

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number : **74479787147A**

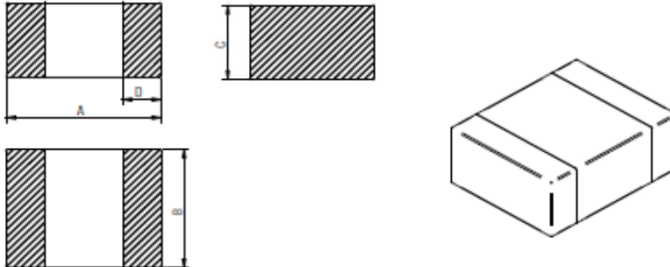
Bezeichnung : **SMD-Powerinduktivität WE-PMI**

description : **SMD-power inductance WE-PMI**



DATUM / DATE : 2011-07-25

## A Mechanische Abmessungen / dimensions:

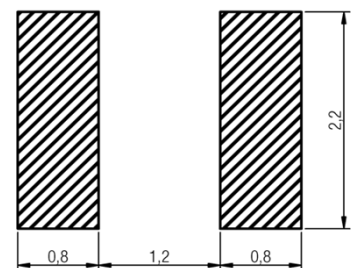


|   | Größe / size 1008 |    |
|---|-------------------|----|
| A | <b>2,5 ± 0,2</b>  | mm |
| B | <b>2,0 ± 0,2</b>  | mm |
| C | <b>1,0 ± 0,2</b>  | mm |
| D | <b>0,5 ± 0,2</b>  | mm |
|   |                   |    |
|   |                   |    |
|   |                   |    |
|   |                   |    |

## B Elektrische Eigenschaften / electrical properties:

| Eigenschaften / properties               | Testbedingungen / test conditions |                  | Wert / value | Einheit / unit | tol. |
|------------------------------------------|-----------------------------------|------------------|--------------|----------------|------|
| Induktivität / inductance                | <b>1 MHz</b>                      | L                | <b>0,47</b>  | μH             | ±20% |
| Güte Q / Q factor                        | <b>1 MHz</b>                      | Q                | <b>15</b>    |                | min. |
| DC-Widerstand / DC-resistance            | <b>@ 20 °C</b>                    | R <sub>DC</sub>  | <b>40</b>    | mΩ             | ±25% |
| Eigenres.-Frequenz / self-res.-frequency |                                   | f <sub>res</sub> | <b>110</b>   | MHz            | min. |
| Nennstrom / rated current                | <b>ΔT=20 K</b>                    | I <sub>DC</sub>  | <b>1400</b>  | mA             | typ. |
| Nennstrom / rated current                | <b>ΔT=40 K</b>                    | I <sub>DC</sub>  | <b>1800</b>  | mA             | typ. |
| Sättigungsstrom / saturation current     | <b> ΔL/L =30%</b>                 | I <sub>sat</sub> | <b>950</b>   | mA             | typ. |

## C Lötpad / soldering spec.:



## D Prüfgeräte / test equipment:

**Agilent E4991 A** für/for L und/and Q und/and SRF

**GMC Metrahit 27i** für/for R<sub>DC</sub>

**WK3260B** für/for I<sub>sat</sub>

**Agilent 6032** für/for I<sub>DC</sub>

## E Testbedingungen / test conditions:

Luftfeuchtigkeit / humidity: 33%

Umgebungstemperatur / temperature: +20 °C

## F Werkstoffe & Zulassungen / material & approvals:

Basismaterial / base material: Ferrit / ferrite

## 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

|      |                         |              |
|------|-------------------------|--------------|
| Ddi  | Version 2               | 11-05-24     |
| Ddi  | Version 1               | 11-01-26     |
| Name | Änderung / modification | Datum / date |

