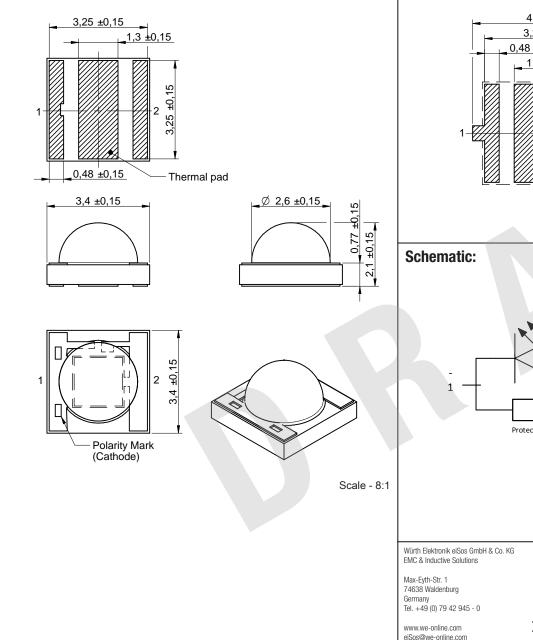
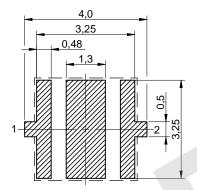
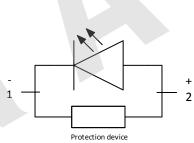
Dimensions: [mm]



Recommended Land Pattern: [mm]





Absolute Maximum Ratings (Ambient Temperature 25°C):

Properties	Test conditions		Value	Unit
Power Dissipation		P _{Diss}	2.52	W
Peak Forward Current	duty/ 10 @ 1 kHz	I _{F Peak}	1000	mA
Continuous Forward Current		I _F	700	mA
Reverse Voltage		V _{REV}	5	V
ESD Threshold/ Human Body Model		V _{ESD HBM}	8000	V
Absolute Thermal Resistance Junction to Solder Point		R _{øjs}	8	K/W
Junction Temperature		Tj	150	°C

Optical Properties:

Scale - 8:1

Chip Technology	InGaN
Emitting Color	Warm White
Lens Type	Dome Lens Waterclear

General Information:

Operating Temperature	-40 °C up to +125 °C						
Storage Temperature (in original packaging)		-40 °C up to +125 °C, $<60\%$ RH					
Moisture Sensitive Level	MSL	2					

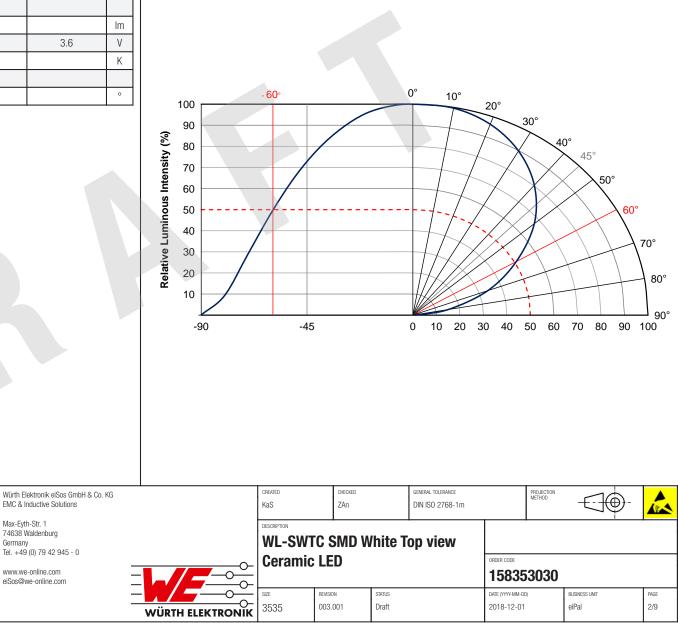
Elektronik eiSos GmbH & Co. KG Inductive Solutions	CREATED KaS	CHECKED ZAn		tolerance 0 2768-1m		PROJECTION METHOD		
yth-Str. 1 Waldenburg ny 19 (0) 79 42 945 - 0	WL-SWTC SMD White Top view							
ve-online.com	Ceramic LED			ORDER CODE 158353030				
	^{SIZE} 3535	REVISION 003.001	status Draft		DATE (YYYY-MM-DD 2018-12-01		BUSINESS UNIT eiPal	page 1/9

