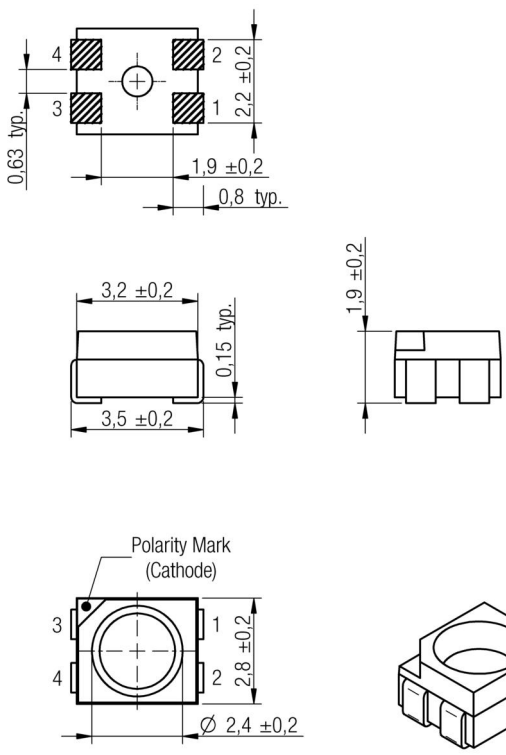
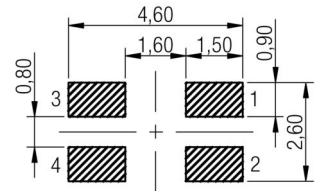


A Dimensions: [mm]

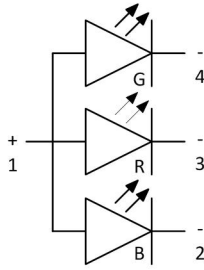


B Recommended land pattern: [mm]



Scale - 5:1

C Schematic:



Scale - 5:1

Optical Properties:

| Properties | Value |
|-----------------|--------------------|
| Chip Technology | AlInGaP + InGaN |
| Emitting Color | Red & Green & Blue |
| Lens Type | Top LED |



D Absolute Maximum Ratings (Ambient Temperature 25°C):

| Properties | Test conditions | | Value | Unit |
|----------------------------------|-----------------|----------------------|-------|------|
| Power Dissipation (Red) | | P _{Diss R} | 72 | mW |
| Power Dissipation (Green) | | P _{Diss G} | 108 | mW |
| Power Dissipation (Blue) | | P _{Diss B} | 108 | mW |
| Peak Forward Current | duty/10@1kHz | I _{F Peak} | 100 | mA |
| Continuous Forward Current | | I _F | 30 | mA |
| Reverse Voltage | | V _{Rev} | 5 | V |
| ESD Threshold/ Human Body Modell | | V _{ESD HBM} | 1000 | V |

E General information:

- Operating temperature: -40°C to +85°C
- Storage temperature (sealed bag): -40°C to +85°C; 60% RH max.



D Electrical & Optical Properties:

| Properties | Test conditions | | Value | | | Unit |
|-----------------------------|-----------------|---------------------------|-------|------|------|------|
| | | | min. | typ. | max. | |
| Peak Wavelength (Red) | 20 mA | $\lambda_{\text{Peak R}}$ | | 635 | | nm |
| Dominant wavelength (red) | 20 mA | $\lambda_{\text{Dom R}}$ | | 625 | | nm |
| Luminous Intensity (Red) | 20 mA | $I_V \text{ R}$ | 200 | 270 | | mcd |
| Forward voltage (red) | 20 mA | $V_F \text{ R}$ | | 2.0 | 2.4 | V |
| Spectral Bandwidth (Red) | 20 mA | $\Delta\lambda \text{ R}$ | | 15 | | nm |
| | | | | | | |
| Peak Wavelength (Green) | 20 mA | $\lambda_{\text{Peak G}}$ | | 515 | | nm |
| Dominant wavelength (green) | 20 mA | $\lambda_{\text{Dom G}}$ | | 520 | | nm |
| Luminous Intensity (Green) | 20 mA | $I_V \text{ G}$ | 700 | 950 | | mcd |
| Forward voltage (green) | 20 mA | $V_F \text{ G}$ | | 3.2 | 3.6 | V |
| Spectral Bandwidth (Green) | 20 mA | $\Delta\lambda \text{ G}$ | | 35 | | nm |

