

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

74402800082

Bezeichnung :

SPEICHERDROSSEL WE-TPC

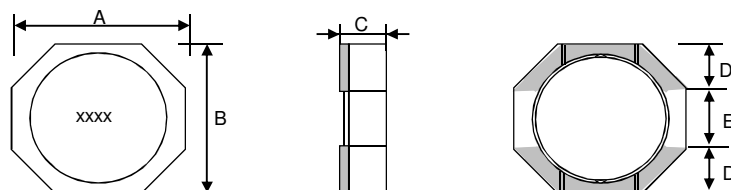
description :

POWER-CHOKE WE-TPC



DATUM / DATE : 2010-10-01

## A Mechanische Abmessungen / dimensions:

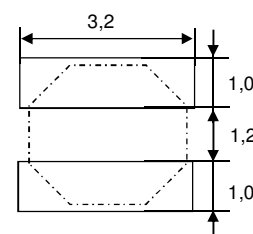


| size | 2811       |    |
|------|------------|----|
| A    | 2,8 ± 0,2  | mm |
| B    | 2,8 ± 0,2  | mm |
| C    | 1,1 ± 0,10 | mm |
| D    | 0,9 typ.   | mm |
| E    | 0,9 typ.   | mm |
|      |            |    |
|      |            |    |
|      |            |    |
|      |            |    |

## B Elektrische Eigenschaften / electrical properties:

| Eigenschaften / properties               | Testbedingungen / test conditions |                      | Wert / value | Einheit / unit | tol. |
|------------------------------------------|-----------------------------------|----------------------|--------------|----------------|------|
| Induktivität / inductance                | 100 kHz / 10mA                    | Lo                   | 0,82         | μH             | ±35% |
| DC-Widerstand / DC-resistance            | @ 20 °C                           | R <sub>DC</sub> typ. | 53           | mΩ             | typ. |
| DC-Widerstand / DC-resistance            | @ 20 °C                           | R <sub>DC</sub> max. | 65           | mΩ             | max. |
| Nennstrom / rated Current                | ΔT = 40 K                         | I <sub>N</sub>       | 2,0          | A              | typ. |
| Sättigungsstrom / saturation current     | ΔL/L = < 35%                      | I <sub>sat</sub>     | 1,6          | A              | typ. |
| Eigenres.-Frequenz / self-res.-frequency |                                   | SRF                  | 180          | MHz            | typ. |

## C Lötspad / soldering spec.:



## D Prüfgeräte / test equipment:

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

HP 34401 A & Fluke 54II 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 /180 °C |
| 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 |      |                         |              |
|                                     | Würth Elektronik         | ME   | Version 3               | 10-10-01     |
|                                     |                          | ME   | Version 2               | 08-04-01     |
|                                     |                          | ME   | Version 1               | 07-07-01     |
| 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  
http://www.we-online.de

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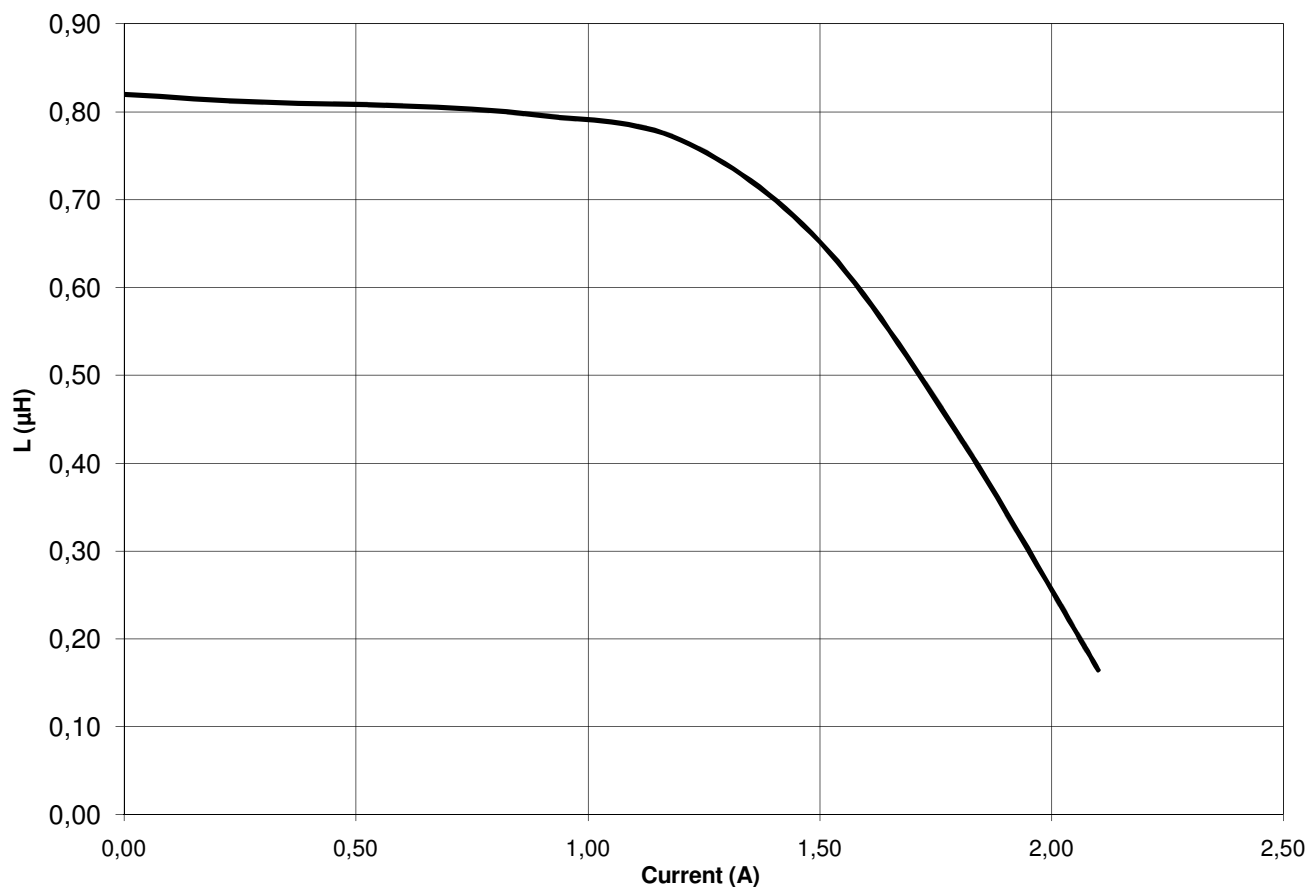
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## H Induktivitätskurve / Inductance curve:

