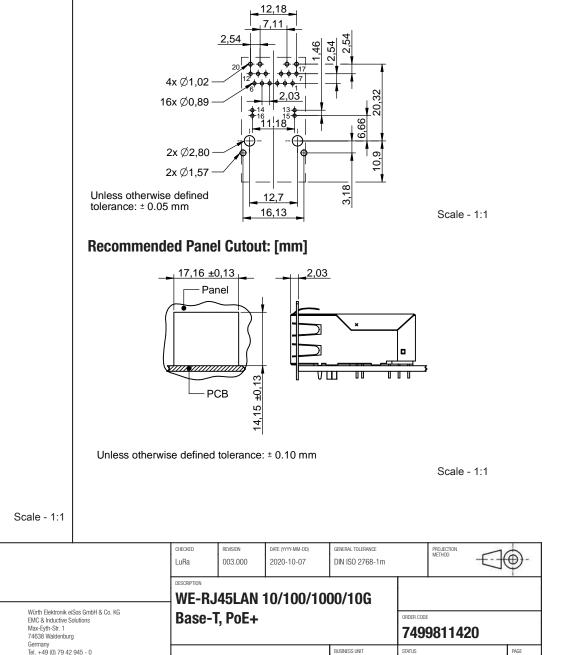


Product Marking:

Marking	7499811420
Marking - Date Code	YYWW

Recommended Hole Pattern: [mm]



eiSos

Valid

1/6

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 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 Wurth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in efficially governing such use, interview of use as even executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be information interview of acus severe personal injury or death, unless the parties have executed an agreement specifically governing such use, interview of issue and reliability transmotation (automotive control, transportation signal, disaster prevention, medical, public information network etc... Wurth Elektronik elSos GmbH & Co KG must be information entrol, submarine, transportation signal, disaster prevention, medical, public information network etc... Wurth Elektronic component which is used in efficient certaical acus that require high asteriated acus that require high ast

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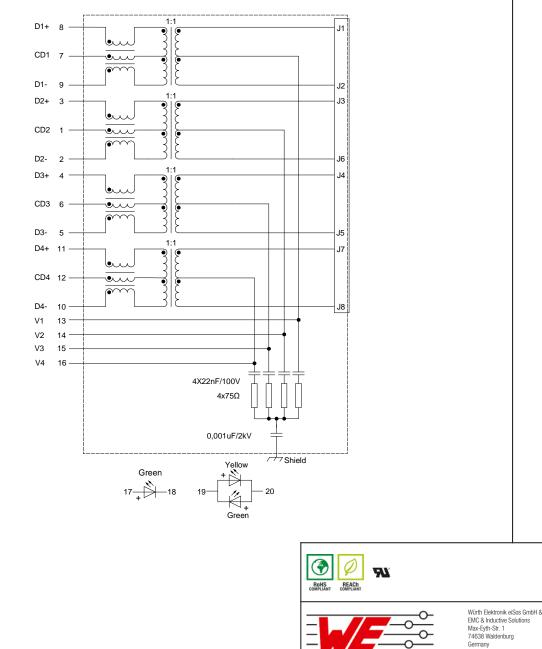
RoHS

REACh

Π.

WÜRTH ELEKTRONIK

Schematic:



CHECKED REVISION DATE (YYYY-MM-DD) GENERAL TOLERANCE PROJECTION METHOD LuRa 003.000 2020-10-07 DIN ISO 2768-1m DESCRIPTION WE-RJ45LAN 10/100/1000/10G Würth Elektronik eiSos GmbH & Co. KG Base-T, PoE+ ORDER CODE 7499811420 Tel. +49 (0) 79 42 945 - 0 www.we-online.com STATUS BUSINESS UNIT PAGE WÜRTH ELEKTRONIK 2/6 eiSos Valid eiSos@we-online.com

