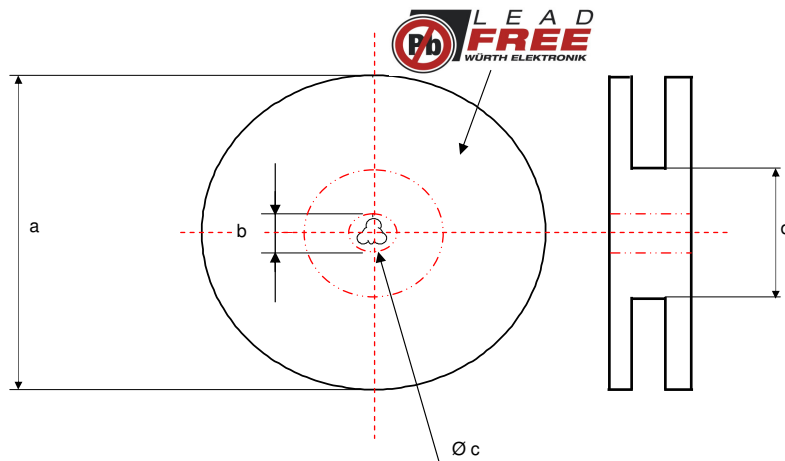
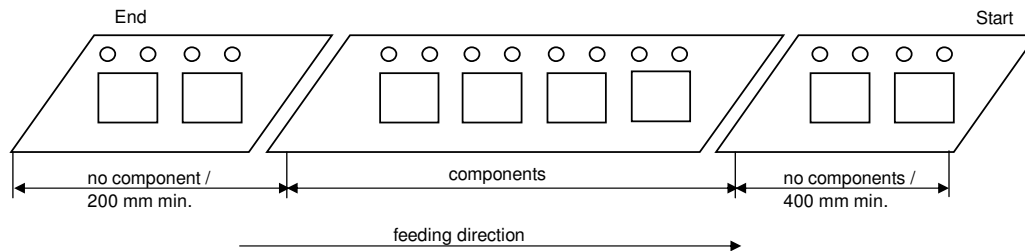
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## I Rollenspezifikation / tape and reel specification:

Gurtspezifikation / Tape specification:



|   |             |    |
|---|-------------|----|
| A | 4,00 ± 0,1  | mm |
| B | 12,00 ± 0,1 | mm |
| C | 16,0 ± 0,2  | mm |



| Rollenspezifikation / Reel specification: |             |    |
|-------------------------------------------|-------------|----|
| a                                         | 178,0 ± 2,0 | mm |
| b                                         | 21,00 ± 0,8 | mm |
| c                                         | 13,00 ± 0,5 | mm |
| d                                         | 50,00 ± 1,0 | mm |

|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
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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.

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