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and rel

Electrical & Optical Properties:

Properties	Test conditions		Value					
Flopences			min.	typ.	max.	Unit		
Chromaticity Coordinate X	350 mA	C _X		0.4343				
Chromaticity Coordinate Y	350 mA	Су		0.403				
Luminous Flux	350 mA	Φ	80	95		lm		
Forward Voltage	350 mA	V _F		3.2	3.6	V		
Correlated Color Temperature	350 mA	CCT		3000		К		
Color Rendering Index	350 mA	CRI		80				
Viewing Angle Phi 0°	350 mA	2θ _{50%}		120		0		

Viewing Angle:



This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and rel

Max-Eyth-Str. 1

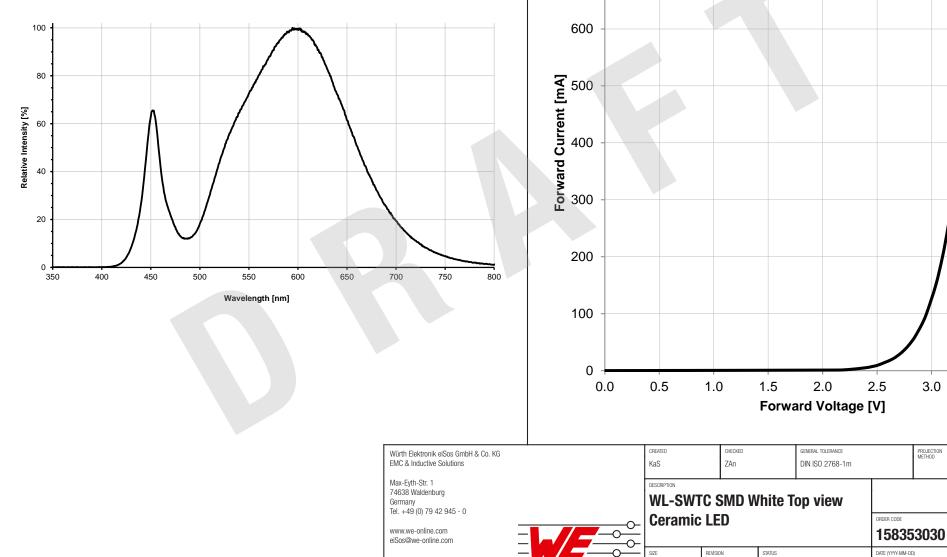
Germany

74638 Waldenburg

www.we-online.com

eiSos@we-online.com





WÜRTH ELEKTRONIK

003.001

3535

Draft

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be information intended for use in equipment where a higher safety standard and reliability standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be information intended for use in equivalent is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be information network etc.. Wurth Elektronik elSos GmbH & Co KG must be information intended to use is electronic component which is used in electrical circuits there adjust high standard is especially executed an electronic component which is used in electrical circuits there are electrical circuits ther

Forward Current vs. Forward Voltage:

3.0

PROJECTION METHOD

2018-12-01

3.5

BUSINESS UNIT

eiPal

⊕

4.0

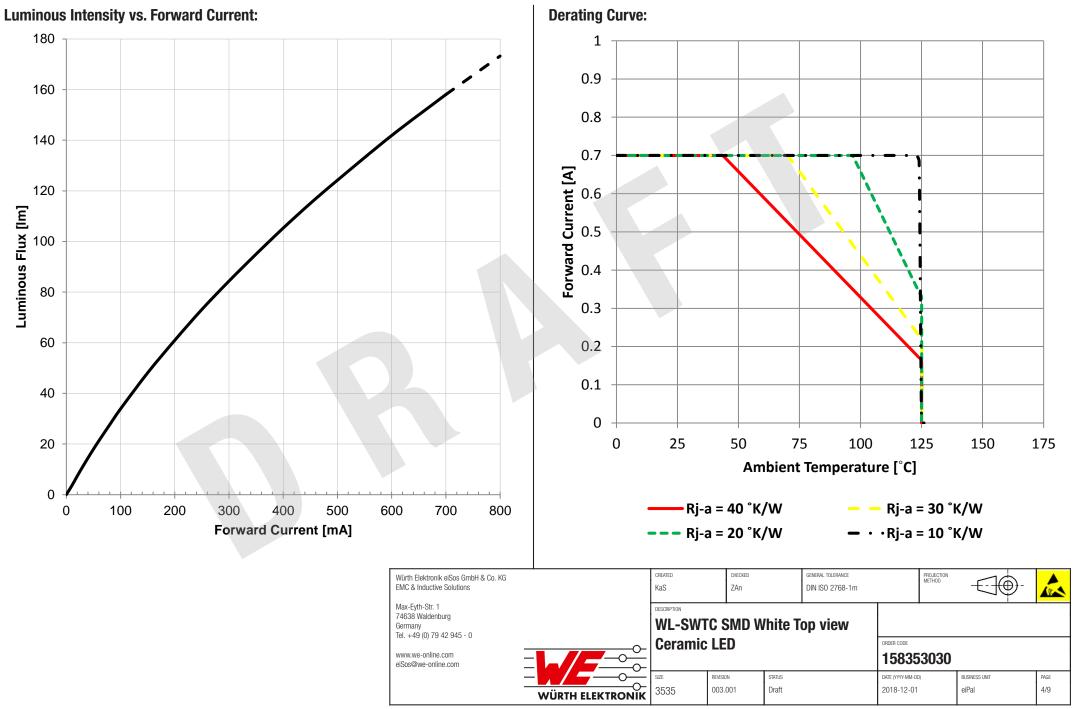
18

PAGE

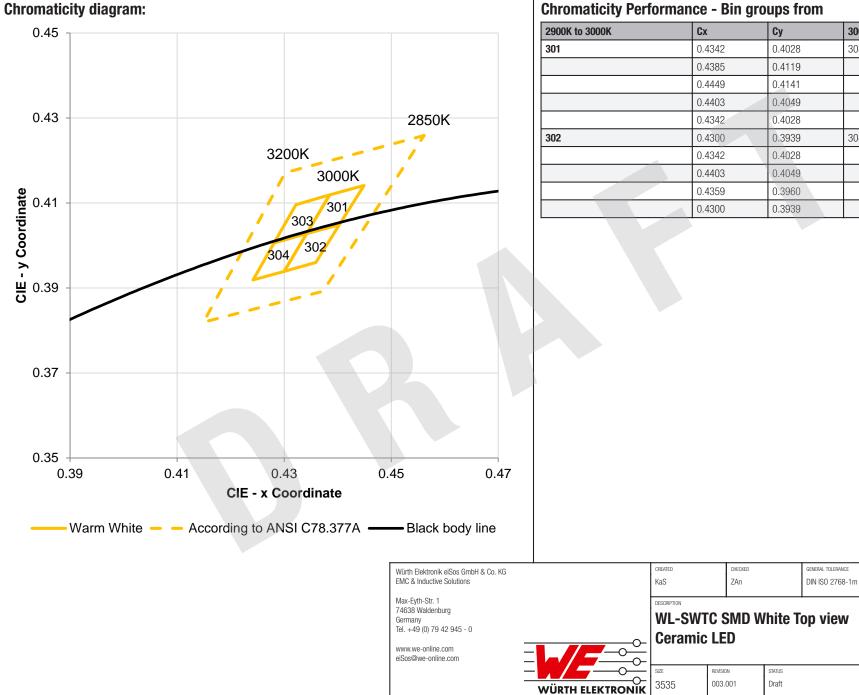
3/9

800

700



This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in effectival crustel severation (automotive control, train control, ship control), train control, ship control, train control, ship cont



