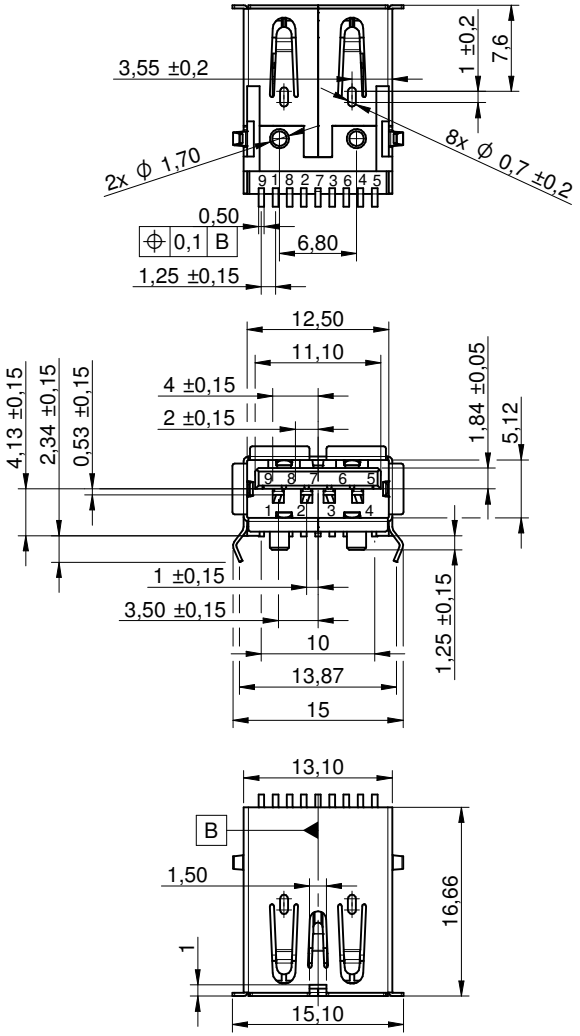
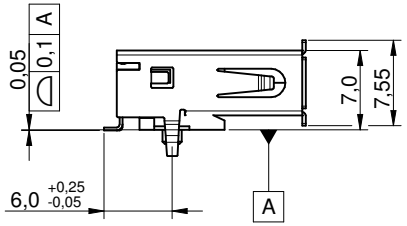
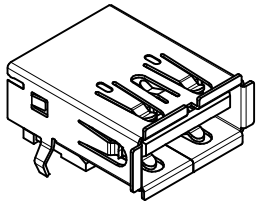
Dimensions: [mm]

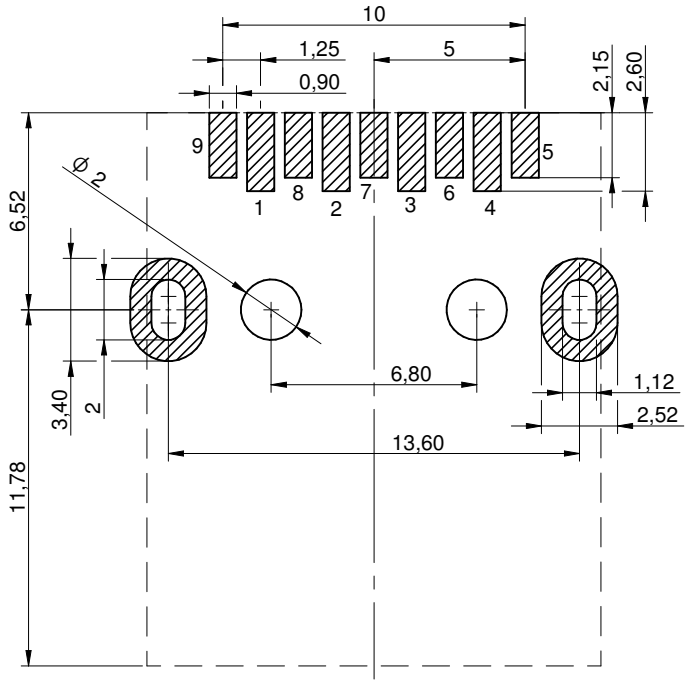






Scale - 1,5:1

Recommended Land Pattern: [mm]



General tolerance ±0,05

Scale - 4:1

NOTE: The recommended PCB Layout is for an optimized retention force of connector on PCB but it implies insertion force that alot of pick and place machines are not able to handle. Therefore, it might be necessary to drill bigger holes for the clips. Please check this carefully.

