

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

744042680

Bezeichnung :

SPEICHERDROSSEL WE-TPC

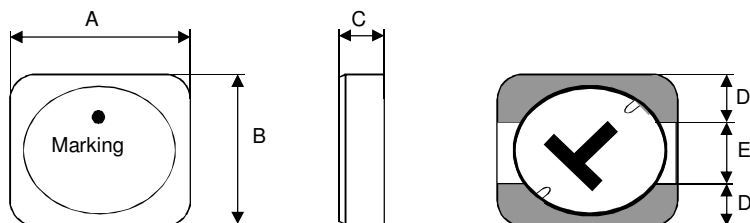
description :

POWER-CHOKE WE-TPC



DATUM / DATE : 2012-02-07

## A Mechanische Abmessungen / dimensions:



|   | Type 4818 |    |
|---|-----------|----|
| A | 4,8 ± 0,2 | mm |
| B | 4,8 ± 0,2 | mm |
| C | 1,8 ± 0,2 | mm |
| D | 1,60 typ. | mm |
| E | 1,60 typ. | mm |
|   |           |    |
|   |           |    |
|   |           |    |

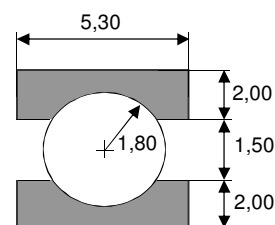
● = Start of winding

Marking = Inductance code

## B Elektrische Eigenschaften / electrical properties:

| Eigenschaften / properties               | Testbedingungen / test conditions |                     | Wert / value | Einheit / unit | tol.  |
|------------------------------------------|-----------------------------------|---------------------|--------------|----------------|-------|
| Induktivität / inductance                | 100 kHz / 0,1V                    | L                   | 68.00        | μH             | ± 30% |
| DC-Widerstand / DC-resistance            | @ 20 °C                           | R <sub>DC typ</sub> | 0.715        | Ω              | typ.  |
| DC-Widerstand / DC-resistance            | @ 20 °C                           | R <sub>DC max</sub> | 0.860        | Ω              | max.  |
| Nennstrom / rated current                | ΔT=30 K                           | I <sub>R</sub>      | 500          | mA             | max.  |
| Sättigungsstrom / saturation current     | ΔL/L <35%                         | I <sub>sat</sub>    | 380          | mA             | typ.  |
| Eigenres.-Frequenz / self-res.-frequency |                                   | f <sub>res</sub>    | 13.0         | MHz            | typ.  |

## C Lötpad / soldering spec.:



## D Prüfgeräte / test equipment:

Wayne Kerr 3260B für/for L, I<sub>sat</sub>

GMC Metrahit 271 Milliohmometer für/for R<sub>DC</sub>

Dostmann T600 Thermometer für/for I<sub>R</sub>

Agilent 4396B für/for f<sub>res</sub>

## E Testbedingungen / test conditions:

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

## F Werkstoffe & Zulassungen / material & approvals:

Basismaterial / base material: Ferrit  
Draht / wire: Class H  
Endoberfläche / finishing electrode: Sn/Ag/Cu - 96.5/3.0/0.5%

## G Eigenschaften / general specifications:

Betriebstemp. / operating temperature: -40 °C - + 125 °C  
Umgebungstemp. / ambient temperature: -40 °C - + 95 °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         |      |                         |              |
|                                     |                          |      |                         |              |
|                                     |                          | CZ   | Version 1               | 12-02-07     |
| Geprüft / checked                   | Kontrolliert / approved  | Name | Änderung / modification | 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.com

