

## Excellent Integrated System Limited

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[Wurth Electronics Inc](#)  
[7497111611A](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

## Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

**7497111611A**

Bezeichnung :

**LAN-Übertrager WE-RJ45LAN 10/100/1000 BaseT + USB**

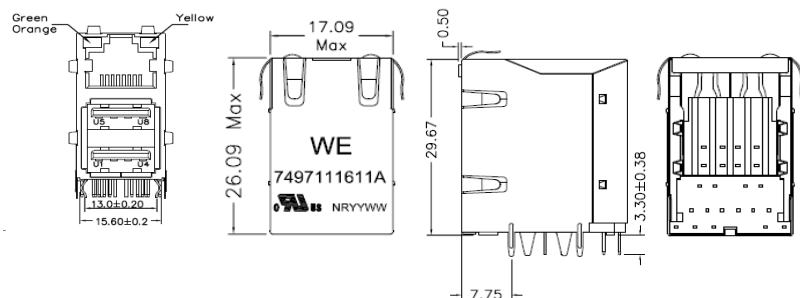
description :

**LAN-Transformer WE-RJ45LAN 10/100/1000 BaseT + USB**

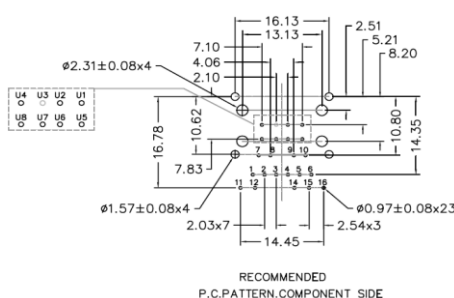


DATUM / DATE : 2015-09-18

### A Mechanische Abmessungen / dimensions :



### 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          | µH             | min. |
| Übersetzungsverhältnis / Turns ratio | 100kHz / 100mV                    | TR   | 1 : 1        |                | 3%   |
| Insertion Loss                       | 1-100MHz                          | IL   | -1,0         | dB             | max. |
| Return Loss                          | 1-30MHz @ 100Ω                    | RL   | -16          | dB             | min. |
|                                      | 30-60MHz @ 100Ω                   |      | -13,5        |                |      |
|                                      | 60-80MHz @ 100Ω                   |      | -12          |                |      |
|                                      | 80-100MHz @ 100Ω                  |      | -10          |                |      |
| Common Mode Rejection                | 1-100MHz                          | CCMR | -30          | dB             | min. |
|                                      | 100-200MHz                        |      | -15          |                |      |
| Crosstalk                            | 1-100MHz                          | CT   | -27          | 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 underplating  
 30µ"gold plating on contact area  
 Gehäuse / housing: Thermoplastic UL-94V0  
 LED: 1.8-2.8V/ 20mA  
 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 1000BaseT-Anwendungen gemäß IEEE 802.3ab /  
 Compliant with IEEE 802.3ab for 1000BaseT

Freigabe erteilt / general release:

