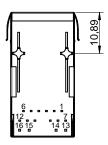
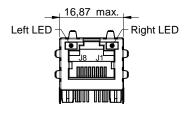
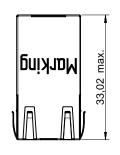
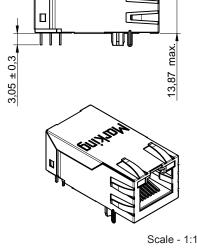
Dimensions: [mm]







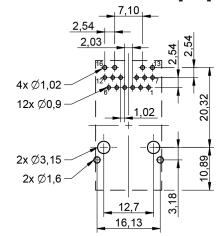


unless otherwise defined tolerance: $xx \pm 0.25$ mm

Product Marking:

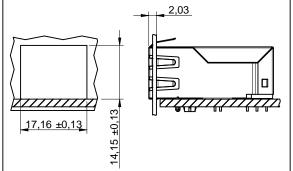
Marking	7499611421
Marking - Date Code	YYWW

Recommended Land Pattern: [mm]



unless otherwise defined tolerance: $xx \pm 0.05$ mm

Recommended Panel Cutout: [mm]



Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV @ 8 mA	L	120	μΗ	min.
Insulation Test Voltage	60 sec.	U _T	2250	V (DC)	
Insertion Loss	1-250 MHz	IL	-1.5	dB	max.
Insertion Loss	250-500 MHz	IL	-3	dB	max.
Return Loss	1-40 MHz	RL	-18	dB	min.
Return Loss	40-100 MHz	RL	-14	dB	min.
Return Loss	turn Loss 250-500 MHz osstalk 1-100 MHz		-11	dB	min.
Return Loss			-8	dB	min.
Crosstalk			-30	dB	min.
Crosstalk			-20	dB	min.
Common Mode Rejection Ratio	1-100 MHz	CMRR	-28	dB	min.
Common Mode Rejection Ratio	100-250 MHz	CMRR -22 dB		dB	min.
Common Mode Rejection Ratio	250-500 MHz	CMRR	-20	dB	min.

General Information:

It is recommended that the temperature of the component does not exceed $+85^{\circ}\text{C}$ under worst case conditions

Operating Temperature	0 °C up to +70 °C			
Storage Temperature (in original packaging)	-20 °C up to +60 °C			
Mating Cycle	750			
Moisture Sensitive Level	MSL 1			

Test conditions of Electrical Properties: +20°C, 33% RH if not specified differently

Compliant with IEEE 802.3an

	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CR SS
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	74638 Waldenburg Germany		V
	Tel. +49 (0) 79 42 945 - 0	0	
	www.we-online.com eiSos@we-online.com		
		WÜRTH ELEKTRONÏK	

CREATED CHECKED GENERAL TOLERANCE DIIN ISO 2768-1m

WE-RJ45 10G Transformer

STATUS

Draft

REVISION

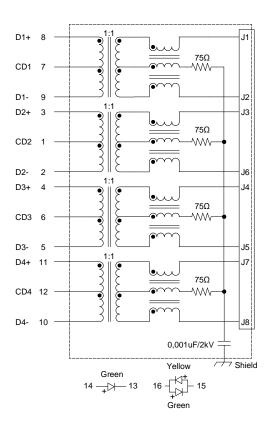
001.000

ORDER CODE
7499611421

DATE (YYY-MM-DD)
2015-11-10

BUSINESS UNIT
PRIGE
elSos
1/5

Schematic:



Certification:

Properties	Standard	File			
UL/ cUL	UL-60950	E331896			

LED Electrical & Optical Properties:

Dronartica	Test conditions		Value			
Properties	Test conditions		min.	max.	Unit	
Forward Voltage	tage 20 mA		1.8	2.4	V	
LED (Left-Right)	yellow/green-green					

GENERAL TOLERANCE CREATED CHECKED Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions SSt MLe DIN ISO 2768-1m Max-Eyth-Str. 1 74638 Waldenburg **WE-RJ45 10G Transformer** Tel. +49 (0) 79 42 945 - 0 ORDER CODE www.we-online.com 7499611421 eiSos@we-online.com DATE (YYYY-MM-DD) BUSINESS UNIT REVISION STATUS PAGE 001.000 2/5 Draft 2015-11-10 eiSos **WÜRTH ELEKTRONĪK**

Classification Wave Soldering Profile:



Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly		
Preheat Temperature Min	T _{s min}	100 °C	100 °C		
Preheat Temperature Typical	T _{s typical}	120 °C	120 °C		
Preheat Temperature Max	T _{s max}	130 °C	130 °C		
Preheat Time t_s from $T_{s min}$ to $T_{s max}$	t _s	70 seconds	70 seconds		
Ramp-up Rate △ T		150 °C max.	150 °C max.		
Peak temperature T _p		250 °C - 260 °C	235 °C - 260 °C		
Time of actual peak temperature	t _p	max. 10 seconds max. 5 seconds each wave	max. 10 seconds max. 5 seconds each wave		
Ramp-down Rate, Min		~ 2 K/ second	~ 2 K/ second		
Ramp-down Rate, Typical		~ 3.5 K/ second	~ 3.5 K/ second		
Ramp-down Rate, Max		~ 5 K/ second	~ 5 K/ second		
Time 25°C to 25°C		4 minutes	4 minutes		

refer to EN61760-1:2006

GENERAL TOLERANCE PROJECTION METHOD CREATED CHECKED Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions SSt MLe DIN ISO 2768-1m Max-Eyth-Str. 1 74638 Waldenburg **WE-RJ45 10G Transformer** Tel. +49 (0) 79 42 945 - 0 ORDER CODE www.we-online.com 7499611421 eiSos@we-online.com DATE (YYYY-MM-DD) BUSINESS UNIT REVISION STATUS PAGE 001.000 Draft 3/5 2015-11-10 eiSos **WÜRTH ELEKTRONĪK**

Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-RJ45LAN 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 disposal 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. Accordingly to this 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 endanger 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 for customer specific products.

Cleaning agents that are used to clean 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 ferrite material of the core could flake or in the worst case it could break.

Product specific:

Follow all instructions mentioned in the datasheet, especially:

- The solder profile has to be complied with according to the technical wave soldering specification, otherwise no warranty will be sustained.
- Reflow soldering is not applicable. Wave 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 ensured
- Violation of the technical product specifications such as exceeding the nominal rated current will result in the loss of warranty.

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CREATED SSt	CHECKED MLe		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	WE-RJ45 10G Transformer								
101. 140 (0) 75 42 540 0						ORDER CODE			
www.we-online.com eiSos@we-online.com						74996	11421		
			REVISION	STATUS		DATE (YYYY-MM-DD))	BUSINESS UNIT	PAGE
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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 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.



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