

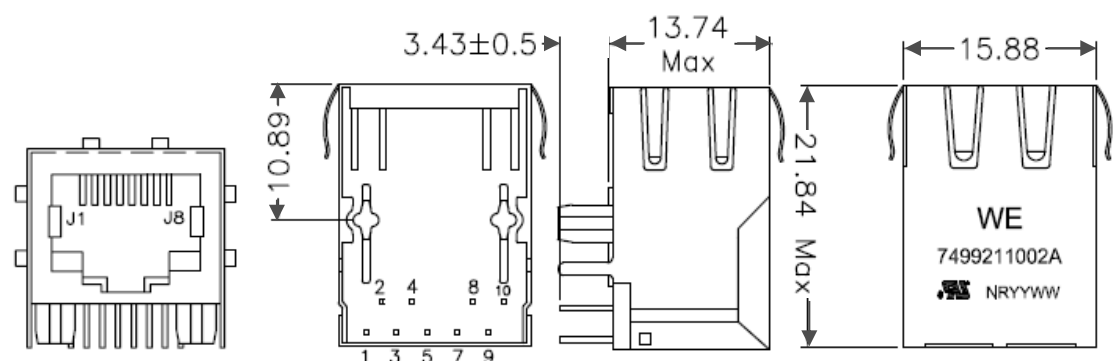
# Spezifikation für Freigabe / specification for release

Kunde / customer :  
Artikelnummer / part number : **7499211002A**  
Bezeichnung : **LAN-Übertrager WE-RJ45LAN 10/100BaseT PoE**  
description : **LAN-Transformer WE-RJ45LAN 10/100BaseT PoE**



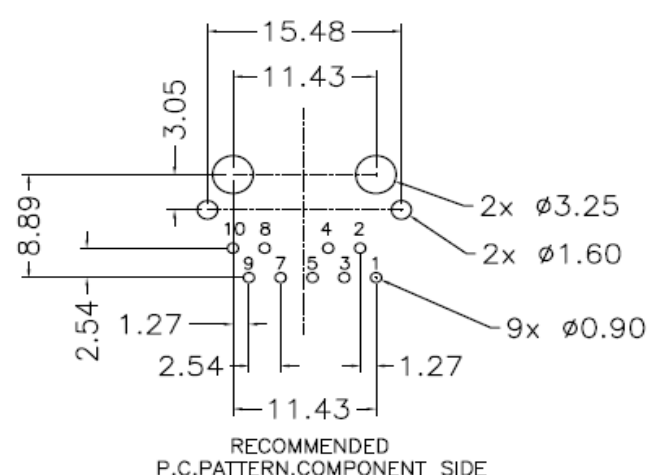
DATUM / DATE : 2013-04-25

## A Mechanische Abmessungen / dimensions :



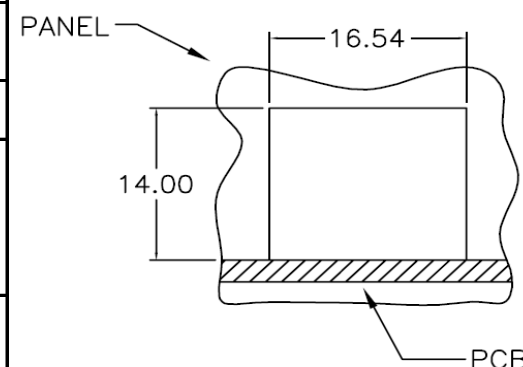
dimensions in mm

## B Lötpad / soldering spec. :



## C Elektrische Eigenschaften / electrical properties :

| Eigenschaften / properties           | Testbedingungen / test conditions |     | Wert / value | Einheit / unit | tol. |
|--------------------------------------|-----------------------------------|-----|--------------|----------------|------|
| Induktivität / Inductance            | 100kHz / 100mV @ 8mA<br>DC-Bias   | OCL | 350          | µH             | min. |
| Übersetzungsverhältnis / Turns ratio | 100kHz / 100mV                    | TR  | 1 : 1        | Tx             | 3%   |
|                                      |                                   |     | 1 : 1        | Rx             |      |
| Insertion Loss                       | 1-100MHz                          | IL  | -1,0         | dB             | max. |
| Return Loss                          | 1-10MHz @ 100Ω                    | RL  | -18          | dB             | min. |
|                                      | 10-30MHz @ 100Ω                   |     | -16          |                |      |
|                                      | 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: 4UEW 180°C  
Kontaktmaterial/ contact plating: 100% tin w. nickel underpalting  
30µ"gold plating on contact area  
Gehäuse / housing: Thermoplastic UL-94V0  
Shield: 50µ" nickel  
over 0.01" cooper alloy