D Electrical & Optical Properties:

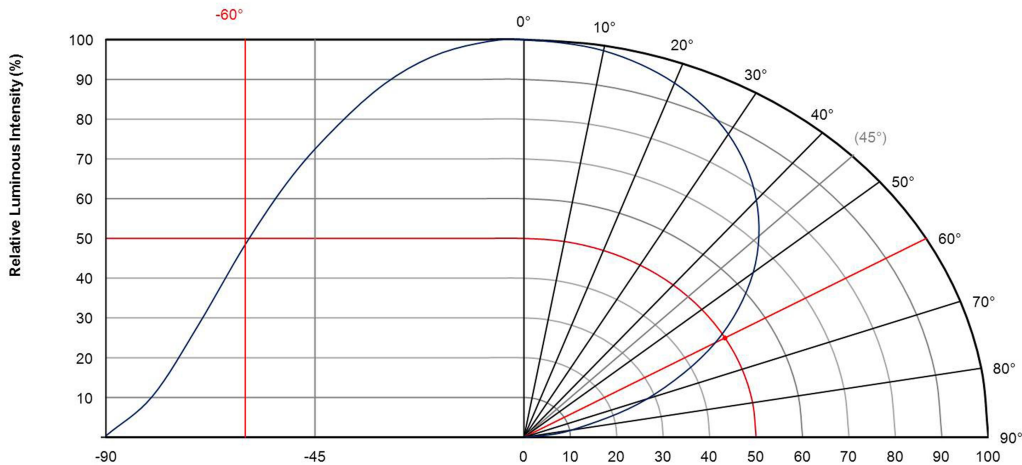
| Properties | Test conditions | | Value | | | Unit |
|----------------------------|-----------------|---------------------------|-------|------|------|---------------|
| | | | min. | typ. | max. | |
| Peak Wavelength (Blue) | 20 mA | $\lambda_{\text{Peak B}}$ | | 465 | | nm |
| Dominant wavelength (blue) | 20 mA | $\lambda_{\text{Dom B}}$ | | 470 | | nm |
| Luminous Intensity (Blue) | 20 mA | $I_V \text{ B}$ | 180 | 230 | | mcd |
| Forward voltage (blue) | 20 mA | $V_F \text{ B}$ | | 3.2 | 3.6 | V |
| Spectral Bandwidth (Blue) | 20 mA | $\Delta\lambda \text{ B}$ | | 20 | | nm |
| | | | | | | |
| Reverse Current | 5 V | I_{Rev} | | | 10 | μA |
| Viewing angle | 20 mA | $2\theta_{50\%}$ | | 120 | | ° |

| | | | | | | | | | | | | |
|-----|------------|-----|---------|--|---|--|----------------------|--|---|------|------------|--|
| | | | | <div>Projection</div>  |  | DESCRIPTION | | | | | | |
| 2.4 | 2013-09-10 | SSt | SSt | | | WL-SFTW SMD TOP LED full-color waterclear | | | | | | |
| 2.3 | 2013-05-14 | SSt | HOe | | | | | | | | | |
| 2.2 | 2013-04-10 | SSt | SSt | <div>Würth Elektronik eiSos GmbH & Co. KG</div> <div>EMC & Inductive Solutions</div> <div>Max-Eyth-Str. 1</div> <div>74638 Waldenburg</div> <div>Germany</div> <div>Tel. +49 (0) 79 42 945 - 0</div> <div>www.we-online.com</div> <div>eiSos@we-online.com</div> | | | Order.- No. | |  <div>COMPLIANT</div> <div>RoHS&REACH</div> <div>HALOGENFREE</div> | SIZE | | |
| 2.1 | 2012-12-10 | SSt | SSt | | | | 150141M173100 | | | A4 | | |
| 2.0 | 2012-11-05 | SSt | HOe | | | | | | | | Size: 3528 | |
| 1.2 | 2012-02-02 | SSt | HOe | | | | | | | | | |
| 1.1 | 2012-01-09 | SSt | HOe | | | | | | | | | |
| REV | DATE | BY | CHECKED | | | | | | | | | |

