

744771147W Datasheet

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DiGi Electronics Part Number	744771147W-DG
Manufacturer	Würth Elektronik
Manufacturer Product Number	744771147W
Description	FIXED IND 47UH 2.2A 84 MOHM SMD
Detailed Description	47 μ H Shielded Drum Core, Wirewound Inductor 2.2 A 84mOhm Max Nonstandard



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Purchase and inquiry

Manufacturer Product Number:

744771147W

Series:

WE-PDW

Type:

Drum Core, Wirewound

Inductance:47 μ H**Current Rating (Amps):**

2.2 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.472" L x 0.472" W (12.00mm x 12.00mm)

Manufacturer:

Würth Elektronik

Product Status:

Active

Material - Core:

Ferrite

Tolerance: \pm 20%**Current - Saturation (Isat):**

2.6A

DC Resistance (DCR):

84mOhm Max

Frequency - Self Resonant:

8MHz

Operating Temperature:

-40°C ~ 125°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.256" (6.50mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

Spezifikation für Freigabe / specification for release

Kunde / customer :

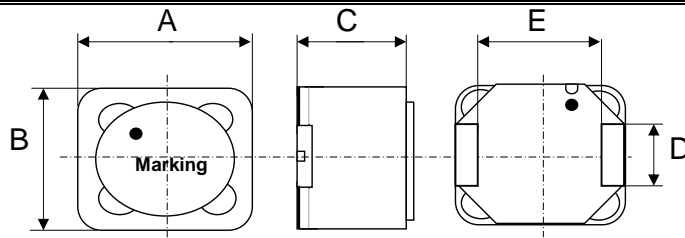
Artikelnummer / part number :

744771147W

Bezeichnung : **SPEICHERINDUKTIVITÄT WE-PD**description : **POWER-INDUCTOR WE-PD**

DATUM / DATE : 2012-09-10

A Mechanische Abmessungen / dimensions :



	1260	
A	12,0 ± 0,4	mm
B	12,0 ± 0,4	mm
C	6,5 max	mm
D	5,0 ± 0,2	mm
E	7,2 ± 0,2	mm

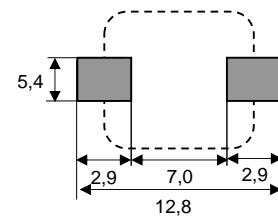
= Start of winding

Marking = Inductance code

B Elektrische Eigenschaften / electrical properties :

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität / inductance	100 kHz / 0,25V	L	47	μH	±20%
DC-Widerstand / DC-resistance	@ 20°C	R _{DC typ}	72	mΩ	typ.
DC-Widerstand / DC-resistance	@ 20°C	R _{DC max}	84	mΩ	max.
Nennstrom / rated current	ΔT= 40 K	I _R	2,20	A	max.
Sättigungsstrom / saturation current	ΔL/L < 10%	I _{sat}	2,60	A	typ.
Eigenres.-Frequenz / self-res.-frequency	@20°C	f _{res}	8,0	MHz	typ.

C Lötpad / soldering spec. :



D Prüfgeräte / test equipment :

WAYNE KERR 3260B für/for L; I_{sat}Agilent N5776A / Dostmann T905 für/for I_RGMC Metrahit 271 für/for R_{DC}Agilent E4991A für/for f_{res}

E Testbedingungen / test conditions :

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

F Werkstoffe & Zulassungen / material & approvals :

Basismaterial / base material: Ferrit/ferrite
 Thermanal base material: Copper- alloy
 Thermanal finish: Ni barrier / matte Sn
 Draht / wire: Class H

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.
 Glue and base can get yellow after sodlering process

Freigabe erteilt / general release:	Kunde / customer		
.....		
Datum / date	Unterschrift / signature		
	Würth Elektronik		
.....		
Geprüft / checked	Kontrolliert / approved	ALa	Version 1 12-09-10
		Name	Änderung / modification Datum / date