## G Eigenschaften / general specifications :

Betriebstemp. / operating temperature: 0°C - + 70°C  
Hochspannungsprüfung / Hipot test: 1500Vrms 1min.  
Geeignet für 10/100Base-TX gemäß IEEE 802.3af /  
Compliant with IEEE 802.3af for 10/100Base-TX-Applications  
Auto MDIX fähig / Auto MDIX capable  
Lebensdauer 1000 Steckzyklen/ durability: 1000 mating cycles

Freigabe erteilt / general release:

Kunde / customer

Datum / date

Unterschrift / signature

Würth Elektronik

Geprüft / checked

Kontrolliert / approved

|      |                         |              |
|------|-------------------------|--------------|
|      |                         |              |
|      |                         |              |
|      |                         |              |
|      |                         |              |
| Mle  | Rev 02                  | 2013-04-25   |
| Mle  | Rev 01                  | 2013-03-19   |
| KSC  | Rev 00                  | 2009-07-23   |
| Name | Änderung / modification | Datum / date |

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

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<http://www.we-online.com>

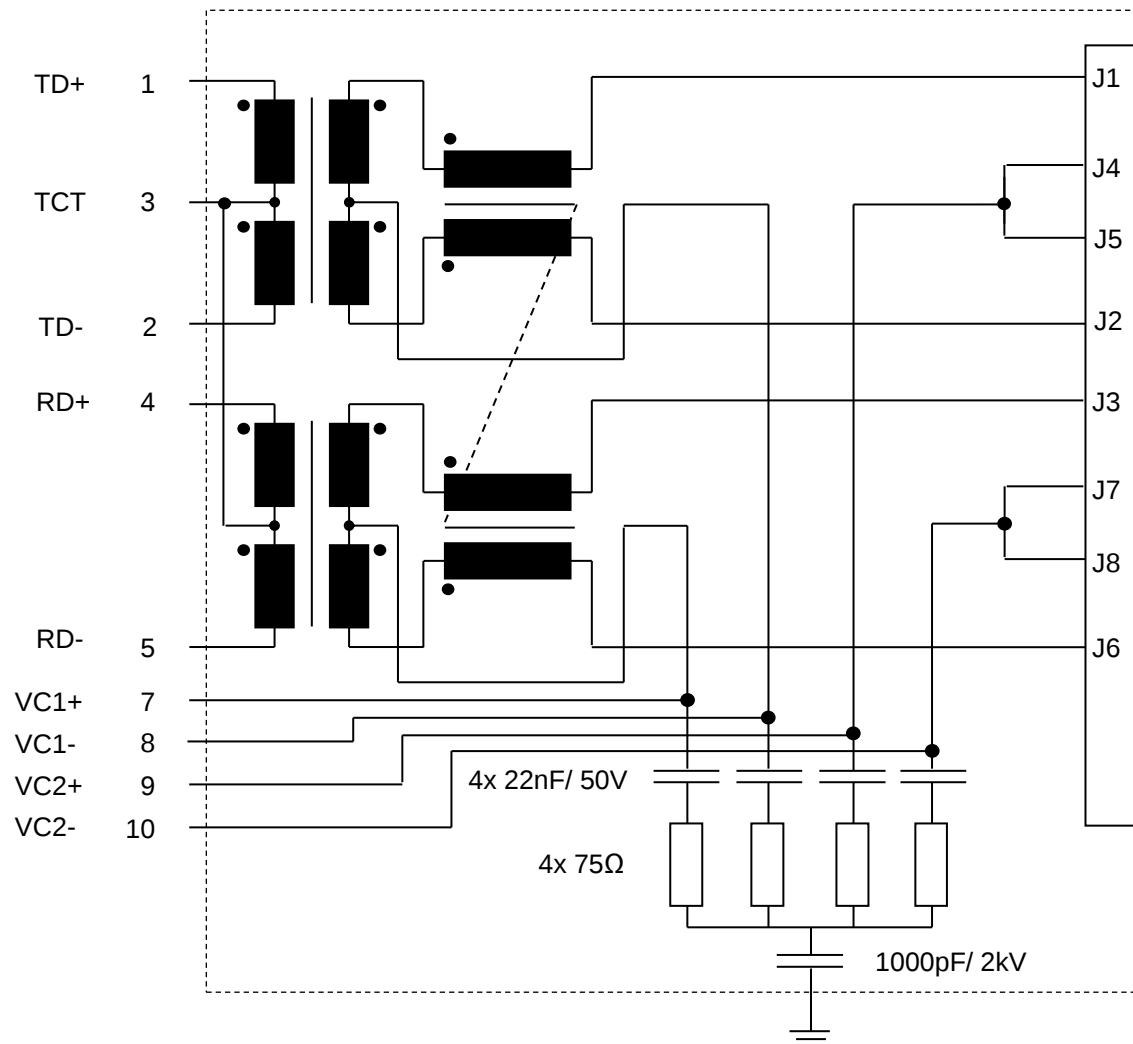
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## H Schaltbild / Schematics :



