# Spezifikation für Freigabe / specification for release

Kunde / customer :
Artikelnummer / part number : **7499011121A**

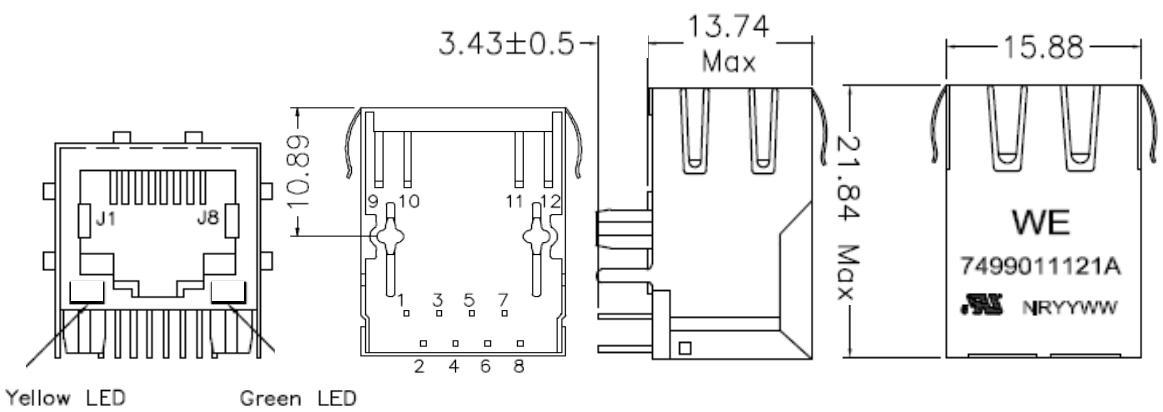
Bezeichnung : **LAN-Übertrager WE-RJ45LAN 10/100BaseT**
description : **LAN-Transformer WE-RJ45LAN 10/100BaseT**

compliant RoHS WÜRTH ELEKTRONIK

WÜRTH ELEKTRONIK

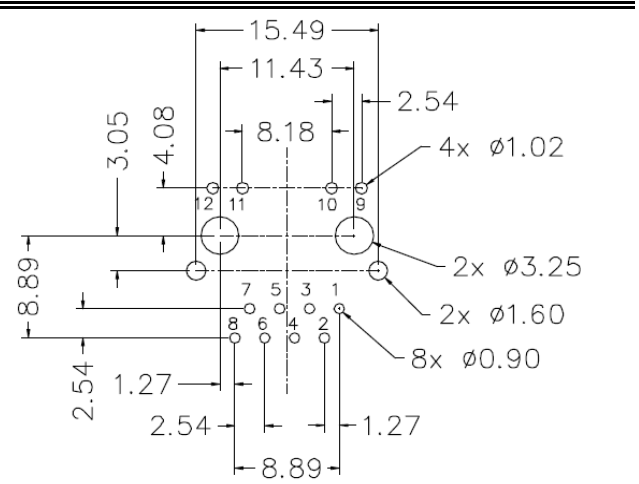
**DATUM / DATE : 2020-12-28**

## A Mechanische Abmessungen / dimensions :




dimensions in mm

## B Lötpad / soldering spec. :




RECOMMENDED
P.C.PATTERN.COMPONENT SIDE
All dimension tolerance are ±0.08 unless otherwise specified

## C Elektrische Eigenschaften / electrical properties :

| Eigenschaften / properties | Testbedingungen / test conditions | | Wert / value | Einheit / unit | tol. |
|---|---|---|---|---|---|
| Induktivität / Inductance | **100kHz / 100mV @ 8mA DC-Bias** | OCL | **350** | µH | **min.** |
| Übersetzungsverhältnis / Turns ratio | **100kHz / 100mV** | TR | **1 : 1** | Tx | **±2%** |
| | | | **1 : 1** | Rx | |
| Insertion Loss | **1-100MHz** | IL | **-1,0** | dB | **max.** |
| Return Loss | **1-10MHz @ 100Ω** | RL | **-18** | dB | **min.** |
| | **10-30MHz @ 100Ω** | | **-14** | | |
| | **30-60MHz @ 100Ω** | | **-12** | | |
| | **60-80MHz @ 100Ω** | | **-10** | | |
| Common Mode Rejection | **1-100MHz** | CMR | **-30** | dB | **min.** |
| Crosstalk | **1-100MHz** | CT | **-30** | dB | **min.** |

## D Prüfgeräte / test equipment :

**HP4395A**

## E Testbedingungen / test conditions :

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

## F Werkstoffe & Zulassungen / material & approvals :

| | |
|---|---|
| Basismaterial / base material: | Ferrit/ ferrite |
| Draht / wire: | UEW/Y 155°C |
| Kontaktmaterial/ contact plating: | 100% tin w. nickel underpalting<br>30µ"gold plating on contact area |
| Gehäuse / housing | Thermoplastic UL-94V0 |
| LED | 1,8-2,8 V/ 20mA |
| Shield | 50µ" nickel<br>over 0.01" copper alloy |

