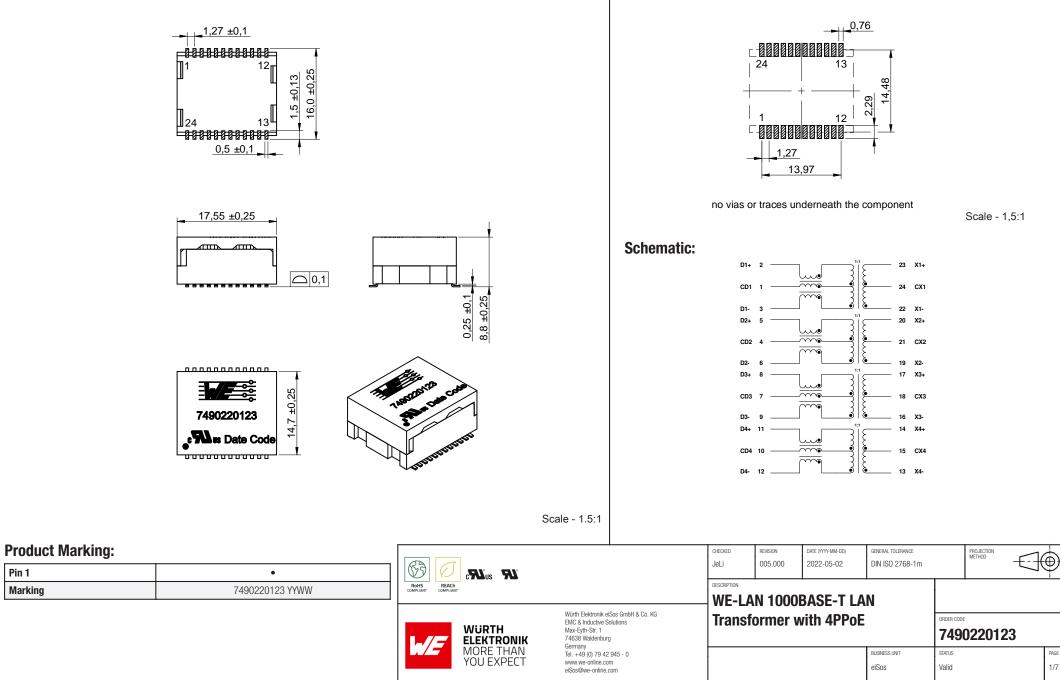
Dimensions: [mm]

Pin 1

Marking



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Recommended Land Pattern: [mm]

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	100 kHz/ 100 mV @ 35 mA	180	μH	min.
DC Resistance	R _{DC}	100 kHz / 100 mV (Pins 13-24)	500	mΩ	max.
Insertion Loss	IL	1-100 MHz	-1	dB	max.
Return Loss	RL	1-30 MHz @ 100 Ω	-16	dB	min.
Return Loss	RL	30-60 MHz @ 100 Ω	-13.5	dB	min.
Return Loss	RL	60-80 MHz @ 100 Ω	-12	dB	min.
Return Loss	ial to Common Mode		dB	min.	
Differential to Common Mode Rejection Ratio	DCMR	1-30 MHz	-40	dB	min.
Differential to Common Mode Rejection Ratio	DCMR	30-60 MHz	-35	dB	min.
Differential to Common Mode Rejection Ratio	DCMR	60-100 MHz	-30	dB	min.
Common Mode Rejection Ratio	CMRR	1-30 MHz	-40	dB	min.
Common Mode Rejection Ratio	CMRR	30-60 MHz	-35	dB	min.
Common Mode Rejection Ratio	CMRR	60-100 MHz	-30	dB	min.
Crosstalk	alk CT 1-60 MHz -35 c		dB	min.	
Crosstalk	CT	60-100 MHz	-30	dB	min.
Insulation Test Voltage	V _T	1 min.	1500	V (RMS)	min.