This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be information intended for use in equipment where a higher safety standard and reliability standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be information intended for use in equivalent is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be information network etc.. Wurth Elektronik elSos GmbH & Co KG must be information intended to use is electronic component which is used in electrical circuits there adjust high standard is especially executed an electronic component which is used in electrical circuits there are electrical circuits ther

Chromaticity Performance - Bin groups from

2900K to 3000K	Сх	Cy	3000K to 3100K	Cx	Су
301	0.4342	0.4028	303	0.4281	0.4006
	0.4385	0.4119		0.4322	0.4096
	0.4449	0.4141		0.4385	0.4119
	0.4403	0.4049		0.4342	0.4028
	0.4342	0.4028		0.4281	0.4006
302	0.4300	0.3939	304	0.4242	0.3919
	0.4342	0.4028		0.4281	0.4006
	0.4403	0.4049		0.4342	0.4028
	0.4359	0.3960		0.4300	0.3939
	0.4300	0.3939		0.4242	0.3919

PROJECTION METHOD

BUSINESS UNIT

eiPal

PAGE

5/9

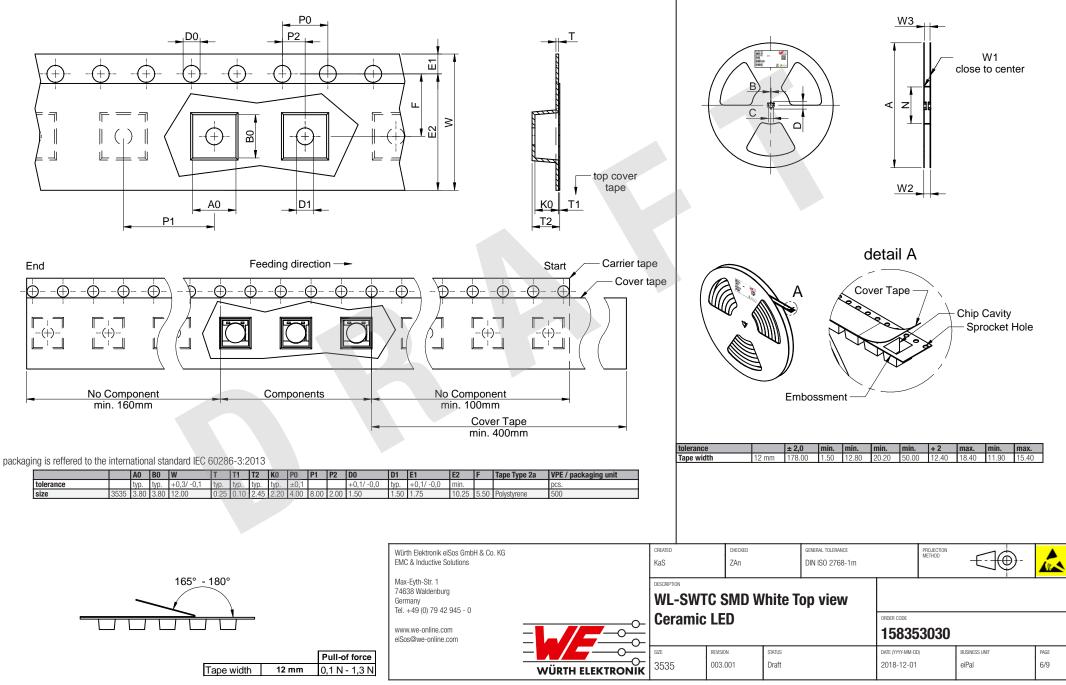
ORDER CODE

DATE (YYYY-MM-DD)