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

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<http://www.we-online.com>

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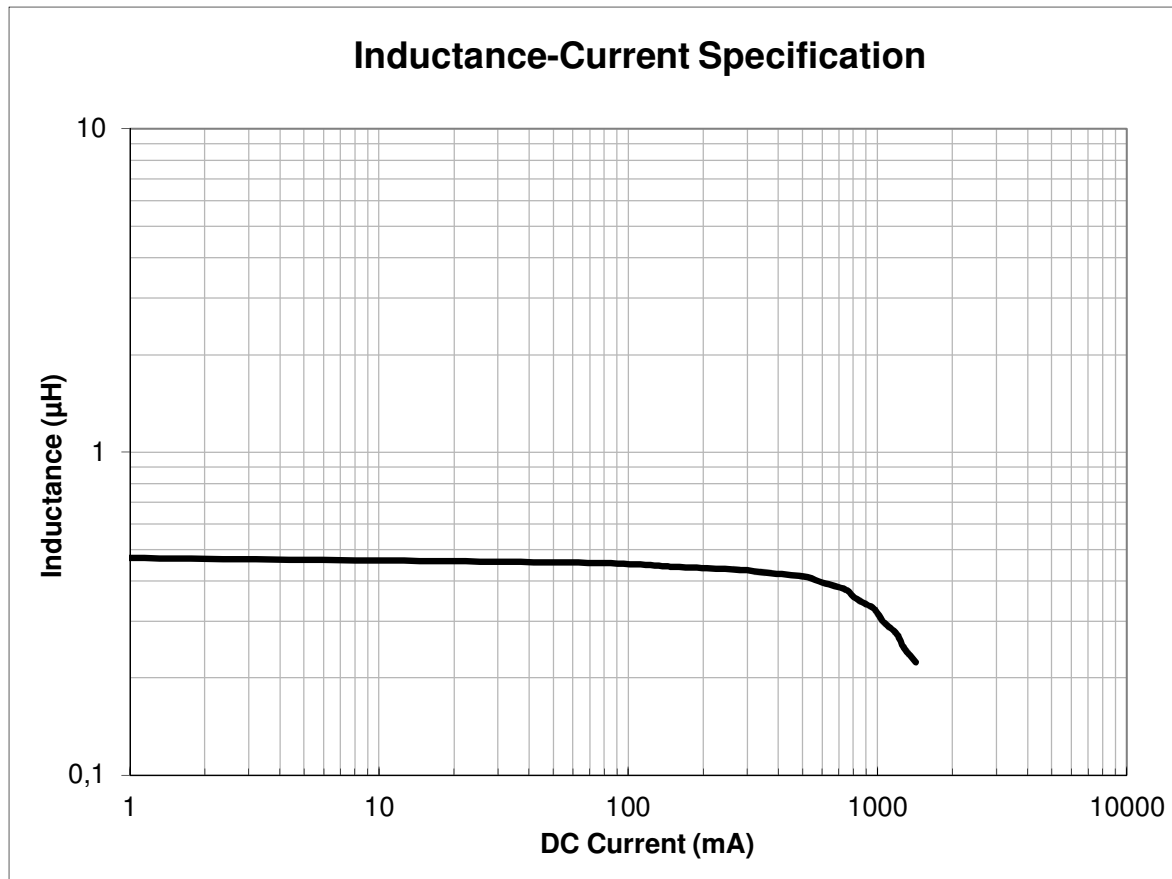
Bezeichnung : SMD-Powerinduktivität WE-PMI