## G Eigenschaften / general specifications :

Betriebstemp. / operating temperature: -40°C - +85°C
Hochspannungsprüfung / Hipot test: 2250VDC 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: E472316

Freigabe erteilt / general release:

| **Kunde / customer** | **Würth Elektronik** |
|---|---|
| ..... | ..... |
| Datum / date | Unterschrift / signature |
| ..... | ..... |
| Geprüft / checked | Kontrolliert / approved |

| | | |
|---|---|---|
| | | |
| | | |
| | | |
| LuRa | Revision 04 | 2020-12-28 |
| Mle | Revision 03 | 2017-08-09 |
| JaB | Revision 02 | 2015-05-20 |
| Mle | Revision 01 | 2011-10-20 |
| KSC | Revision 00 | 2010-08-04 |
| Name | **Änderung / modification** | Datum / date |


**Würth Elektronik eiSos GmbH & Co.KG**

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http://www.we-online.com

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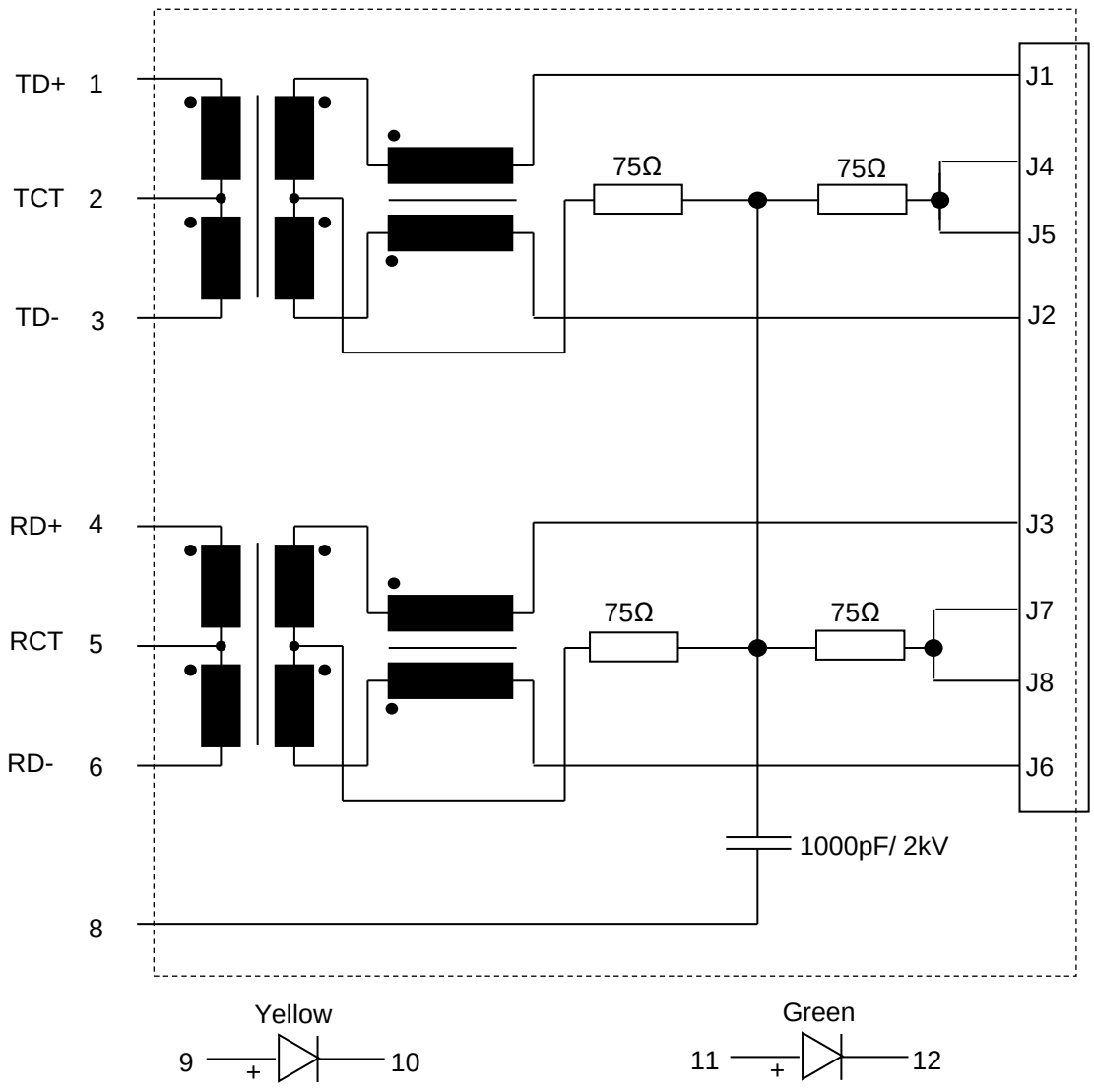
## H Schaltbild / Schematics :