Power over Ethernet Properties:

Designed to support applications up to 1500 mA per centre tap. (Only pins 13-24)	
Compliant with IEEE 802.3bt for 4PPoE (up to 1500mA each center tap)	

Certification:

Compliant [2011/65/EU&2015/863]					
REACh Approval Conform or declared [(EC)1907/2006]					
AZOT2.E472316 [UL-62368]					
AZOT8.E472316 [UL-62368]					

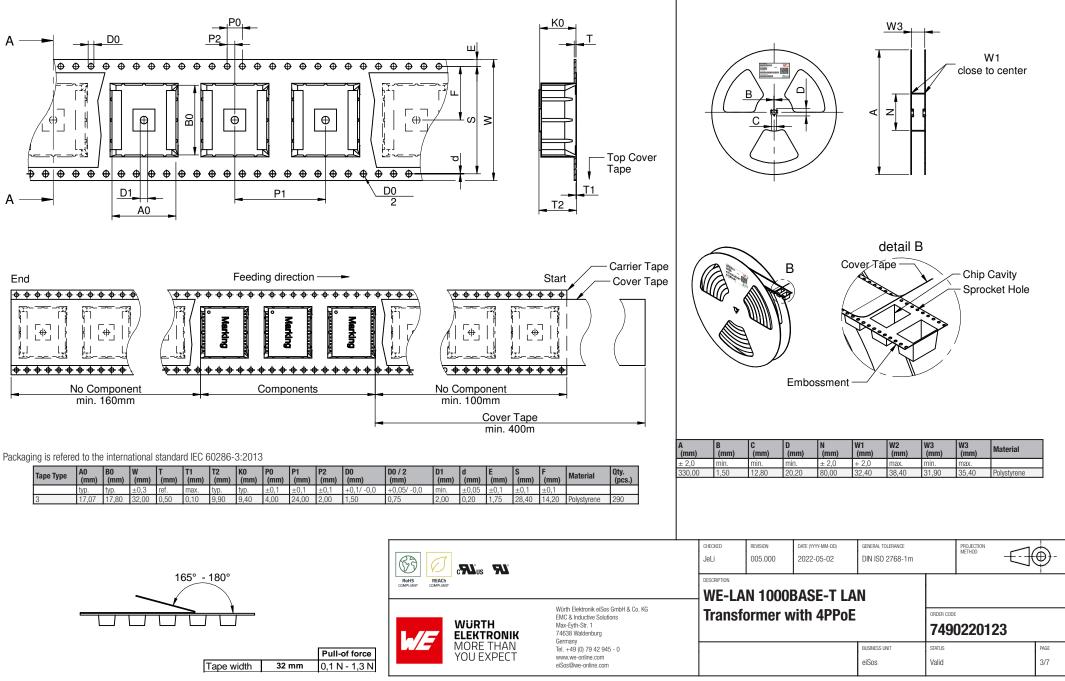
General Information:

Operating Temperature	-40 up to +105 °C				
Storage Conditions (in original packaging)	< 40 °C;< 75 % RH				
Moisture Sensitivity Level (MSL)	1				
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently					

	RoHS, COMPLANT REACH ROHS, WURTH WURTH Elektronik elSos GmbH & Co. KG EKCRETHER WURTH ELEKTRONIK Max-Eyh-Shr. 1 74638 Waldenburg Complexity		JeLi 005.000 2022-05-02			general tolerance DIN ISO 2768-1m		PROJECTION METHOD	_ -	
			WE-LAN 1000BASE-T LAN					-		
			EMC & Inductive Solutions Max-Eyth-Str. 1	Transformer with 4PPoE					ORDER CODE 7490220123	
		MORE THAN YOU EXPECT	einany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				BUSINESS UNIT eiSos	status Valid		PAGE 2/7

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 restriction. Quipment of were leactrical cruicity expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use, 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 and reliability reliability transportation signal, disaster prevention, medical, public information network etc... Wurth 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 high area reliability evaluation checks for safety must be performed on every electronic component which is used in the reliability of reliability standard and reliability standard and

Packaging Specification - Tape and Reel: [mm]



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Tolerance Value Packaging Specification - Outer Carton: [mm]

о Н

С

Qty. (pcs.)