Article Properties:

Properties	Value	Unit
PCB Thickness [1)]	1.6	mm
Pins	9	

[1)] Note: This PCB thickness is recommended for optimal use. Processing temperature has to be adapted to respect JEDEC requirements if using other panel thicknesses.

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CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
FPe	001.002	2019-05-10	DIN ISO 2768-1m	

DESCRIPTION: **WR-COM USB 3.0 Horizontal SMT**

ORDER CODE: **692122030100**

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
Type A with Pegs	eiCan	Valid	1/7

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Pin Assignment:

Pin Number	Signal Name
1	VBUS
2	D-
3	D+
4	GND
5	StdA_SSRX-
6	StdA_SSRX+
7	GND_DRAIN
8	StdA_SSTX-
9	StdA_SSTX+
Shell	Shield

Kind Properties:

Durability	5 000 Mating cycles
Connector Type	USB
Gender	Receptacle
Type	Horizontal

Material Properties:

Insulator Material	LCP
Insulator Flammability Rating	UL94 V-0
Insulator Color	Blue
Contact Material	Phosphor Bronze
Contact Plating [1)]	Gold, min. 0.76µm over Nickel / Matte Tin over nickel
Shielding Material	Brass
Shielding Plating	Matte Tin
Contact Type	Stamped

[1)] Mating side / Solder side

General Information:

Operating Temperature	-20 up to +85 °C

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Rated Current	I_R		1.8	A	max.
Working Voltage			30	V (AC)	
Withstanding Voltage		1 min	100	V (AC)	
Contact Resistance	R		30	mΩ	max.
Insulation Resistance	R_{ISO}		100	MΩ	min.

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
Halogen Free	Conform [IEC 61249-2-21]
Halogen Free	Conform [JEDEC JS709B]
UL Approval	E323964

Packaging Properties:

Packaging	Tape and Reel

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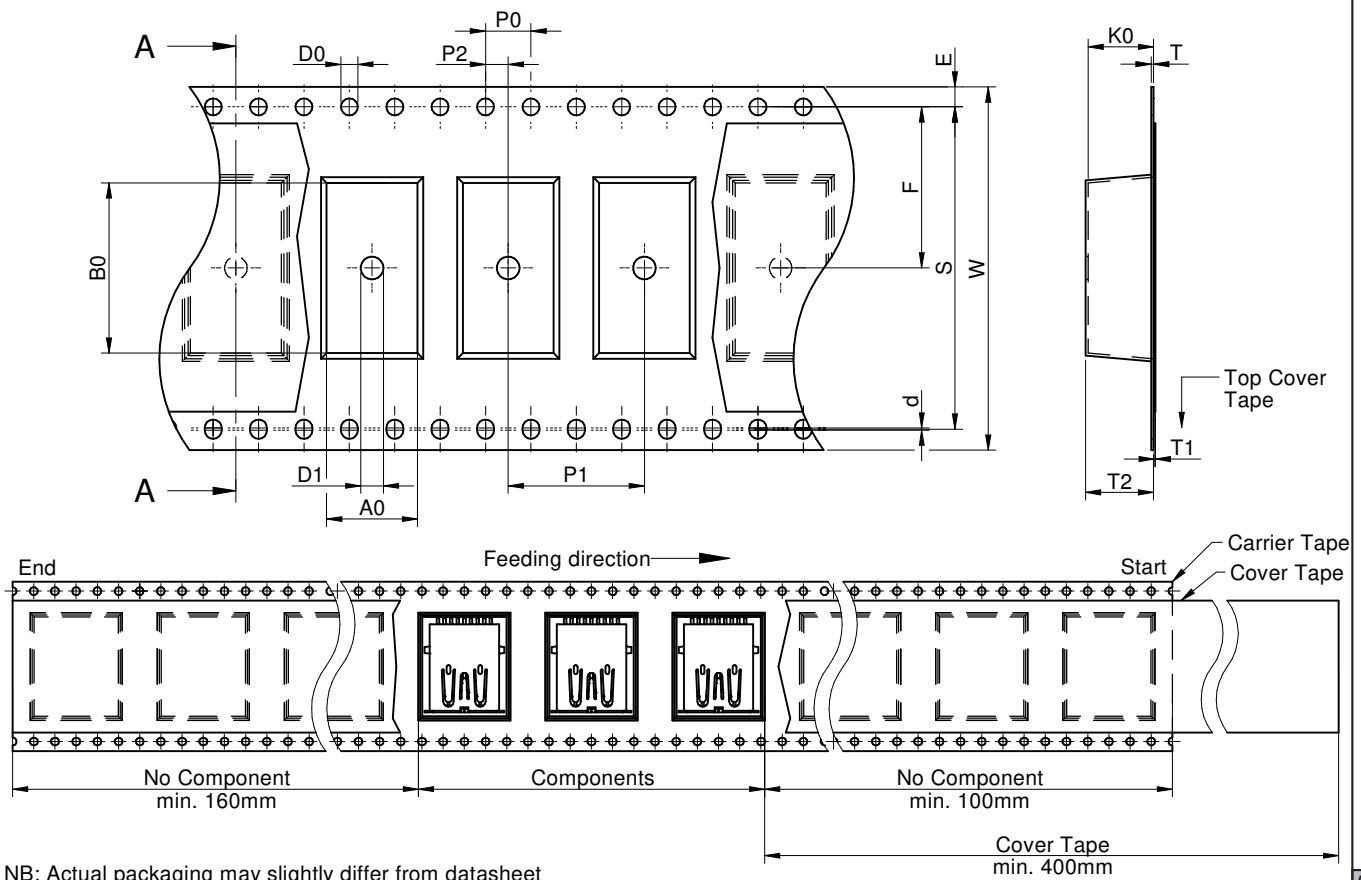
DESCRIPTION
WR-COM USB 3.0 Horizontal SMT