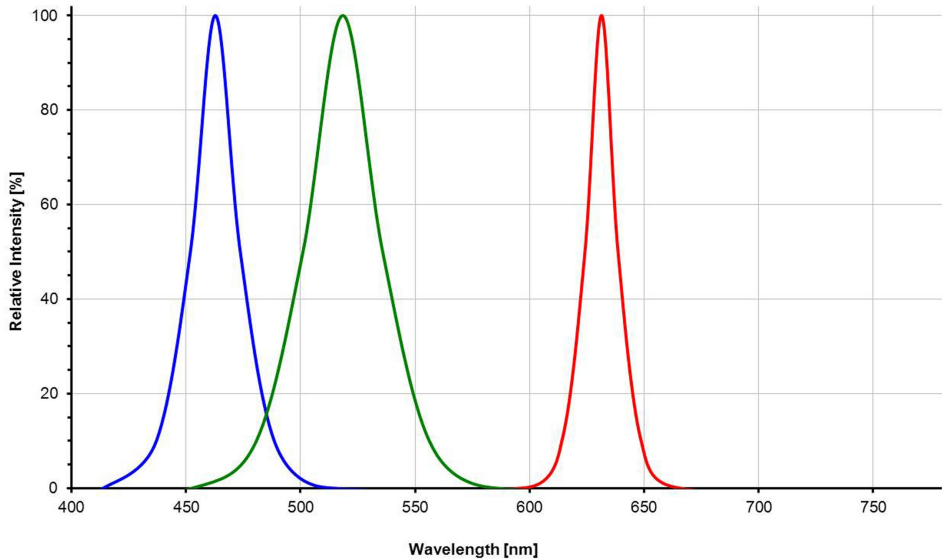
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F Viewing Angle:



F Spectral:

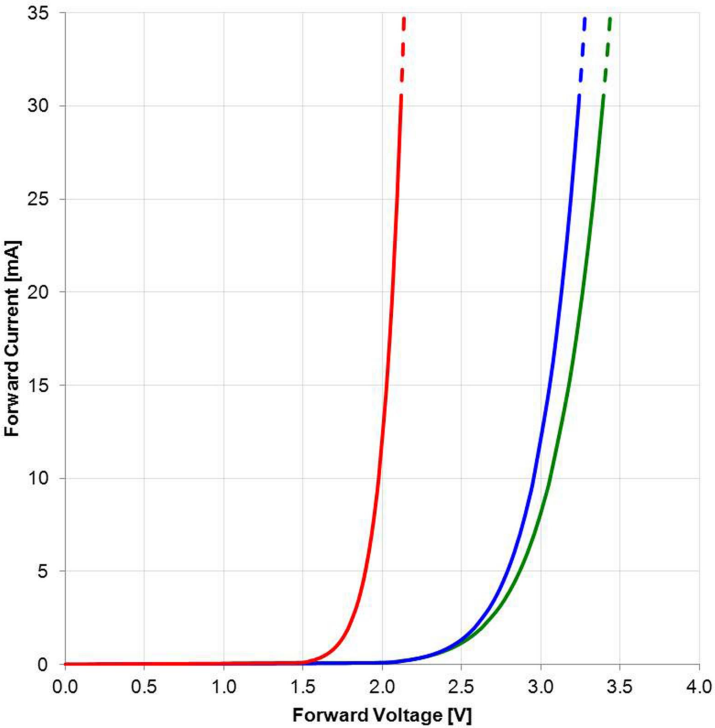


| | | | | | | | | |
|-----|------------|-----|---------|---|---|--|--|------|
| | | | | <div>Projection</div>  |  | DESCRIPTION | | |
| 2.4 | 2013-09-10 | SSt | SSt | | | <div>WL-SFTW SMD TOP LED full-color waterclear</div> | | |
| 2.3 | 2013-05-14 | SSt | HOe | | | | | |
| 2.2 | 2013-04-10 | SSt | SSt | <div>Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com</div> | | <div>Order.- No.</div> <div>150141M173100</div> <div>COMPLIANT RoHS&REACH HALOGENFREE</div> | | SIZE |
| 2.1 | 2012-12-10 | SSt | SSt | | | | | A4 |
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| REV | DATE | BY | CHECKED | | | Size: 3528 | | |

