Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Wurth Electronics Inc 749196510

For any questions, you can email us directly: sales@integrated-circuit.com



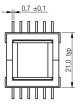
Datasheet of 749196510 - TRANSFORMER 9.9UH 1.91A SMD

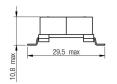
more than you expect

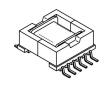
A Dimensions: [mm]





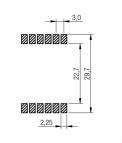






Scale - 1:1

B Recommended land pattern: [mm]



Scale - 1:1



D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance base	10 kHz/ 1 V	L _{base}	9.9	μН	±20%
Turns ratio	N1:N2:N3:N4:N5:N6	n	1:1:1:1:1:1		
Rated Current base	$\Delta T = 40K$	I _{R base}	1.91	Α	typ.
Saturation Current base	IΔL/LI < 10%	I _{sat base}	1.17	Α	typ.
DC Resistance base	@ 20°C	R _{DC} base	30	mΩ	max.
Voltage-µSecond base		∫Udt _{base}	65.6	μVs	max.
Leakage Inductance base	10 kHz/ 1 V	L _{s base}	0.18	μН	typ.
Insulation test voltage	3 mA/1 s	U _T	500	V (AC)	

- I) Inductance of a single winding
 Pated Current of a single winding
 Saturation Current of a single winding
 Saturation Current of a single winding when all windings are driven.
 If not all windings are current driven the Saturation current per winding is 6x Isati_{passe} / number of driven windings
 4) DC Resistance of a single winding

E General information:

It is recommended that the temperature of the part does not exceed +125°C under worst case conditions.

- •Storage Temperature: -40°C to +85°C
- •Operating Temperature: -40°C to +125°C
- •Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

				Projection ————————————————————————————————————
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions
4.1	2014-02-18	SSt	TBr	Max-Eyth-Str. 1 74638 Waldenburg
4.0	2013-06-14	SSt	TBr	Germany Tel. +49 (0) 79 42 945 - 0
3.0	2006-08-01	TBr	-	www.we-online.com eiSos@we-online.com
REV	DATE	BY	CHECKED	GIOGNOTIC GIIIIIC.COIII

WE-FLEX Flexible Transformer for DC/DC Converter

Order - No

DESCRIPTION

749196510 Size: EFD20



This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover With Elektronic Resides Genified & Co Kit or products are neither designed and control, transportation signal, designed personal reliability transportation in signal, designed personal reliability transportation signal, designed personal reliab

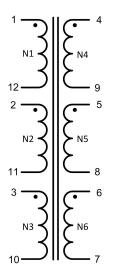




more than you expect

WÜRTH ELEKTRONIK

C Schematic:



				Projection ————————————————————————————————————		DESCRIPTION WE-FLEX Flexit	ole Transformer for DC	:/DC
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG	Converter		
4.1	2014-02-18	SSt	TBr	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
4.0	2013-06-14	SSt	TBr	Germany Tel. +49 (0) 79 42 945 - 0		740400540	ROHS&REACH	OILL
3.0	2006-08-01	TBr	-	www.we-online.com eiSos@we-online.com		749196510	TOTAL ELEKTRONIA	A4
REV	DATE	BY	CHECKED	CIOCOSSITC GIIIIIC.COIII		Size: EFD20		

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability advantance is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wilm Elektronic ReSis Grinth & Co. KG products are neither designed not intended for use in areas such as millarly, anoregazes, available, nuclear corrivol, sharings, in a second or performance or performance in a second or performance in a se



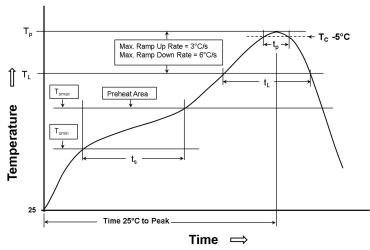
Datasheet of 749196510 - TRANSFORMER 9.9UH 1.91A SMD

more than you expect

H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat - Temperature Min (T _{Smin}) - Temperature Max (T _{Smax}) - Time (t _S) from (T _{Smin} to T _{Smax})	150°C 200°C 60-120 seconds
Ramp-up rate (T _L to T _P)	3°C/ second max.
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217°C 60-150 seconds
Peak package body temperature (Tp)	See Table H3
Time within 5°C of actual peak temperature (tp)	20-30 seconds
Ramp-down rate (T _P to T _L)	6°C/ second max.
Time 25°C to peak temperature	8 minutes max.