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



|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
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|                                     |                          |      |                         |              |
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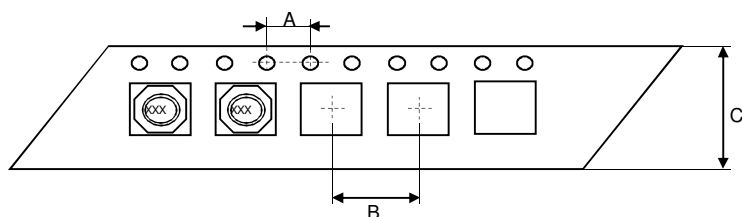
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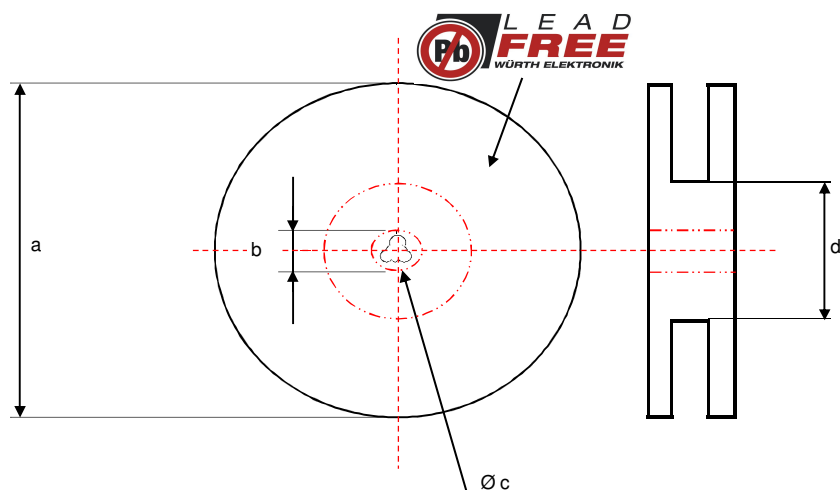
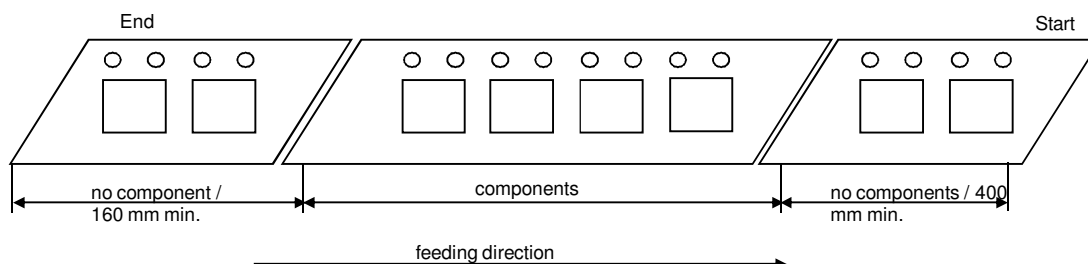
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## I Rollenspezifikation / tape and reel specification:

Gurtspezifikation / Tape specification:



|   |                |    |
|---|----------------|----|
| A | $4,00 \pm 0,1$ | mm |
| B | $8,00 \pm 0,1$ | mm |
| C | $12,0 \pm 0,2$ | mm |



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

|                                     |                          |      |                         |              |
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|                                     |                          |      |                         |              |
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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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