Kunde / customer

Datum / date

Unterschrift / signature

Würth Elektronik

Geprüft / checked

Kontrolliert / approved

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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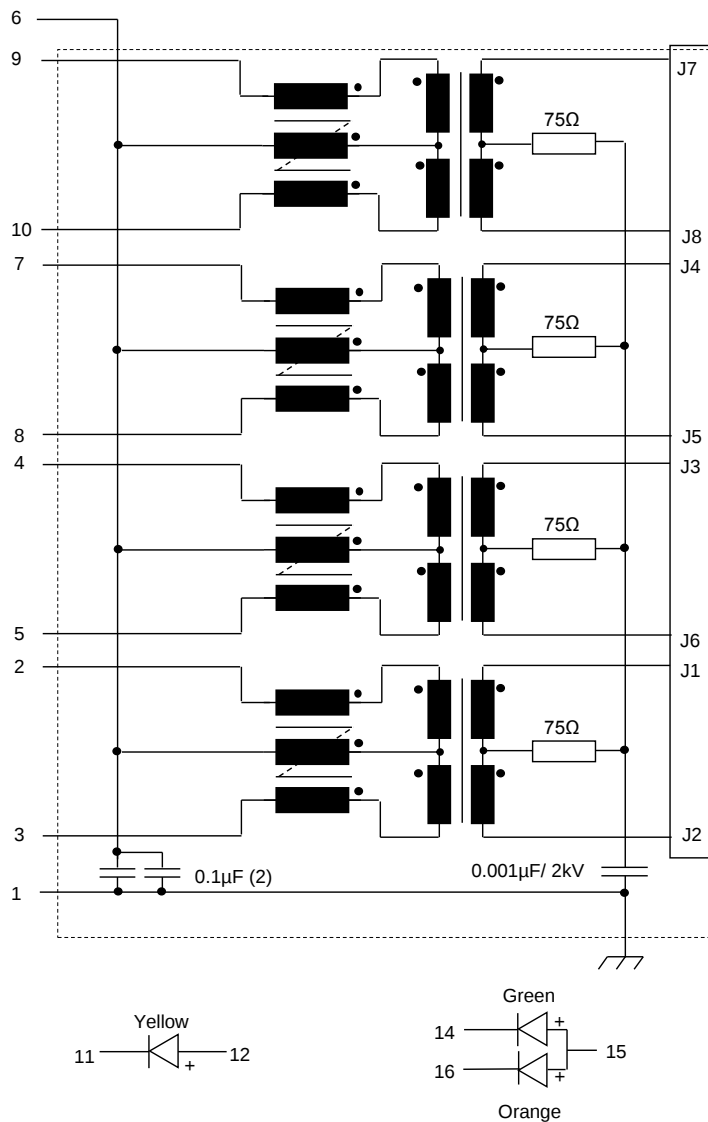
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description : LAN-Transformer WE-RJ45LAN 10/100/1000 BaseT + USB

**WÜRTH ELEKTRONIK**

DATUM / DATE : 2015-09-18

### H Schaltbild / Schematics :



|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer         |      |                         |              |
|                                     |                          |      |                         |              |
| Datum / date                        | Unterschrift / signature |      |                         |              |
|                                     | Würth Elektronik         | JaB  | Revision 02             | 2015-09-18   |
|                                     |                          | KSc  | Revision 01             | 2010-10-27   |
|                                     |                          | KSc  | Revision 00             | 2010-02-12   |
| Geprüft / checked                   | Kontrolliert / approved  | Name | Änderung / modification | Datum / date |

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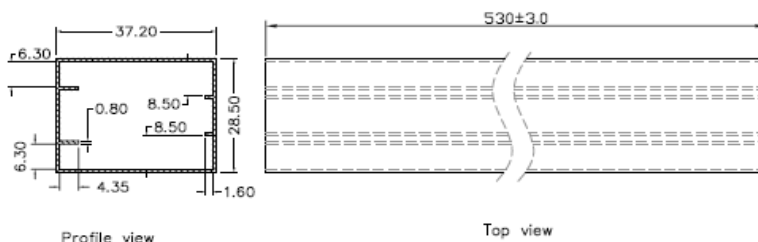
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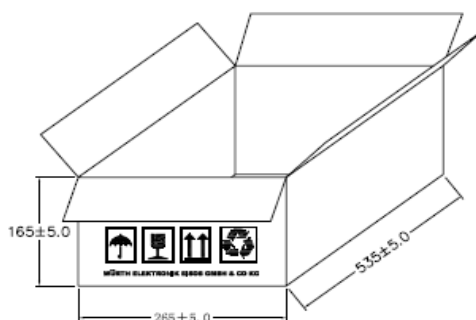
### I Verpackungsspezifikation / package specification :

#### PACKAGING(Tube)

Tube



Carton



#### PACKING QUANTITY:

29pcs Finished Goods / Tube

30pcs Tube (870pcs Finished Goods) / Carton

|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
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|                                     |                          |      |                         |              |
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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 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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