> PROJECTION METHOD

7490220123

ORDER CODE

STATUS

Valid

Material

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Paper

				h/c L/C	Э Ц Ц					
L _{IC} (mm)	W _{IC} (mm)	H _{IC} (mm)	No. of Reel (pcs.)	Qty. (pcs.)	Material		L _C (mn	n) W _C (m	nm) H _C (mm)	No. of Inner Carton (pcs.
typ. 345	typ. 345	typ. 45	1	290	Paper	Tolerano Value	ce typ. 400	typ. 370	typ. 370	8
			ROHS REACH COMPLIANT COMPLIANT	CRUIS RU WURTH ELEKTRONIK MORE THAN YOU EXPECT	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com				DATE (YYYY-MM-DD) 2022-05-02 DBASE-T L with 4PPo	
					eiSos@we-online.com					0.000

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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	T _{s min}	150 °C
Preheat Temperature Max	T _{s max}	200 °C
Preheat Time $\rm t_s$ from $\rm T_{smin}$ to $\rm T_{smax}$	t _s	60 - 120 seconds
Ramp-up Rate (T _L to T _P)		3 °C/ second max.
Liquidous Temperature	TL	217 °C
Time t_L maintained above T_L	tL	60 - 150 seconds
Peak package body temperature	Т _р	$T_p \le T_c$, see Table below
Time within 5°C of actual peak temperature	t _p	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-020E

Package Classification Reflow Temperature (T_c):

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

refer to IPC/ JEDEC J-STD-020E

	Würth Bektronik elSos GmbH & Co. KG EMC & Inductive Solutions WÜRTH Max-Eyth-Str. 1 ELEKTRONIK 74638 Waldenburg		CHECKED REVISION DATE (YYYY-MM-DD) GENERAL TOLERANCE JeLi 005.000 2022-05-02 DIN ISO 2768-1m				PROJECTION METHOD			€-
			WE-LAN 1000BASE-T LAN							
			Transformer with 4PPoE				ORDER CODE 7490220123			
	MORE THAN YOU EXPECT	Germany Tel., +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				BUSINESS UNIT eiSos	status Valid		1	page 5/7

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Cautions and Warnings:

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

General:

- This electronic component is designed and developed with the intention for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any
 equipment in fields such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control,
 ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are
 especially required and/or if there is the possibility of direct damage or human injury.
- · Electronic components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions
 specified in the datasheet are not met, the wire insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth
 Elektronik does not guarantee any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and
 sustainability over time.
- The customer is responsible for the functionality of their own products. All technical specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.
- Strong forces which may affect the coplanarity of the components' electrical connection with the PCB (i.e. pins), can damage the part, resulting in a void of the warranty.

Cleaning and Washing:

- Washing agents used during the production to clean the customer application might damage or change the characteristics of the wire
 insulation, marking or plating. Washing agents may have a negative effect on the long-term functionality of the product.
- Using a brush during the cleaning process could break the wire due to its small diameter. Therefore, we do not recommend using a brush during the PCB cleaning process.

Potting:

If the product is potted in the costumer application, the potting material might shrink or expand during and after hardening. Shrinking
could lead to an incomplete seal, allowing contaminants into the core. Expansion could damage the components. We recommend a
manual inspection after potting to avoid these effects.

Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- · Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

Packaging:

 The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

Handling:

- Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.
- Applying currents with audio-frequency signals might result in audible noise due to the magnetostrictive material properties.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component. The operating temperature of the component shall not exceed the maximum temperature specified.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.

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		WE-LAN 1000BASE-T LAN								
	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Transformer with 4PPoE					ORDER CODE 7490220123			
MORE THAN YOU EXPECT	URE I HAN Tel. +49 (0) 79 42 945 - 0				BUSINESS UNIT eiSos	status Valid		1	PAGE 6/7	

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