|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer         |      |                         |              |
|                                     |                          |      |                         |              |
| Datum / date                        | Unterschrift / signature |      |                         |              |
|                                     | Würth Elektronik         | Mle  | Rev 02                  | 2013-04-25   |
|                                     |                          | Mle  | Rev 01                  | 2013-03-19   |
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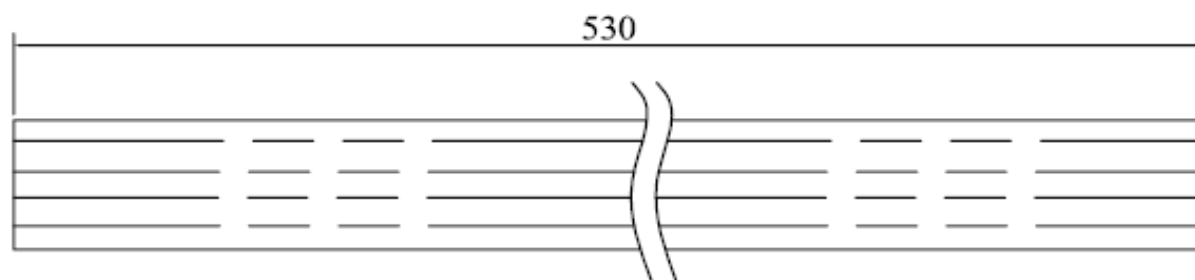
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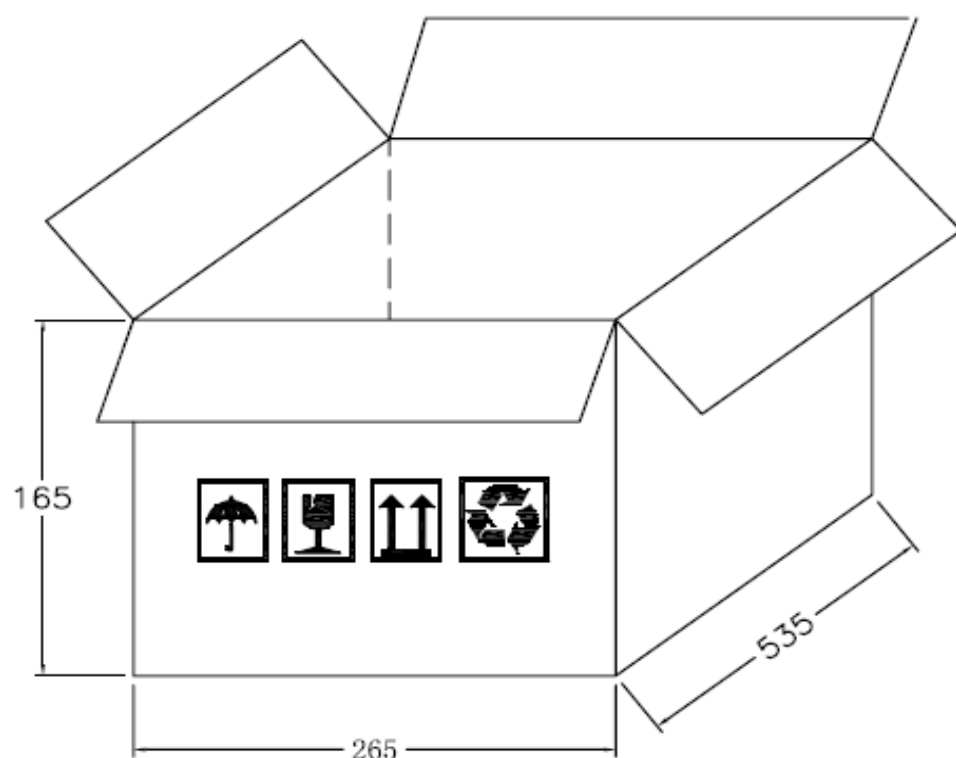
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Top view

Profile view



tube= 29pcs  
carton= 1740pcs

**dimensions in mm**

|                                     |  |                          |  |      |                                |              |
|-------------------------------------|--|--------------------------|--|------|--------------------------------|--------------|
| Freigabe erteilt / general release: |  | <b>Kunde / customer</b>  |  |      |                                |              |
|                                     |  |                          |  |      |                                |              |
|                                     |  |                          |  |      |                                |              |
| .....                               |  | .....                    |  |      |                                |              |
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|                                     |  |                          |  | Mle  | Rev 01                         | 2013-03-19   |
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| Geprüft / checked                   |  | Kontrolliert / approved  |  |      |                                |              |

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 aerospace, 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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