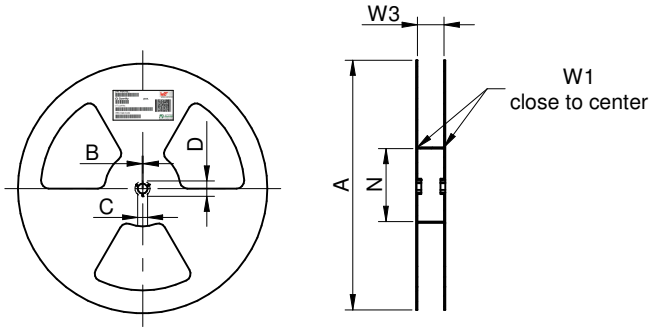
ORDER CODE
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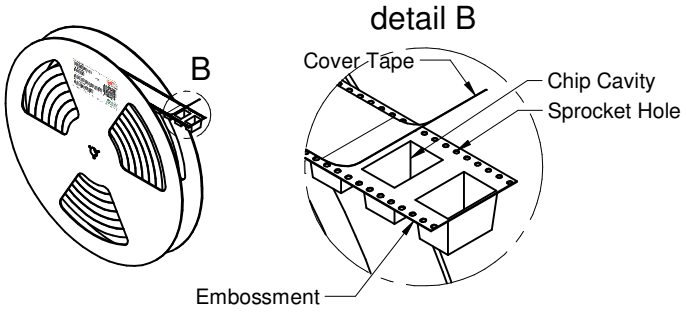
SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
Type A with Pegs	eiCan	Valid	2/7

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Packaging Specification - Tape and Reel: [mm]





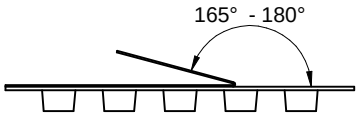


NB: Actual packaging may slightly differ from datasheet

Packaging is reffered to the international standard **IEC 60286-3:2013**

A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E	S	F	Tape Type 3	VPE / packaging unit
typ.	typ.	+0,3/-0,1	max.	max.	max.	typ.	±0,1	±0,1	±0,1	+0,1/ -0,0	min.	±0,1	±0,1	±0,1		pcs.
15,80	18,70	32,00	1,00	0,10	12.15	11,15	4,00	24,00	2,00	1,50	2,00	1,75	28,40	14,20	Polystyrene	200