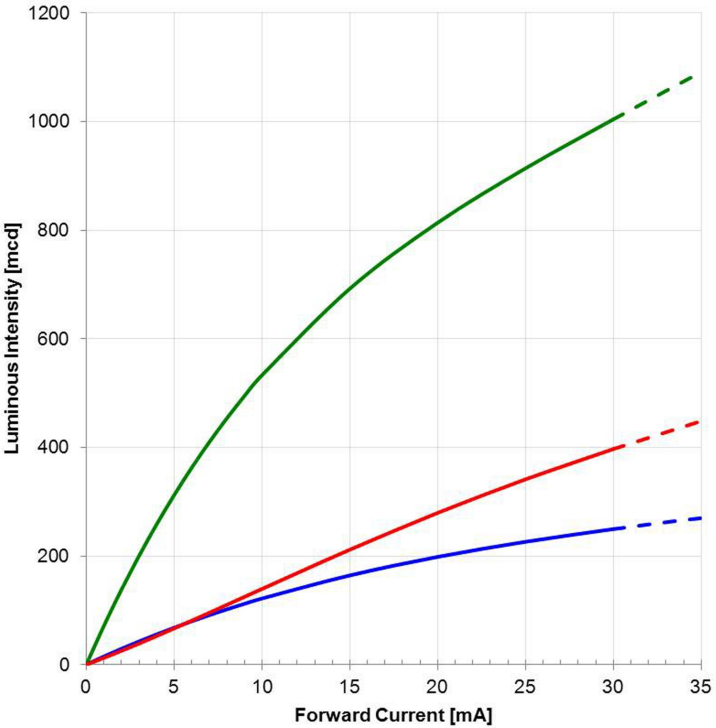
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F Forward Current vs. Forward Voltage:



F Luminous Intensity vs. Forward Current:



| | | | | | | | | |
|-----|------------|-----|---------|---|---|--|---|------|
| | | | | <div>Projection</div>  |  | DESCRIPTION | | |
| 2.4 | 2013-09-10 | SSt | SSt | | | <div>Würth Elektronik eiSos GmbH & Co. KG</div> <div>EMC & Inductive Solutions</div> <div>Max-Eyth-Str. 1</div> <div>74638 Waldenburg</div> <div>Germany</div> <div>Tel. +49 (0) 79 42 945 - 0</div> <div>www.we-online.com</div> <div>eiSos@we-online.com</div> | WL-SFTW SMD TOP LED full-color waterclear | |
| 2.3 | 2013-05-14 | SSt | HOe | | | | | |
| 2.2 | 2013-04-10 | SSt | SSt | | | | | |
| 2.1 | 2012-12-10 | SSt | SSt | | | | | |
| 2.0 | 2012-11-05 | SSt | HOe | | | | | |
| 1.2 | 2012-02-02 | SSt | HOe | | | | | |
| 1.1 | 2012-01-09 | SSt | HOe | | | | | |
| REV | DATE | BY | CHECKED | | | Order.- No. | <div><div>COMPLIANT RoHS&REACH HALOGENFREE</div></div> | SIZE |
| | | | | | | 150141M173100 | A4 | |
| | | | | | | Size: 3528 | | |

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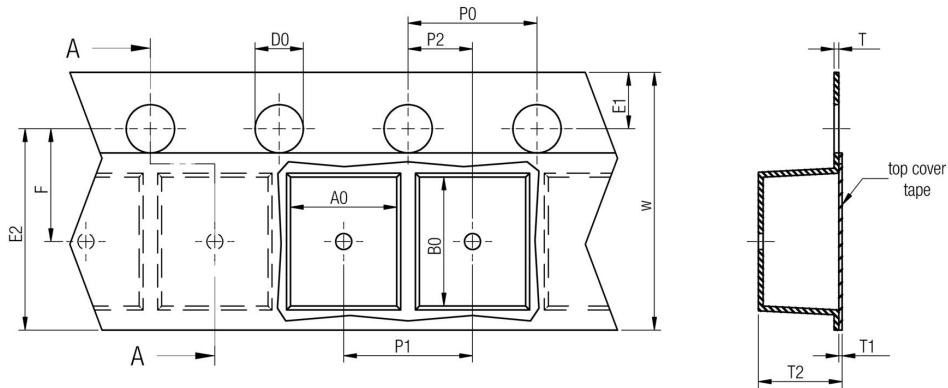


F Derating Curve:

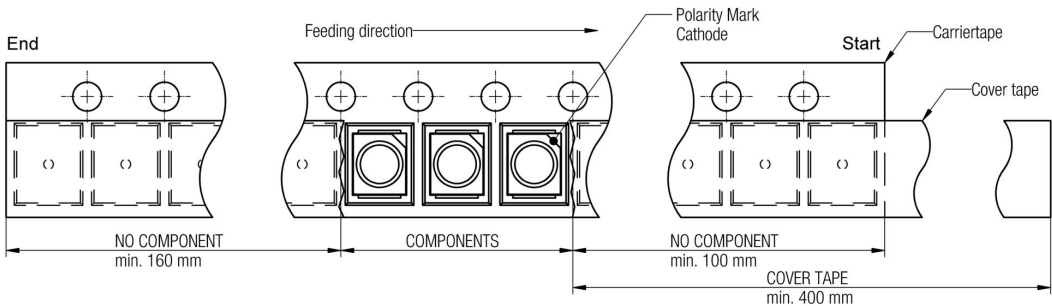


| | | | | | | | | | |
|-----|------------|-----|---------|---|---|--|--|---|------|
| | | | | <div>Projection</div>  |  | DESCRIPTION | | | |
| 2.4 | 2013-09-10 | SSt | SSt | | | <div>WL-SFTW SMD TOP LED full-color waterclear</div> | | | |
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| REV | DATE | BY | CHECKED | | | | | | |

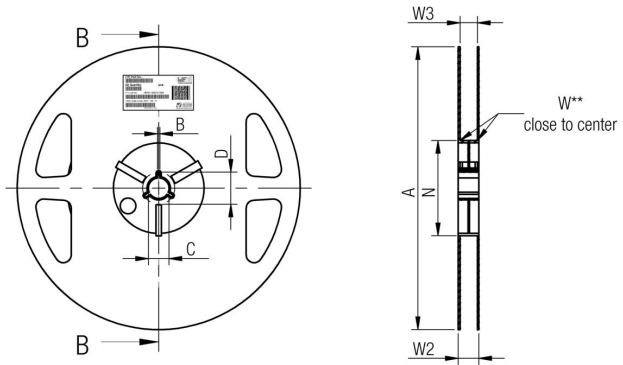
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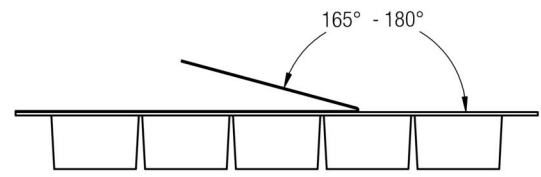
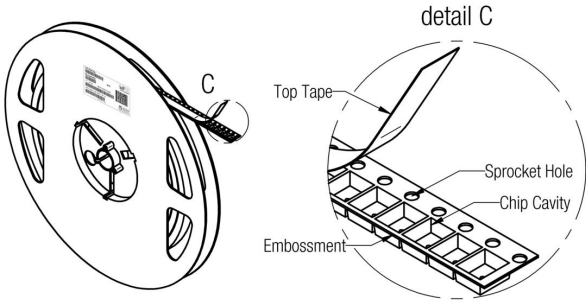
| | A0 | B0 | W | P1 | T | T1 | T2 | D0 | E1 | E2 | F | P0 | P2 | Tape | Packaging Unit |
|-----------|------|------|--------------|-------|-------|------|------|--------------|-------|------|--------|-------|--------|------|------------------|
| tolerance | typ. | typ. | +0,3 -0,1 | ± 0,1 | ± 0,1 | max. | typ. | +0,1 -0,0 | ± 0,1 | min. | ± 0,05 | ± 0,1 | ± 0,05 | | |
| size | 1411 | 3,30 | 4,00 | 8,00 | 4,00 | 0,15 | 0,10 | 2,50 | 1,50 | 1,75 | 6,25 | 3,50 | 4,00 | 2,00 | Polystyrene 2000 |



Packaging is referred to the international standard IEC 60286 -3:2007



| | | A | B | C | D | N | W1 | W2 | W3 | W3 |
|------------|------|--------|------|-------|-------|-------|-------|-------|------|-------|
| tolerance | | | min. | ± 0,8 | min. | min. | + 1,5 | max. | min. | max. |
| Tape width | 8 mm | 178,00 | 1,50 | 13,00 | 20,20 | 50,00 | 8,40 | 14,40 | 7,90 | 10,90 |



| | Pull-of force |
|-----------------|---------------|
| Tape width 8 mm | 0,1 N - 1,0 N |

| | | | | Projection |
|-----|------------|-----|---------|------------|
| 2.4 | 2013-09-10 | SSt | SSt | |
| 2.3 | 2013-05-14 | SSt | HOe | |
| 2.2 | 2013-04-10 | SSt | SSt | |
| 2.1 | 2012-12-10 | SSt | SSt | |
| 2.0 | 2012-11-05 | SSt | HOe | |
| 1.2 | 2012-02-02 | SSt | HOe | |
| 1.1 | 2012-01-09 | SSt | HOe | |
| REV | DATE | BY | CHECKED | |

Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
Max-Eyth-Str. 1
74638 Waldenburg
Germany
Tel. +49 (0) 79 42 945 - 0
www.we-online.com
eiSos@we-online.com

| DESCRIPTION | | |
|--|----------------------|------|
| WL-SFTW SMD TOP LED full-color waterclear | | |
| Order.- No. | 150141M173100 | SIZE |
| Size: 3528 | | A4 |

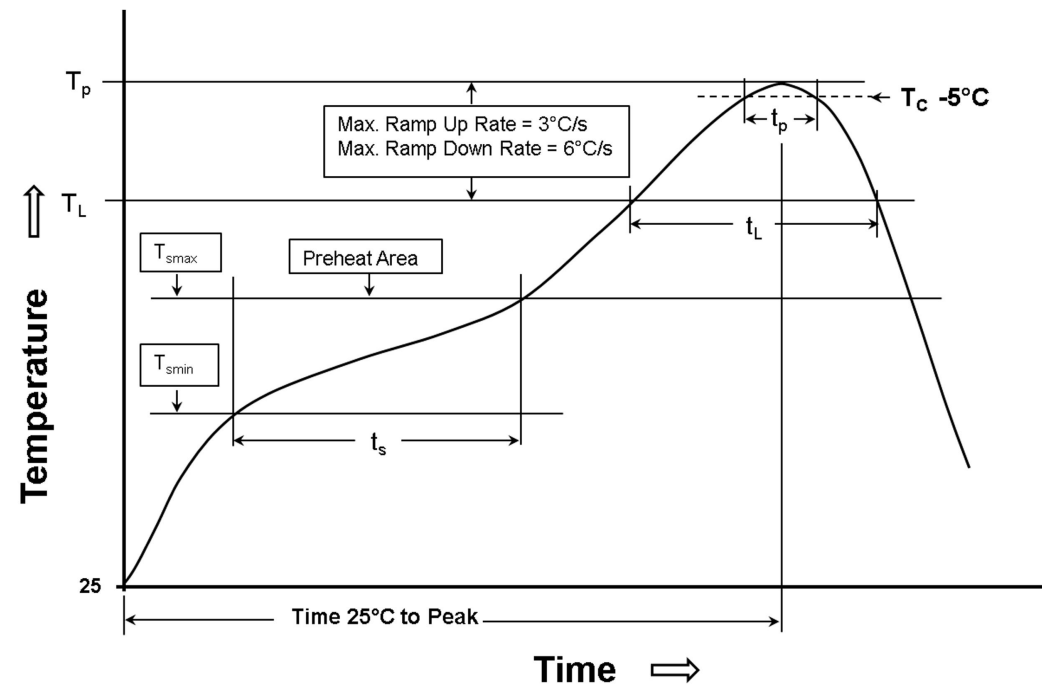


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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profile:

| Profile Feature | Pb-Free Assembly |
|---|------------------------------------|
| Preheat <ul style="list-style-type: none">- Temperature Min (T_{smin})- Temperature Max (T_{smax})- Time (t_s) from (T_{smin} to T_{smax}) | 150°C 200°C 120 seconds max. |
| Ramp-up rate (T_L to T_P) | 3°C/ second max. |
| Liquidous temperature (T_L) Time (t_L) maintained above T_L | 217°C 60 seconds max. |
| Peak package body temperature (T_P) | 250°C max. |
| Time within 5°C of actual peak temperature (t_p) | 10 seconds max. |
| Ramp-down rate (T_P to T_L) | 6°C/ second max. |
| Time 25°C to peak temperature | 220 seconds max. |
| Applied cycles | 2 cycles max. |

| | | | | | | | | |
|-----|------------|-----|---------|---|--|--|--|------|
| | | | | Projection | | | DESCRIPTION | |
| 2.4 | 2013-09-10 | SSt | SSt | | | | WL-SFTW SMD TOP LED full-color waterclear | |
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| 2.2 | 2013-04-10 | SSt | SSt | <div>Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com</div> | | | 150141M173100 | A4 |
| 2.1 | 2012-12-10 | SSt | SSt | | | | | |
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| 1.2 | 2012-02-02 | SSt | HOe | | | | | |
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I Cautions and Warnings:

The following conditions apply to all goods within the product series of WL-SFTW of Würth Elektronik eiSos GmbH & Co. KG:

General:

All recommendations according to the general technical specifications of the data-sheet have to be complied with.