description : SMD-power inductance WE-PMI



DATUM / DATE : 2011-07-25

## H Induktivitätskurve / Inductance curve :



|                                     |                          |           |          |                         |              |
|-------------------------------------|--------------------------|-----------|----------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer         |           |          |                         |              |
|                                     |                          |           |          |                         |              |
|                                     |                          |           |          |                         |              |
|                                     |                          |           |          |                         |              |
| Datum / date                        | Unterschrift / signature |           |          |                         |              |
|                                     | Würth Elektronik         |           |          |                         |              |
|                                     | Ddi                      | Version 2 | 11-05-24 |                         |              |
|                                     | Ddi                      | Version 1 | 11-01-26 |                         |              |
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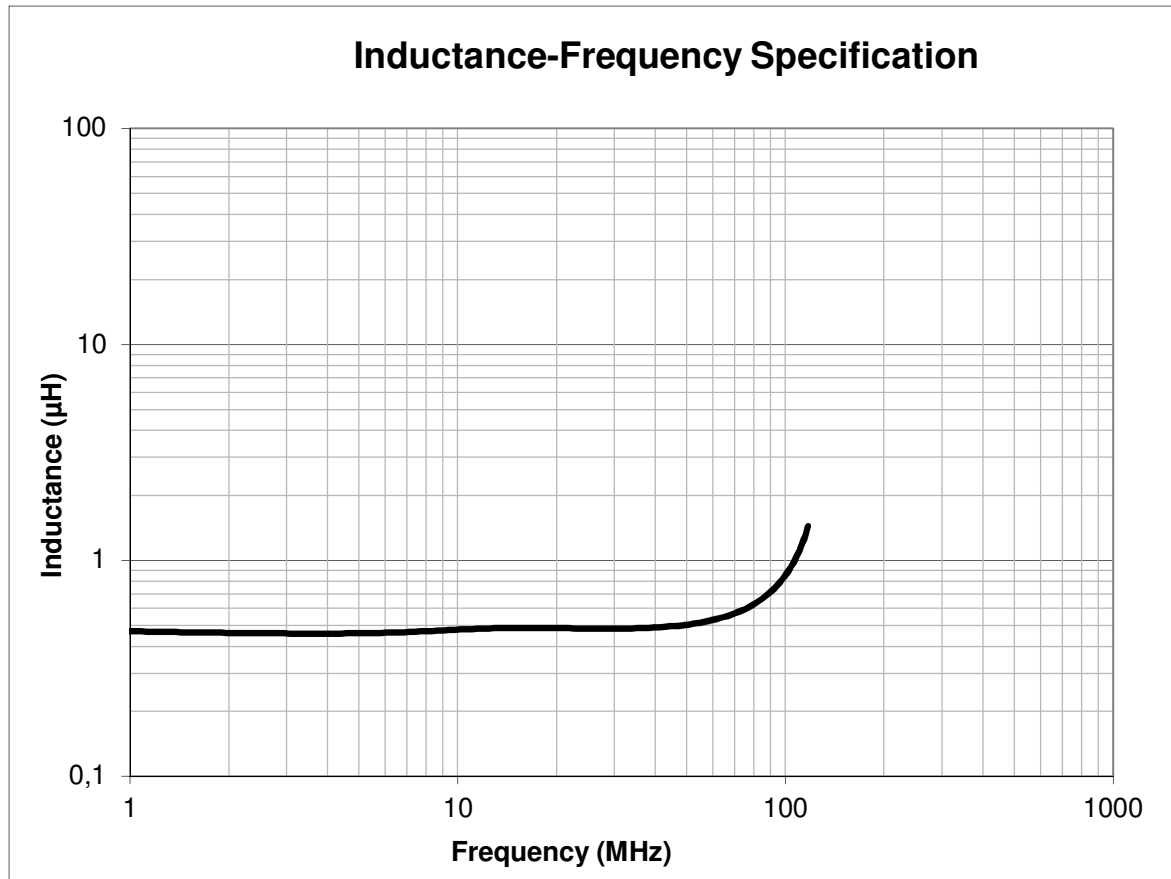
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## I Induktivitätskurve / Inductance curve :



|                                     |                          |           |      |                         |              |
|-------------------------------------|--------------------------|-----------|------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer         |           |      |                         |              |
|                                     |                          |           |      |                         |              |
|                                     |                          |           |      |                         |              |
|                                     |                          |           |      |                         |              |
| Datum / date                        | Unterschrift / signature |           |      |                         |              |
|                                     | Würth Elektronik         |           |      |                         |              |
|                                     | Ddi                      | Version 2 |      |                         | 11-05-24     |
|                                     | Ddi                      | Version 1 |      |                         | 11-01-26     |
| Geprüft / checked                   | Kontrolliert / approved  |           | Name | Änderung / modification | Datum / date |

