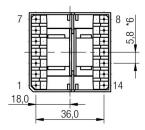
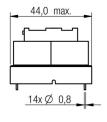
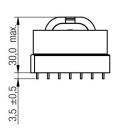
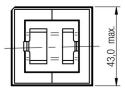
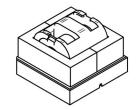
A Dimensions: [mm]





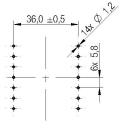






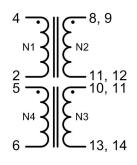
Scale - 1:2

B Recommended land pattern: [mm]



Scale - 1:2

C Schematic:





D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV	L	500	μН	±10%
Turns ratio		n	35:2:2:3		±3%
Saturation current	IΔL/LI < 20%	I _{sat}	3.5	А	typ.
DC Resistance 1	@ 20°C	R _{DC1}	145	mΩ	max.
DC Resistance 2	@ 20°C	R _{DC2}	2.5	$m\Omega$	max.
DC Resistance 3	@ 20°C	R _{DC3}	2.5	mΩ	max.
DC Resistance 4	@ 20°C	R _{DC4}	150	mΩ	max.
Leakage inductance	100 kHz/ 100 mV	LS	95	μΗ	±10%
Insulation test voltage	W1,4 => W2,3	U _T	4000	V (AC)	

E General information:

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

- •Storage Temperature: -20°C to 60°C
- •Operating Temperature: -40°C to 125°C
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

Designed to comply with the following requirements as defined by IEC61558-2-16; Reinforced insulation for a working voltage of 250 V_{RMS}

SIZE A4

				Projection ,		DESCRIPTION	
				- -1			
						WE-LLCR Resonant Conv	verter
				Würth Elektronik eiSos Gmb	H & Co. KG		
				EMC & Inductive Solutions Max-Eyth-Str. 1			
				74638 Waldenburg		Order No.	COMPLIAN
1.1	2014-04-01	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		700005004	ROHS&REACH
1.0	2013-07-22	SSt	WW	www.we-online.com eiSos@we-online.com		760895631	WOM THE ELECTRONIA
REV	DATE	BY	CHECKED	eloos@we-orilline.com		Size: ETD39	



D2 Application Properties:

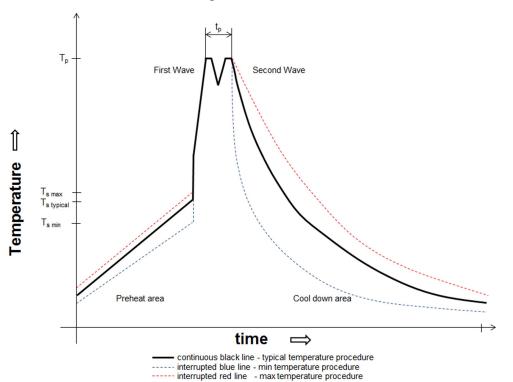
Properties		Value	Unit
Input voltage	U _i	360-400	V (DC)
Output voltage	U _O	12	V
Output current	Ι0	16.7	А
Auxiliary voltage	U _{aux}	18.0	V
Switching frequency	^f switch	70-120	kHz

				Projection ————————————————————————————————————		DESCRIPTION WE-LLCR Reso	nant Converter	
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG	WL-LLOII 11630	nant converter	
				- Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.1	2014-04-01	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		700005004	ROHS&REACH WÜRTH ELEKTRONIK	SIZL
1.0	2013-07-22	SSt	ww	www.we-online.com eiSos@we-online.com		760895631	2 II SAIN ELEKTRONIK	A4
REV	DATE	BY	CHECKED	CIOCOSSIVE OTHER CONT		Size: ETD39		

H Soldering Specifications:



H4: Classification Wave Soldering Profile:



H5: Classification Wave Profile

Profile Feature	Pb-Free Assembly	Sn-Pb Assembly
Preheat		
- Temperature Min (T _{smin})	100°C	100°C
- Temperature Typical (T _{stypical})	120°C	120°C
- Temperature Max (T _{smax})	130°C	130°C
- Time (t_{s}) from (T_{smin} to T_{smax})	70 seconds	70 seconds
Δ preheat to max Temperature	150°C max.	150°C max.
Peak temperature (T _p)	250°C - 260°C	235°C - 260°C
Time of actual peak temperature (t _n)	max. 10 seconds	max. 10 seconds
Ψ	max. 5 second each wave	max. 5 second each wave
Ramp-down rate		
- Min	~ 2 K/s	~ 2 K/s
- Typical	~ 3.5 K/s	~ 3.5 K/s
- Max	~ 5 K/s	~ 5 K/s
Time 25°C to 25°C	4 minutes	4 minutes

refer to EN 61760-1:2006

				Projection ,		DESCRIPTION		
						 WE-LLCR Reso	nant Converter	
				Würth Elektronik eiSos GmbH EMC & Inductive Solutions Max-Eyth-Str. 1	1 & Co. KG			
				74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.1	2014-04-01	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		700005004	ROHS&REACH	O.L.L
1.0	2013-07-22	SSt	ww	www.we-online.com eiSos@we-online.com		760895631		A4
REV	DATE	BY	CHECKED	CIOOSSWC OIIIIIE.COIII		Size: ETD39		

I Cautions and Warnings:

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

General:

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 termination.

Direct mechanical impact to the product shall be prevented as the core material could flake or in the worst case 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.
- •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 ensured.
- •Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.



				Projection -		DESCRIPTION		
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG	WE-LLCR Reso	nant Converter	
				Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.1	2014-04-01	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0		700005004	ROHS&REACH	O.L.L
1.0	2013-07-22	SSt	ww	www.we-online.com eiSos@we-online.com		760895631	I I I I I I I I I I I I I I I I I I I	A4
REV	DATE	BY	CHECKED	GIOOSSWC OHIIIIC.COH		Size: ETD39		

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 specific 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-LLCR Reso	nant Converter	
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG			
				- Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	
1.1	2014-04-01	SSt	SSt	Germany Tel. +49 (0) 79 42 945 - 0			ROHS&REACH	SIZE
1.0	2013-07-22	SSt	ww	www.we-online.com eiSos@we-online.com		760895631	WÜRTH ELEKTRONIK	A4
REV	DATE	BY	CHECKED	GIOOSSWC OHIIIIC.COH		Size: ETD39		

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F-242U F-245U F-264U F-265U F-267U F-281U F-283U F-290X F-295Z F-296Z F-298Z F-3143P F-3298Z F-33U F-346X F-35U F364U F-392A F-395X F-397U F-412X F-47U F-55X-1 F-60U F-68U F-71U F-72Z F-74U F-83A F-84AC F-85U F-86U F-9U PCT-02