The disposal and operation of the product within ambient conditions which probably alloy or harm the component surface has to be avoided.

If the product is potted in customer applications, the potting material might shrink during and after hardening. Accordingly to this the product is exposed to the pressure of the potting material with the effect that the LED body, pins or termination is possibly damaged by this pressure and so the electrical as well as the mechanical characteristics are endanger to be affected. After the potting material is cured, the LED body, pins or termination of the product have to be checked if any reduced electrical or mechanical functions or destructions have occurred.

The responsibility for the applicability of customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products do also apply for customer specific products.

Washing varnish agent that is used during the production to clean the application might damage or change the characteristics of the LED body, pins or termination. The washing varnish agent could have a negative effect on the long term function of the product.

Direct mechanical impact to the product shall be prevented as the material of the LED body, pins or termination could flake or in the worst case it could break.



Product specific:

Follow all instructions mentioned in the datasheet, especially:

- The solder profile has to be complied with according to the technical reflow/ or wave soldering specification, otherwise no warranty will be sustained.
- All products shall be used before the end of the period of 12 months based on the product date-code, if not a 100% solderability can't be warranted.
- Violation of the technical product specifications such as exceeding the absolute maximum ratings will result in the loss of warranty.
- It is also recommended to return the LEDs to the original moisture proof bag and reseal the moisture proof bag again.
- Certain LED surfaces consist of soft material. Pressure on the top surface has to be handled carefully to prevent negative influence to the function and reliability of the LEDs.
- ESD prevention methods need to be applied for manual handling and processing by machinery.
- Resistors for protection are obligatory.
- LED products in operation could harm human vision, therefore direct light impact has to be avoided.

| | | | | | | | |
|-----|------------|-----|---------|---|---|--|--|
| | | | | <div>Projection</div>  |  | DESCRIPTION | |
| 2.4 | 2013-09-10 | SSt | SSt | | | <div>Würth Elektronik eiSos GmbH & Co. KG</div> <div>EMC & Inductive Solutions</div> <div>Max-Eyth-Str. 1</div> <div>74638 Waldenburg</div> <div>Germany</div> <div>Tel. +49 (0) 79 42 945 - 0</div> <div>www.we-online.com</div> <div>eiSos@we-online.com</div> | <div>WL-SFTW SMD TOP LED full-color waterclear</div> |
| 2.3 | 2013-05-14 | SSt | HOe | | | | |
| 2.2 | 2013-04-10 | SSt | SSt | | | | |
| 2.1 | 2012-12-10 | SSt | SSt | | | | |
| 2.0 | 2012-11-05 | SSt | HOe | Order.- No. |  <div>COMPLIANT RoHS&REACH HALOGENFREE</div> | | SIZE |
| 1.2 | 2012-02-02 | SSt | HOe | <div>150141M173100</div> | | | A4 |
| 1.1 | 2012-01-09 | SSt | HOe | | | | |
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Important Notes:

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications.

In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component.

Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.



6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG.

Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

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|-----|------------|-----|---------|---|--|--|-------------|
| | | | | Projection | | | DESCRIPTION |
| 2.4 | 2013-09-10 | SSt | SSt | | | | |
| 2.3 | 2013-05-14 | SSt | HOe | Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com | | WL-SFTW SMD TOP LED full-color waterclear | |
| 2.2 | 2013-04-10 | SSt | SSt | | | | |
| 2.1 | 2012-12-10 | SSt | SSt | | | | |
| 2.0 | 2012-11-05 | SSt | HOe | | | | |
| 1.2 | 2012-02-02 | SSt | HOe | | | | |
| 1.1 | 2012-01-09 | SSt | HOe | | | | |
| REV | DATE | BY | CHECKED | | | | |
| | | | | Order.- No. | | | SIZE |
| | | | | 150141M173100 | | A4 | |
| | | | | Size: 3528 | | | |