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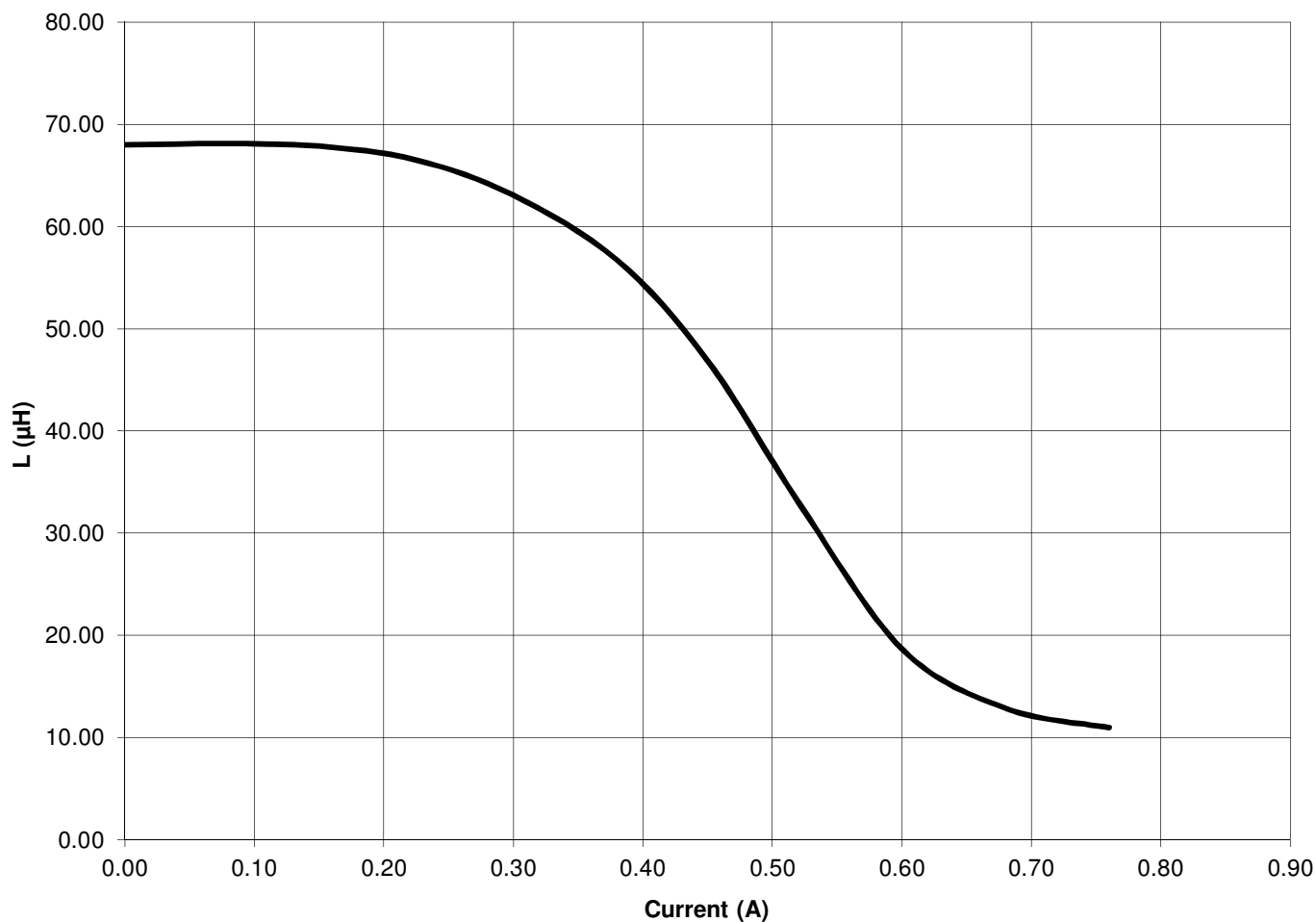


WÜRTH ELEKTRONIK

DATUM / DATE : 2012-02-07

## H Induktivitätskurve / Inductance curve :

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



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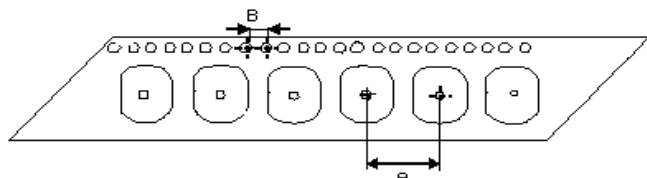
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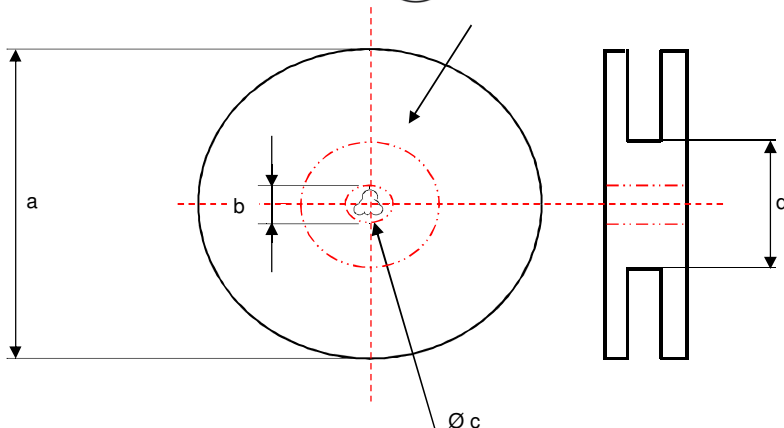
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## I Rollenspezifikation / tape and reel specification:

## Gurtspezifikation / Tape specification:

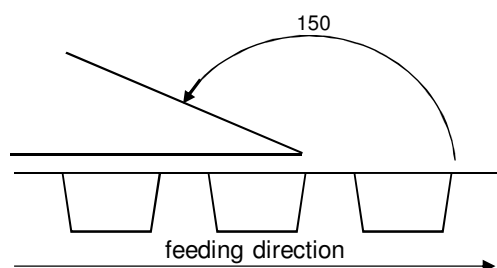


|   |          |    |
|---|----------|----|
| A | 8,0 ±1,0 | mm |
| B | 4,0 ±1,0 | mm |
|   |          |    |
|   |          |    |



## Rollenspezifikation / Reel specification:

|   |                      |    |
|---|----------------------|----|
| a | 178 ± 0,5            | mm |
| b | 20,20 ± 0,1          | mm |
| c | 13,00 ± 0,5<br>± 1,0 | mm |
| d | 50,0 ± 1,0           | mm |



The force for tearing off cover tape is 20 to 70 grams in arrow direction

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

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

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