A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
± 2,0	min.	min.	min.	± 2,0	+ 2,0	max.	min.	max.	
330,00	1,50	12,80	20,20	80,00	32,40	38,40	31,90	35,40	Polystyrene/ Polyurethane



		Pull-of force
Tape width	32 mm	0,1 N - 1,3 N

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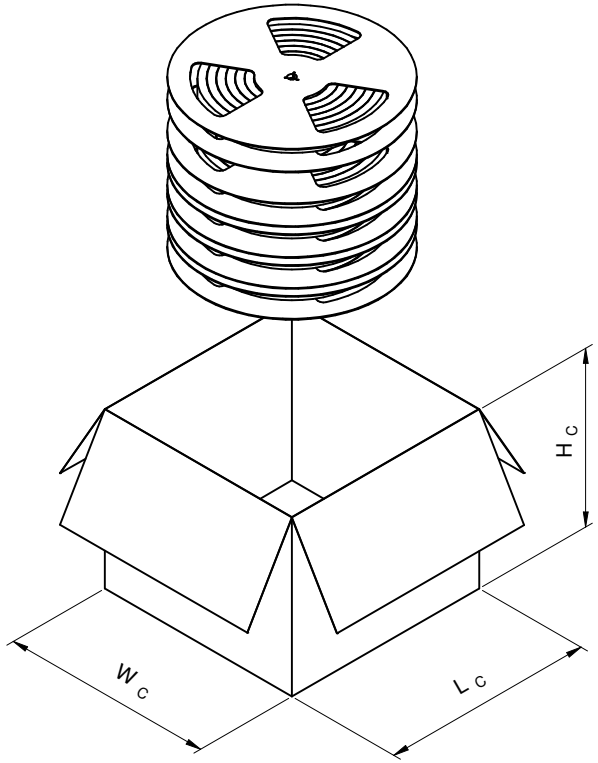
DESCRIPTION: **WR-COM USB 3.0 Horizontal SMT**

ORDER CODE: **692122030100**

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
Type A with Pegs	eiCan	Valid	3/7

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Packaging Specification - Carton: [mm]



L_C (mm)	W_C (mm)	H_C (mm)	No. of reel outer packaging	Packaging Unit	Material
typ.	typ.	typ.	reel.	pcs.	
350	350	290	5	1000	Paper

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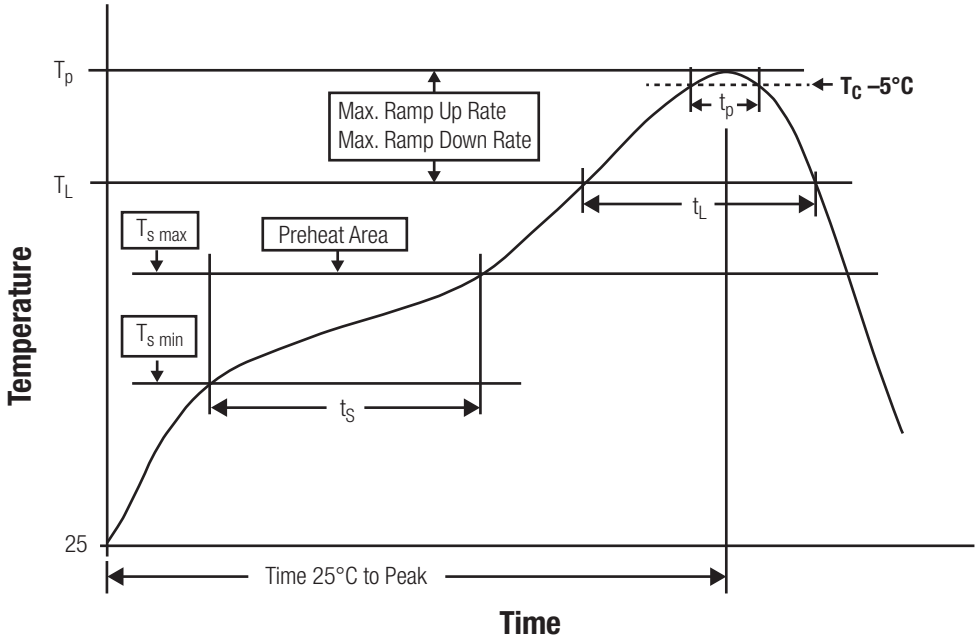
DESCRIPTION
WR-COM USB 3.0 Horizontal SMT