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## J Rollenspezifikation / Tape & Reel specification :

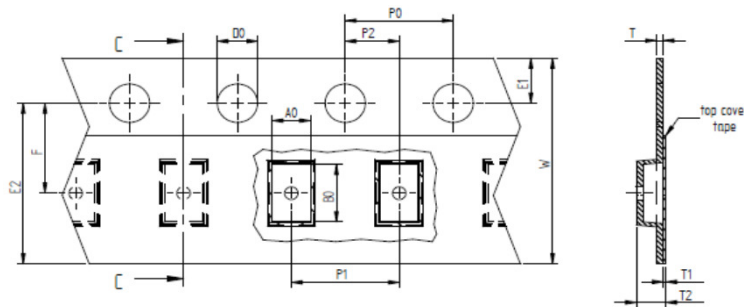
### Tape Spezifikation / tape specification

Material / Material:

Polystyrene / polystyrene

Abmessungen in / dimensions in

mm / mm



|           |      | A0   | B0   | W            | P1    | T     | T1   | T2   | D0           | E1    | E2   | F      | P0    | P2     | VPE /<br>packaging unit |
|-----------|------|------|------|--------------|-------|-------|------|------|--------------|-------|------|--------|-------|--------|-------------------------|
| tolerance |      | typ. | typ. | +0,3<br>-0,1 | ± 0,1 | ± 0,1 | max. | typ. | +0,1<br>-0,0 | ± 0,1 | min. | ± 0,05 | ± 0,1 | ± 0,05 |                         |
| size      | 1008 | 2,50 | 3,00 | 8,00         | 4,00  | 0,25  | 0,10 | 1,42 | 1,50         | 1,75  | 6,25 | 3,50   | 4,00  | 2,00   | 3000                    |

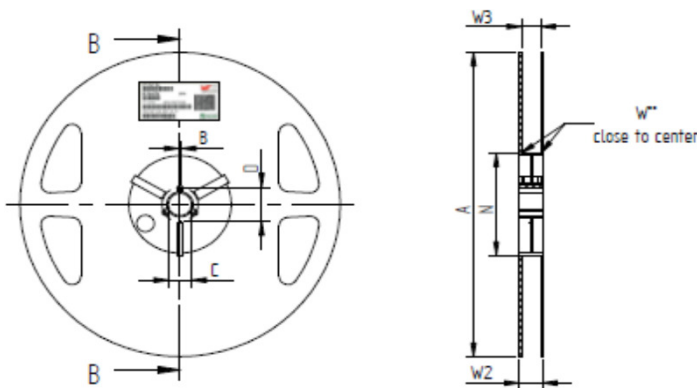
### Reel Spezifikation / reel specification

Material / Material:

Kunststoff / Plastic

Abmessungen in / dimensions in

mm / mm



| Maß /<br>size | Bandbreite 8 mm /<br>Tape width 8 mm |       |
|---------------|--------------------------------------|-------|
| A             | 178                                  |       |
| B             | 1,5                                  | min.  |
| C             | 13,0                                 | ± 0,8 |
| D             | 20,2                                 | min.  |
| N             | 50                                   | min.  |
| W1            | 8,4                                  | ± 1,5 |
| W2            | 14,4                                 | max.  |
| W3            | 7,9                                  | min.  |
| W3            | 10,9                                 | max.  |

|                                     |                          |  |      |                         |              |
|-------------------------------------|--------------------------|--|------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer         |  |      |                         |              |
|                                     |                          |  |      |                         |              |
|                                     |                          |  |      |                         |              |
|                                     |                          |  |      |                         |              |
| Datum / date                        | Unterschrift / signature |  |      |                         |              |
|                                     | Würth Elektronik         |  |      |                         |              |
|                                     |                          |  | Ddi  | Version 2               | 08-01-02     |
|                                     |                          |  | Ddi  | Version 1               | 07-11-08     |
| Geprüft / checked                   | Kontrolliert / approved  |  | Name | Änderung / modification | Datum / date |

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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