2018-12-01

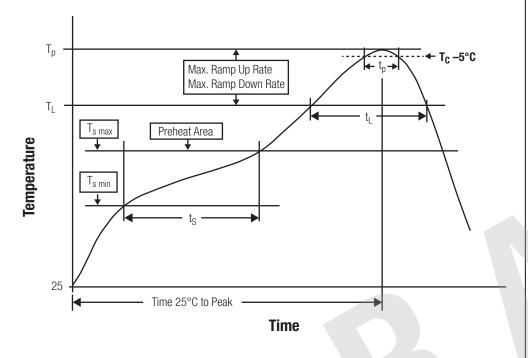
158353030

Packaging Specification - Tape and Reel: [mm]



This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in effectival crustel severation (automotive control, train control, ship control), train control, ship control, train control, ship cont

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

150 °C
200 °C
max. 60 - 120 seconds
3 °C/ second max.
217 °C
max. 60 seconds
see table
max. 10 seconds
6 °C/ second max.
max. 220 seconds

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature:

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly Package Thickness \geq 2.5 mm	250 °C	245 °C	245 °C
Applied cycles	2 cycles max.		

refer to IPC/ JEDEC J-STD-020E

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions	CREATED KaS	CHECKED ZAn		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	DESCRIPTION		Vhite T	op view		•	·	-
www.we-online.com eiSos@we-online.com	Ceramic LED				ORDER CODE	3030		
	size 3535	REVISION 003.001	status Draft		DATE (YYYY-MM-DI 2018-12-01	,	BUSINESS UNIT eiPal	PAGE 7/9

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and rel

Cautions and Warnings:

The following conditions apply to all goods within the product series of WL-SWTC 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 usage 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. 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 endangered 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 to customer specific products.

Washing varnish agent that is used during the production to clean the customer 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.

The standard deliveries include values in the range and limitation as defined in the Electrical & Optical Properties specified in the datasheet. On each reel, only one bin is sorted and taped. The bin is defined on intensity, chromaticity coordinate or wavelength and forward voltage. In order to ensure highest availability, the reel binning of standard deliveries can vary. A single bin cannot be ordered. Please contact us in advance, if you need a particular bin sorting before placing your order to clarify the lead time, MOQ and pricing.

Product specific:

Follow all instructions mentioned in the data sheet, especially:

- The soldering profile has to be complied with according to the technical reflow/ or wave soldering specification, otherwise this will void the warranty.
- 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 ensured.
- Violation of the technical product specifications such as exceeding the absolute maximum ratings will void the 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 handeled carefully to prevent negative influence to the function and reliability of the LEDs.
- ESD prevention methods need to be applicated for manual handling and processing by machinery.
- Resistors for protection are obligatory.

Luminaires in operation could harm human vision or skin on a photo-biological level, therefore direct light impact has to be avoided. All products are additionally certified as risk groups 0 to 2 according to DIN EN 62471:2008

Vürth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1	CREATED KaS	CHECKED		general tolerance DIN ISO 2768-1m		PROJECTION METHOD		
74638 Waldenburg Sermany fel. +49 (0) 79 42 945 - 0 www.we-online.com JSos@we-online.com	WL-SWTC SMD White Top view Ceramic LED				ORDER CODE	3030		
SOS⊴we-unine.cum		EVISION 03.001	status Draft		DATE (YYYY-MM-DD 2018-12-01)	BUSINESS UNIT eiPal	PAGE 8/9

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in entential tracium signal, advantine, transportation (automotive control, train control, ship control), train control, ship control, train control, train control, train control, ship control, train control, ship control, train control, trai

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.

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions	CREATED KaS	CHECKED ZAn		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	 WL-SWTC SMD White Top view Ceramic LED				ORDER CODE	-		
www.we-online.com eiSos@we-online.com					15835	3030		
	size 3535	REVISION 003.001	status Draft		DATE (YYYY-MM-DE 2018-12-01	,	BUSINESS UNIT eiPal	PAGE 9/9

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in entential submit and reliability standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG must be information intervork etc... Würth Elektronik elSos GmbH & Co KG must be information intervork etc... Würth Elektronik elSos GmbH & Co KG must be information component which is used in electrical circuits that require high state the require high state electrical circuits that require high state electrical circuits that