

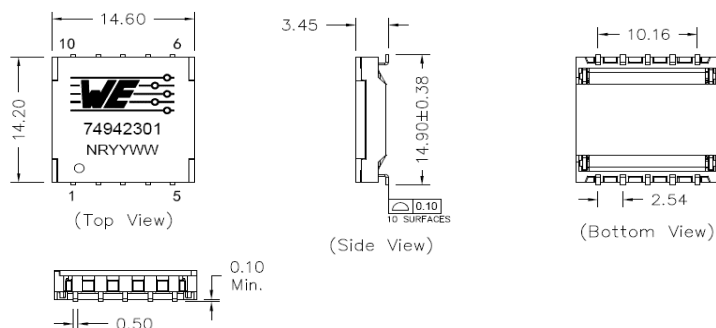
# Spezifikation für Freigabe / specification for release

Kunde / customer :  
 Artikelnummer / part number : **74942301**  
 Bezeichnung : **WE-BMS**  
 description : **Transformer for Battery Management Systems**

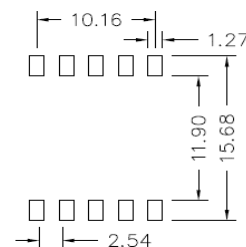


DATUM / DATE : 2020-04-02

## A Mechanische Abmessungen / dimensions :



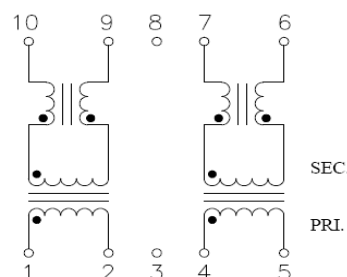
## B Lötpad / soldering spec. :



## C Elektrische Eigenschaften / electrical properties :

| Eigenschaften / properties           | Testbedingungen / test conditions |      | Wert / value | Einheit / unit | tol. |
|--------------------------------------|-----------------------------------|------|--------------|----------------|------|
| Induktivität / Inductance            | 100kHz / 100mV                    | OCL  | 150 ~ 450    | uH             |      |
| Übersetzungsverhältnis / Turns ratio | 100kHz / 100mV                    | TR   | 1 : 1        |                | 3%   |
| Insertion Loss                       | 4MHz                              | IL   | -0.25        | dB             | max. |
| Return Loss                          | 4MHz @ 100Ω                       | RL   | -20          | dB             | min. |
| Common Mode Rejection Ratio          | 1MHz-10MHz<br>10MHz-1000MHz       | CMRR | -35<br>-20   | dB             | min. |
| Hipot                                | Pri side to Sec side              |      | 4300VDC, 60s | VDC            | min. |
| Leakage Inductance                   | 100kHz / 100mV                    | LL   | 0.5          | uH             | max. |
| DCR                                  | Pri side                          |      | 0.45         | ohms           | max. |
|                                      | Sec Side                          |      | 0.85         | ohms           | max. |

## D Schaltbild / Schematics :



## E Prüfgeräte / test equipment :

Agilent E5071C

## F Testbedingungen / test conditions :

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

## G Werkstoffe & Zulassungen / material & approvals :

Basismaterial / base material: Ferrit/ ferrite  
 Draht / wire: FIW 6  
 Kontaktmaterial/ contact plating: Cu-Ni-Sn  
 Gehäuse/ case: Phenolic Black UL94V-0

## H Eigenschaften / general specifications :

Operating temperature: -40°C - +125°C  
 Creepage distance: 10 mm min.

|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer         |      |                         |              |
|                                     |                          |      |                         |              |
| Datum / date                        | Unterschrift / signature |      |                         |              |
|                                     | Würth Elektronik         |      |                         |              |
|                                     |                          |      |                         |              |
| Geprüft / checked                   | Kontrolliert / approved  | Jlu  | Preliminary             | 2020-04-02   |
|                                     |                          | Name | Änderung / modification | Datum / date |

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