| Freigabe erteilt / general release: | Kunde / customer | | | |
|---|---|---|---|---|
| | | | | |
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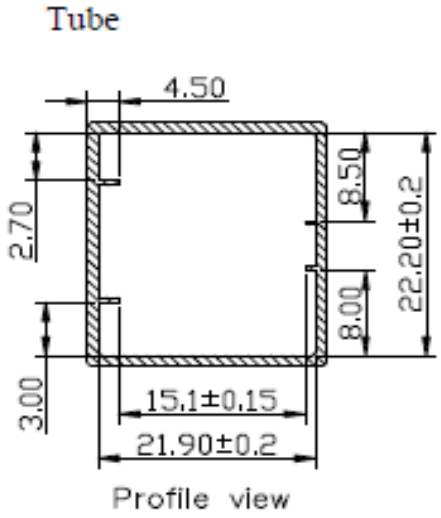
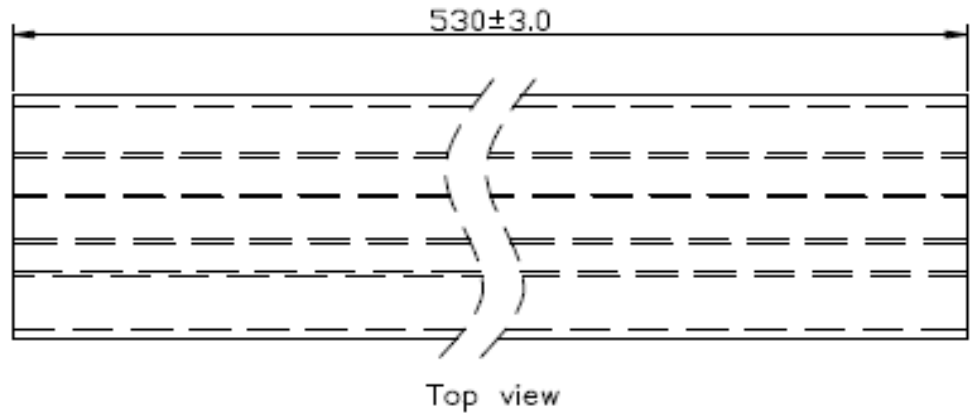
## I Verpackungsspezifikation / package specification :

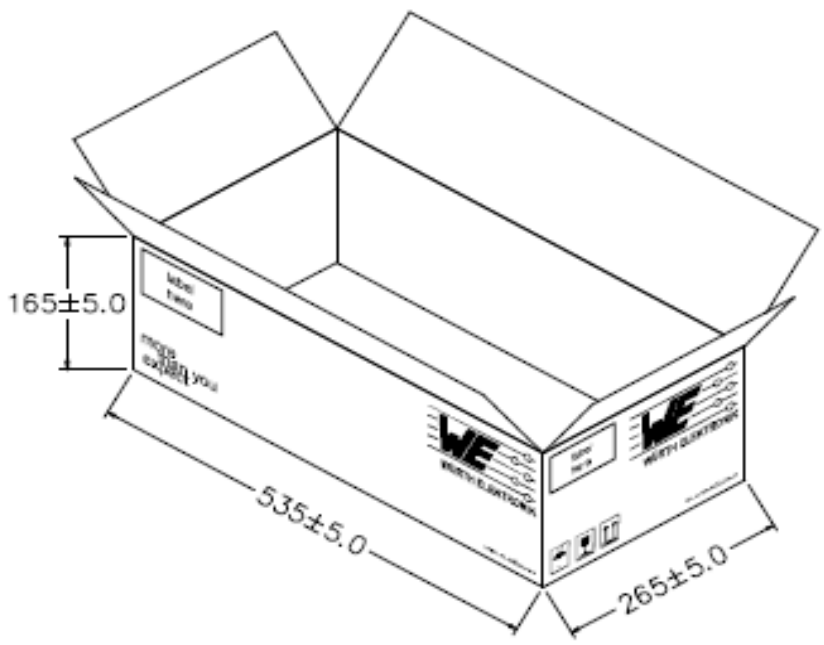
PACKAGING(Tube)

Tube




Carton




PACKAGING QUANTITY:

29pcs Finished Goods / Tube

60 Tube (1740pcs Finished Goods) / Carton

**dimensions in mm**

| Freigabe erteilt / general release: | **Kunde / customer** | | | |
|---|---|---|---|---|
| | | | | |
| | | | | |
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