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm³ <350	Volume mm ³ 350 - 2000	Volume mm³ >2000
PB-Free Assembly	< 1.6 mm	260°C	260°C	260°C
PB-Free Assembly	1.6 - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly	≥ 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020D

				Projection ————————————————————————————————————		DESCRIPTION WE-FLEX Flexit	ole Transformer for DC	:/DC
				Würth Elektronik eiSos GmbH & EMC & Inductive Solutions	& Co. KG	Converter		
4.1	2014-02-18	SSt	TBr	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SI7F
4.0	2013-06-14	SSt	TBr	Germany Tel. +49 (0) 79 42 945 - 0		-40400-40	ROHS&REACH	OILL
3.0	2006-08-01	TBr	-	www.we-online.com eiSos@we-online.com		749196510		A4
REV	DATE	BY	CHECKED	elaus@we-uniine.com		Size: EFD20		

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use.

Notework With Elektronik elSos Orifish & Co KS products are neither designed or intended for use in a reas such as military, averageae, aution, uncleased or injury, averageae, aution, uncleased or information and about the intent of such usage before the description. See a failure of the parties in a failure of the parties in a failure of the parties in a failure or information and a failure or information an



Datasheet of 749196510 - TRANSFORMER 9.9UH 1.91A SMD

more than you expect

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-FLEX of Würth Elektronik eiSos GmbH & Co. KG:

All recommendations according to the general technical specifications of the data sheet have to be complied with.

The usage and operation of the product within ambient conditions, which probably alloy or harm the wire isolation, has to be avoided.

If the product is potted in customer applications, the potting material might shrink during and after hardening. The product is exposed to the pressure of the potting material with the effect that the core, wire and termination is possibly damaged by this pressure and so the electrical as well as the mechanical characteristics are endangered to be affected. After the potting material is cured, the core, wire and termination of the product have to be checked if any reduced electrical or mechanical functions or destructions have occurred.

The responsibility for the applicability of customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products do also apply to customer specific products.

Cleaning agents that are used to clean the customer application might damage or change the characteristics of the component, body, pins or

Direct mechanical impact to the product shall be prevented as the ferrite material of the core could flake or in the worst case it could break.

Product specific:

- Follow all instructions mentioned in the data sheet, especially:

 •The soldering profile has to be complied with according to the technical reflow soldering specification, otherwise this will void the warranty.

 - war largy.

 Wave soldering is not applicable. Reflow soldering is recommended.

 •All products shall be used before the end of the period of 12 months based on the product date code, if not a 100% solderability can't be
 - Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.

				Projection ————————————————————————————————————		DESCRIPTION WE-FLEX Flexil	ble Transformer for DC	:/DC
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG	Converter		
4.1	2014-02-18	SSt	TBr	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
4.0	2013-06-14	SSt	TBr	Germany Tel. +49 (0) 79 42 945 - 0		740400540	ROHS&REACH	OILL
3.0	2006-08-01	TBr	-	www.we-online.com eiSos@we-online.com		749196510	- ISAN ELEKTRONIA	A4
REV	DATE	BY	CHECKED	elous@wc-urillite.cum		Size: EFD20		

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wilm Elektronic Resides Genified X to XIS grounds are neither designed not intended for use in a reasonable, and a reliability standard in electronic experts, in a partie or intended to read a reliability standard in electronic specifically expected on experts and a reliability standard in electronic specifically governing such use. Moreover Wilm Elektronic Residual post and a reliability standard in electronic specifical post and reliability standard in electronic specifical post and reliability standard in electronic specifically governing such use. Moreover Wilm Elektronic specifical post and reliability standard in electronic specifically governing such use. Wilm Elektronic Residual post and reliability standard in electronic specifical post and reliability specifical post and reliability standard in electronic specifical post and reliability standard in electronic specifical post and reliability standard in electronic specifical post and reliability specifical post and reliability standard in electronic specifical post and reliability standard in electronic specifical post and reliability specifical post and reliab





Datasheet of 749196510 - TRANSFORMER 9.9UH 1.91A SMD

more than you expect

J Important Notes:

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications
It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications

In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component.

Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty,

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve spe cific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected



6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered.

The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights
All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG.

Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

				Projection		DESCRIPTION		
						WE-FLEX Flexible Transformer for D		DC
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG	Converter		
4.1	2014-02-18	SSt	TBr	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
4.0	2013-06-14	SSt	TBr	Germany Tel. +49 (0) 79 42 945 - 0		-40400-40	ROHS&REACH	OIZE
3.0	2006-08-01	TBr	-	www.we-online.com eiSos@we-online.com		749196510	- I SATA ELEKTRONIA	A4
REV	DATE	BY	CHECKED	elous@we-uniine.com		Size: EFD20		

ectronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially equiend or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use.

With Elektronik eSos Grint H. 26 DK KG products are neither designed nor intended for use in a reass such as military, aerospace, aviation, nuclear controls, the intended in a reasonable control, train control, shapper and in a reasonable control, train control, and in a reasonable control, and in a reasonable control, train control, and in a reasonable control, and in a reasonable control, train control, and in a reasonable control and in a reasonable control and in a reasonable control, and in a reasonable control, and in a reasonable control and in a reasonable control, and in a reasonable control and in a rea