

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number : **7499010121A**

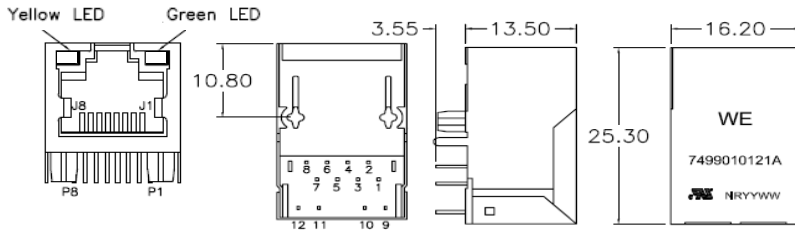
Bezeichnung : **LAN-Übertrager WE-RJ45LAN**

description : **LAN-Transformer WE-RJ45LAN**



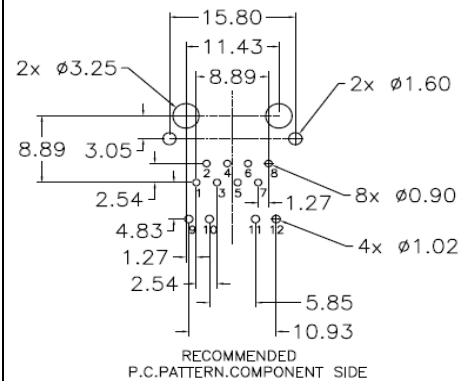
DATUM / DATE : 2013-04-29

## A Mechanische Abmessungen / dimensions :



Unless otherwise specified , Tolerance  $\pm 0.25$  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 DC-Bias      | OCL | 350          | $\mu$ H        | 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                          | 1-30MHz @ 100 $\Omega$            | RL  | -18          | dB             | min. |
|                                      | 30-45MHz @ 100 $\Omega$           |     | -16          |                |      |
|                                      | 45-60MHz @ 100 $\Omega$           |     | -12          |                |      |
|                                      | 60-80MHz @ 100 $\Omega$           |     | -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 155°C  
Kontaktmaterial/ contact plating: 100% tin w. nickel underpalting  
30 $\mu$ "gold plating on contact area  
Gehäuse / housing: Thermoplastic UL-94V0  
LED: 1,8-2,8 V/ 20mA  
Shield: 50 $\mu$ " 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 802.3u /  
Compliant with IEEE 802.3u for 10/100Base-TX-Applications  
Auto MDIX fähig / Auto MDIX capable

Freigabe erteilt / general release:

Kunde / customer

Datum / date

Unterschrift / signature

Würth Elektronik

Geprüft / checked

Kontrolliert / approved

|      |                         |              |
|------|-------------------------|--------------|
| Mle  | Revision 02             | 2013-04-29   |
| KSC  | Revision 01             | 2013-03-22   |
| KSC  | Revision 00             | 2009-07-27   |
| 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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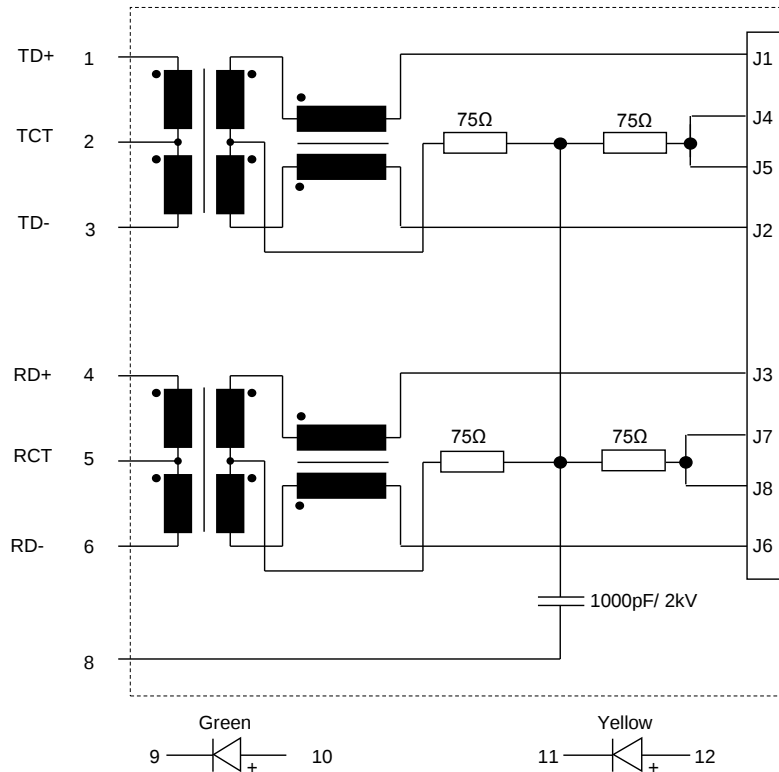
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## H Schaltbild / Schematics :



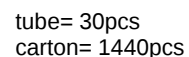
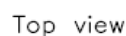
|                                     |                          |      |                         |              |
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| Freigabe erteilt / general release: | Kunde / customer         |      |                         |              |
|                                     |                          |      |                         |              |
|                                     |                          |      |                         |              |
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|                                     | Würth Elektronik         | Mle  | Revision 02             | 2013-04-29   |
|                                     |                          | KSC  | Revision 01             | 2013-03-22   |
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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, there is the possibility of direct damage to the human body, for example in the range of aerospace, aviation, nuclear control, submarine, transportation, (automobile 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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Direct      +86 (21) 6401-6692  
Email        amall@ameya360.com  
QQ            800077892  
Skype        ameyasales1 ameyasales2

➤ Customer Service :

Email        service@ameya360.com

➤ Partnership :

Tel            +86 (21) 64016692-8333  
Email        mkt@ameya360.com