

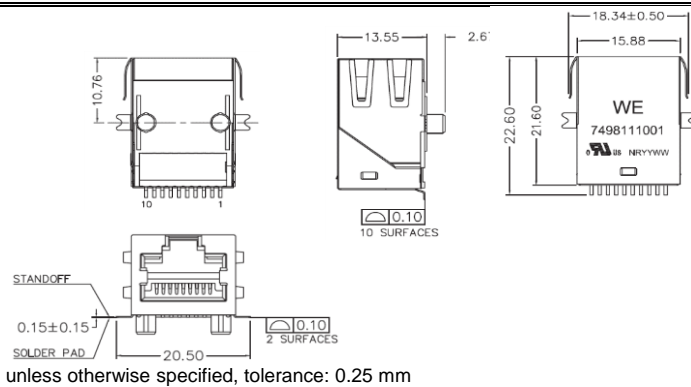
# Spezifikation für Freigabe / specification for release

Kunde / customer :  
 Artikelnummer / part number : **7498111001**  
 Bezeichnung : **LAN-Übertrager WE-RJ45LAN 1000Base-T**  
 description : **LAN-Transformer WE-RJ45LAN 1000Base-T**

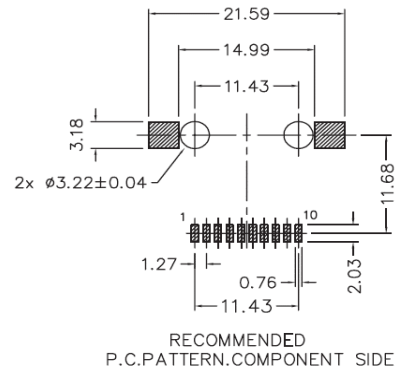


DATUM / DATE : 2016-06-10

## A Mechanische Abmessungen / dimensions :



## B Lötpad / soldering spec. :



## C Elektrische Eigenschaften / electrical properties :

Eigenschaften / properties	Testbedingungen /		Wert / value	Einheit / unit	tol.
Induktivität / Inductance	<b>100kHz / 100mV @ 8mA DC-Bias</b>	OCL	<b>350</b>	$\mu$ H	min.
Übersetzungsverhältnis / Turns ratio	<b>100kHz / 100mV</b>	TR	<b>1 : 1</b>	Tx	<b>2%</b>
			<b>1 : 1</b>	Rx	
Insertion Loss	<b>1-100MHz</b>	IL	<b>-1.0</b>	dB	max.
Return Loss	<b>1-30MHz</b>	RL	<b>-18</b>	dB	min.
	<b>30-60MHz</b>		<b>-15</b>		
	<b>60-80MHz</b>		<b>-12</b>		
	<b>80-100MHz</b>		<b>-10</b>		
Common Mode Rejection	<b>1-30MHz</b>	CMR	<b>-35</b>	dB	min.
	<b>30-100MHz</b>		<b>-30</b>		
Crosstalk	<b>1-30MHz</b>	CT	<b>-37</b>	dB	min.
	<b>30-60MHz</b>		<b>-32</b>		
	<b>60-100MHz</b>		<b>-27</b>		

## D Prüfgeräte / test equipment :

Agilent 4395A Network Analyzer

## E Testbedingungen / test conditions :

Luftfeuchtigkeit / humidity: 33%  
 Umgebungstemperatur / temperature: +25°C

## F Werkstoffe & Zulassungen / material & approvals :

Basismaterial / base material: Ferrit/ ferrite  
 Draht / wire: QPN 180  
 Kontaktmaterial/ contact plating: 100% tin w. nickel underplating  
 30 $\mu$ gold plating on contact area  
 Gehäuse / housing: Thermoplastic UL-94V0  
 LED  
 Shield: 50 $\mu$  nickel over 0.01" cooper alloy

## G Eigenschaften / general specifications :

Betriebstemp. / operating temperature: -40°C - + 85°C  
 Hochspannungsprüfung / Hipot test: 1500Vrms 1min.  
 Geeignet für 10/100Base-TX gemäß IEEE 802.3u /  
 Compliant with IEEE 802.3u for 10/100Base-TX-Applications  
 Auto MDIX fähig / Auto MDIX capable  
 UL File: E331896

Freigabe erteilt / general release:	<b>Kunde / customer</b>		
.....	.....		
Datum / date	Unterschrift / signature		
	<b>Würth Elektronik</b>		
.....	.....	Mle	Revision 01 2016-06-10
Geprüft / checked	Kontrolliert / approved	MMai	Revision 00 2016-02-24
		Name	Änderung / modification Datum / date

### Würth Elektronik eiSos GmbH & Co.KG

D-74638 Waldenburg · Max-Eyth-Straße 1 - 3 · Germany · Telefon (+49) (0) 7942 - 945 - 0 · Telefax (+49) (0) 7942 - 945 - 400  
<http://www.we-online.com>