Würth Elektronik eiSos GmbH & Co. KG

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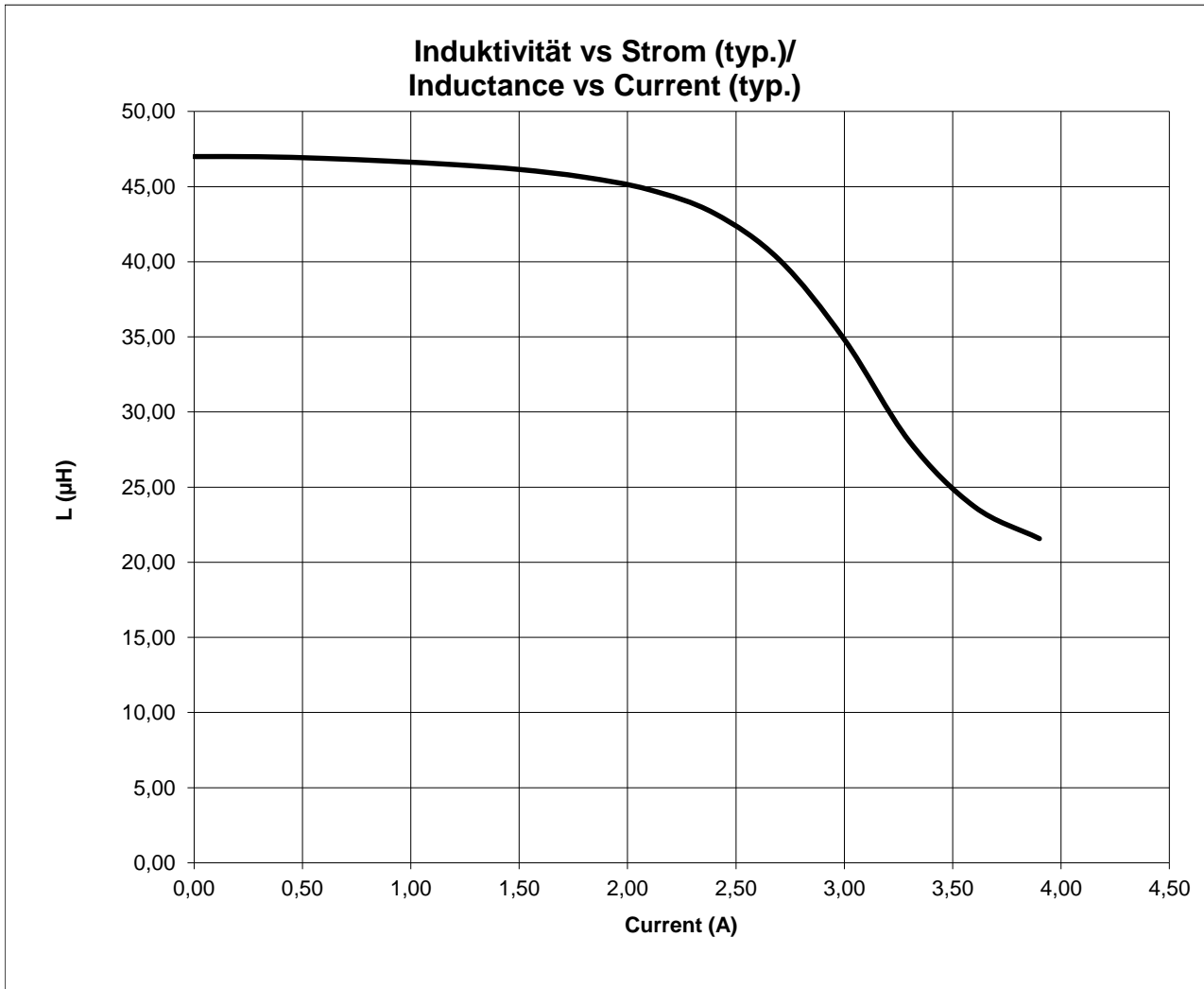
Spezifikation für Freigabe / specification for release

Kunde / customer :
 Artikelnummer / part number : **744771147W**
 Bezeichnung : **SPEICHERINDUKTIVITÄT WE-PD**
 description : **POWER-INDUCTOR WE-PD**



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H Induktivitätskurve / Inductance curve :



Freigabe erteilt / general release:	Kunde / customer		
.....		
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.....	Würth Elektronik		
.....		
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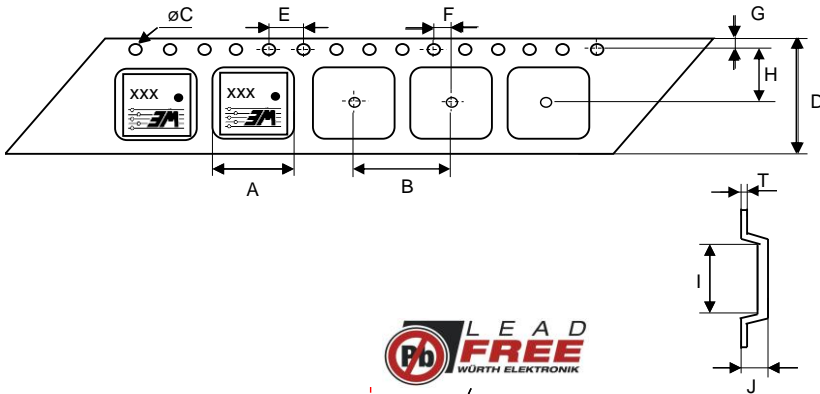
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I Rollenspezifikation / tape and reel specification :

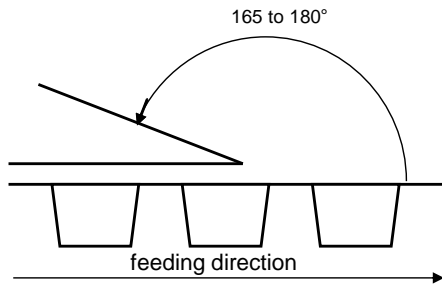


Gurtspezifikation / Tape specification:

A	12,7 ± 0,1	mm
B	16,0 ± 0,1	mm
C	1,50 +0,1 -0,0	mm
D	24,0 ± 0,2	mm
E	4,00 ± 0,1	mm
F	2,00 ± 0,1	mm
G	1,75 ± 0,1	mm
H	11,5 ± 0,1	mm
I	12,7 ± 0,1	mm
J	6,20 ± 0,1	mm
T	0,40 ± 0,05	mm

Rollenspezifikation / Reel specification:

a	330,0 ± 2,0	mm
b	21,00 ± 0,8	mm
c	13,00 ± 0,5	mm
d	100,0 ± 1,0	mm



The force for tearing off cover tape is 10 to 130 grams in arrow direction

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Geprüft / checked	Würth Elektronik			
	Kontrolliert / approved		ALa	Version 1
			12-09-10	
		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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