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 and rel

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	100 kHz/ 100 mV @ 18 mA	120	μH	min.
Insulation Test Voltage	V _T	1 min.	2250	V (DC)	
Insertion Loss	IL	1-250 MHz	-1.5	dB	max.
Insertion Loss	IL	250-400 MHz	-2.5	dB	max.
Return Loss	RL	1-40 MHz	-18	dB	min.
Return Loss	RL	40-100 MHz	-14	dB	min.
Return Loss	RL	100-250 MHz	-11	dB	min.
Return Loss	RL	250-500 MHz	-8	dB	min.
Crosstalk	CT	1-100 MHz	-30	dB	min.
Crosstalk	CT	100-500 MHz	-18	dB	min.
Common Mode Rejection Ratio	CMRR	1-100 MHz	-28	dB	min.
Common Mode Rejection Ratio	CMRR	100-250 MHz	-22	dB	min.
Common Mode Rejection Ratio	CMRR	250-500 MHz	-20	dB	min.
Turns Ratio	n		1:1		±3%
Data rate		1()G Base-T		
PoE		PoE+ ((up to 600 mA)		

General Information:

It is recommended that the temperature of the component does not exceed +85°C under worst case conditions					
Operating Temperature -40 up to +85 °C					
Storage Conditions (in original packaging)	< 40 °C;< 75 % RH				
Moisture Sensitivity Level (MSL)					
Mating Cycle	750				
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently					
Compliant with IEEE 802.3an and IEEE 802.3at (600 mA)					

LED Electrical & Optical Properties:

Properties		Test conditions	Va	lue	Unit		
riopernes			min.	max.			
Forward Voltage	V _F	20 mA	1.8	2.4	V		
LED (Left-Right)		yellow/green-green					

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
UL Approval	E472316 [UL-62368]

Material Properties:

Plastic Housing Material	Thermoplastic PBT Black
Plastic Housing Flammability Rating	UL94 V-0
Shielding Material	Brass
Shielding Plating	30µ" Nickel
Contact Material	Phosphor Bronze
Contact Plating	30µ" Gold over 50µ" Nickel

ROHS REACH COMPLIANT COMPLIANT		CHECKED LuRa	REVISION 003.000	DATE (YYYY-MM-DD) 2020-10-07	GENERAL TOLERANCE DIN ISO 2768-1m	PI	ROJECTION AETHOD	_ -
		DESCRIPTION	45LAN	10/100/10				
	- Max-Eyth-Str. 1 74638 Waldenburg		Г, РоЕ+		_	ORDER CODE	811420	_
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				BUSINESS UNIT eiSos	status Valid		PAGE 3/6

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 not authorized for use in 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 Würth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in the require injury are deathing information. Functional control, train cont

Classification Wave Soldering Profile:



---- max temperature procedure

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	ΔT	150 °C max.	150 °C max.
Peak Temperature	Т _р	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	tp	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

		CHECKED LuRa	REVISION 003.000	DATE (YYYY-MM-DD) 2020-10-07	GENERAL TOLERANCE DIN ISO 2768-1m	PN		
Wirth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max.Eyth-Str. 1 74638 Waldenburg		DESCRIPTION	45LAN	10/100/10	00/10G			
		Base-T, PoE+					811420	
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				BUSINESS UNIT eiSos	status Valid		PAGE 4/6

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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.

		CHECKED LuRa	REVISION 003.000	DATE (YYYY-MM-DD) 2020-10-07	general tolerance DIN ISO 2768-1m		PROJECTION METHOD	\square	● -
RothS COMPLIANT COMPLIANT		WE-RJ45LAN 10/100/1000/10G							
	Mont releasion elsos entren a con ka EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Base-1	ſ, PoE+			ORDER CODE	9811420	D	
	Fil. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				BUSINESS UNIT eiSos	status Valid		1	PAGE 5/6

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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.

			CHECKED LuRa	REVISION 003.000	DATE (YYYY-MM-DD) 2020-10-07	GENERAL TOLERANCE DIN ISO 2768-1m	-	PROJECTION METHOD	_ -	
	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74538 Waldenburg		WE-RJ45LAN 10/100/1000/10G							
			Base-1	, РоЕ +			ORDER CODE	9811420		
		Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com				BUSINESS UNIT eiSos	status Valid		PAGE 6/6	

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