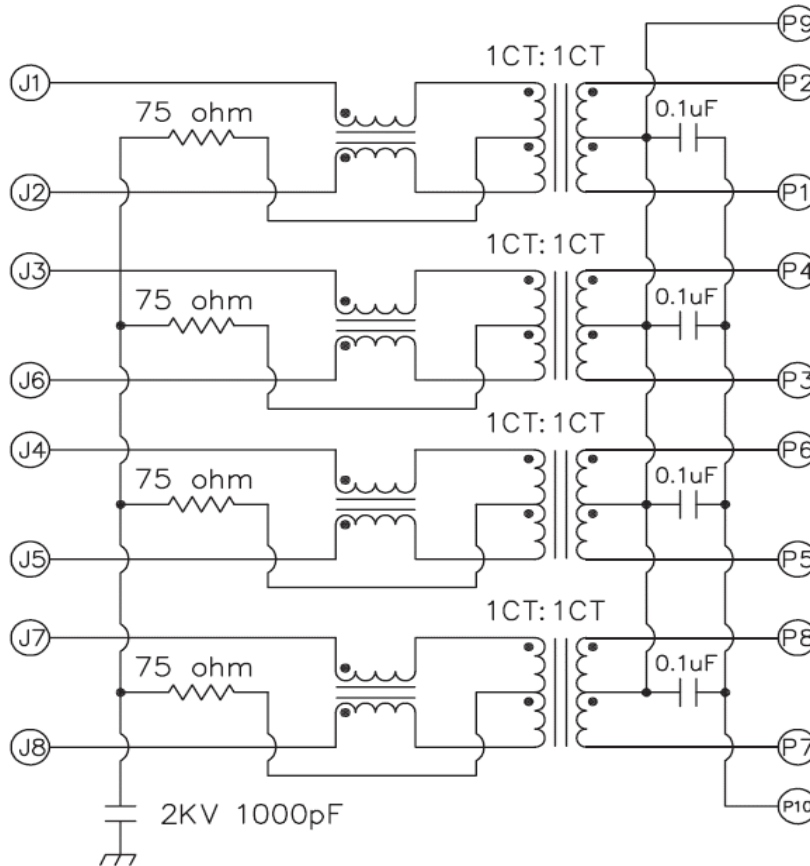
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## H Schaltbild / Schematics :



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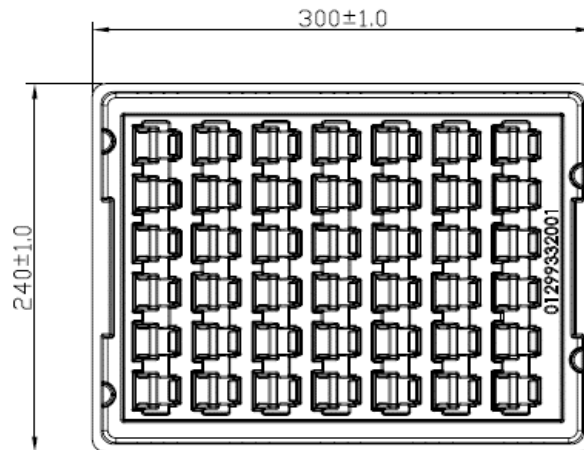
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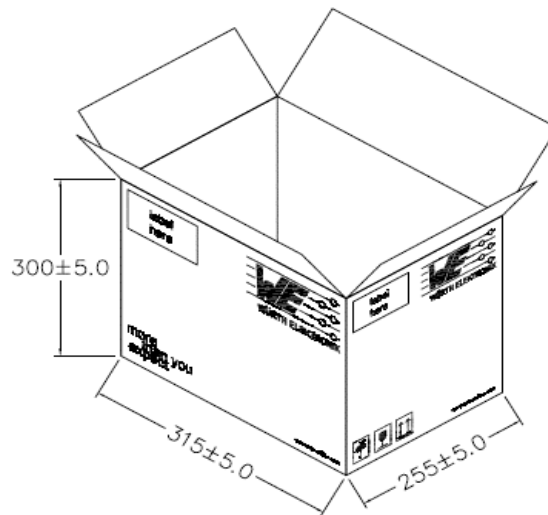
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## I Verpackungsspezifikation / package specification :

Tray:



Carton:



**Packing Quantity:**

tray= 42pcs  
 carton= 588pcs

dimensions in mm

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This electronic component has been designed and developed for usage in general electronic equipment. Before incorporating this component into any equipment where higher safety and reliability is especially required or if there is the possibility of direct damage or injury to human body, for example in the range of aero space, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc, Würth Elektronik eiSos GmbH must be informed before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

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