ORDER CODE
692122030100

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
Type A with Pegs	eiCan	Valid	4/7

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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min [1)]	$T_{s\ min}$	150 °C
Preheat Temperature Max	$T_{s\ max}$	200 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_P)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_p	see table
Time within 5°C of actual peak temperaure	t_p	20 - 30 seconds
Ramp-down Rate (T_L to T_P)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

1) refer to IPC/JEDEC J-STD-020D
refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature:

Properties	Volume mm³ <350	Volume mm³ 350-2000	Volume mm³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm [1)]	260 °C	260 °C	260 °C
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly I Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

1) refer to IPC/JEDEC J-STD-020D
refer to IPC/ JEDEC J-STD-020E

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FPe	001.002	2019-05-10	DIN ISO 2768-1m	

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WR-COM USB 3.0 Horizontal SMT

ORDER CODE
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SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
Type A with Pegs	eiCan	Valid	5/7

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Cautions and Warnings:

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

General:

- This electronic component is designed and developed with the intention for use in general electronics equipment.
- Before incorporating the components into any equipment in the field such as military, aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required or if there is possibility of direct damage or injury to human body, Wurth Elektronik must be asked for a written approval.
- In addition, even electronic component in general electronic equipment, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed by the user before usage.
- The connector is designed and manufactured to be used within the datasheet specified values.
- Do not use the connector outside the datasheet specifications.
- Prevent any damage or scratches on the connector, especially on the actuator.
- Direct mechanical impact to the product shall be prevented (e.g overlapping of the PCB´s).
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specification for standard products do also apply to customer specific products.
- Würth Elektronik products are qualified according to international standards which are listed into each product reliability report.All products characteristics are therefore given according to results obtained throughout these detailed test protocols. May any product characteristic be qualified by the customer, out of given Würth Elektronik specifications, Würth Elektronik cannot ensure its validity and sustainability over time.
- The Connectors are designed to be used along with Würth Elektronik counterparts and tools. Würth Elektronik cannot insure the reliability of these components while being used with other products.

Product Specific:

Soldering:

- The solder profile must comply with the Würth Elektronik technical soldering specification, otherwise this will void the warranty.
- Other soldering methods are not verified and have to be validated by the customer at his own risk.

Cleaning and Washing:

- Parts are not constructed for washing, so washing can cause malfunction afterwards.
- Cleaning agent that are used to clean the customer applications might damage or change the characteristics of the component, body, pins and termination.
- Please do not submerse our washable products into water or cleaning agents or put them in locations exposed to water completely.
- When cleaning by hand (brushing), please do not use excessive force on our connectors to avoid malfunction afterwards, because customer could deform function relevant areas.
- We recommended a solution without organic acid (preserve the plating against corrosion) volatile, without residues and compatible with the plastic.
- We recommend to perform tests and to let a part in immersion in the solution 8 to 12 hours and see if there is a degradation.

Storage Conditions:

- The Connectors are considered MSL1 into closed original packaging and are not subject to storage time limits regarding the moisture sensivity but all products shall be used before the end of the period of 12 months based on the products date code, if not 100% solderability can't be warranted.

Handling:

- Do not repeatedly operate the connector with excessive force. It may damage or deforms the contact dome which results in malfunction.
- In the case a product requires particular handling precautions, in addition to the general recommendations mentioned here before, these will appear on the product datasheet.

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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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71206415 865080457015 560112110188 64900221122 744393665015 140816144200 665102131822 714726110106 7443633300 782963560 810912012 74437529203220 830003237 830032817 971100477 636201040300 865230657014 744052002 74408942330 78438335033HT 860080275016 560112110239 74438334022 784773147 810913006 620307124022 686124183822 687750225002 64900821122 687640141002