

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension	Not Mount
1	IC1	1	—	LM5046MH/NOPB	Texas Instruments	PWM Controller	HTSSOP	9.7x6.4	
2	IC2	1	—	UCC27524DS	Texas Instruments	Low-Side Gate Driver	WSO	3.0x3.0	
3	IC3	1	—	TPS70933DRVR	Texas Instruments	Voltage Regulator	WSO	2.0x2.0	
4	IC4	1	—	TLVH431AQDBV	Texas Instruments	Shunt Regulator	SOT-23	2.9x2.8	
5	IC5	1	—	XC6133N18EMR-G	TOREX	Voltage Detector	SOT-26	2.9x2.8	
6	Q1,Q2,Q3,Q4	4	—	TPN1200APL	TOSHIBA	Power MOS FET	TSO Advance	3.3x3.3	
7	Q5,Q6,Q7,Q8	4	—	TPH3R70APL	TOSHIBA	Power MOS FET	SOP Advance	6.0x5.0	
8	Q9,Q11	2	—	SSM3K15ACT	TOSHIBA	MOS Transistor	CST3	1.0x0.6	
9	Q10	1	—	FCX690BTA	Diodes Incorporated	Power Transistor	SOT89	4.5x4.095	
10	Q12	1	—	2SC4116-Y(T85L,F)	TOSHIBA	NPN Transistor	SC-70	2.1x2.0	
11	Q13	1	—	2SA1586-Y(T85L,F)	TOSHIBA	PNP Transistor	SC-70	2.1x2.0	
12	D1	1	—	1SS352	TOSHIBA	Diode	USC	2.5 x 1.25	
13	D2,D7,D8,D9	4	—	DPLS1100-7	Diodes Incorporated	Schottky Barrier Diode	POWERDI®123	3.9x1.93	
14	D3,D4,D5,D6,D10,D11,D12,D13,D16,D17,D18,D19	12	—	CUS01	TOSHIBA	Schottky Barrier Diode	US-FLAT	2.5 x 1.25	
15	D14,D15	2	—	CMH01	TOSHIBA	Diode	M-FLAT	4.7x2.4	
16	D20	1	—	CRS10130B	TOSHIBA	Schottky Barrier Diode	S-FLAT	3.5x1.6	
17	D21	1	—	BZT52C11	Diodes Incorporated	Zener Diode	SOD123	3.85x1.7	
18	D22,D23,D24,D25,D26,D27,D29	7	—	CTS05F40	TOSHIBA	Schottky Barrier Diode	CST2	1.0x0.6	
19	D28	1	—	UDZVTE-17-10B	ROHM	Zener Diode	SOD-323FL	2.5x1.25	
20	DS1	1	—	TLP291(SE GR)	TOSHIBA	Photocoupler	11-3C1	7.0x2.6	
21	DS2,DS3	2	—	TLP2370	TOSHIBA	Photocoupler	SO6	7.0x3.7	
22	L1	1	0.47uH	FDVE0630-R47M	TOKO	±20%		7.4x6.7	
23	L2	1	3.3uH	74435580330	Würth Elektronik	29A		22.5x22.0	
24	L3	1	680uH	LPS5030-684MR	Coilcraft	±20%		4.8x4.8	
25	T1	1	1:150	53150C	Murata	10A,150Ω,50kHz-500kHz		8.3x7.2	
26	T2	1	5:2:2	750343691	Würth Elektronik	2250Vrms		37.34x35.56	
27	CN1,CN2,CN3	3	—	6834-0-00-15-00-00-03-0	Mill-Max	PRINTED CIRCUIT PINS			
28	CN4,CN5	2	—	8237-0-05-15-00-00-03-0	Mill-Max	PRINTED CIRCUIT PINS			
29	R1,R4,R7,R10,R13,R28,R34,R49,R50,R74,R75,R87,R90	13	10K			100mW,±5%	1005	1.0x0.5 (0402)	
30	R2,R5	2	10			250mW,±2%	3216	3.2 x 1.6 (1206)	
31	R3,R6,R8,R9,R11,R12,R24,R25,R26,R27,R30,R31,R32,R33	14	0			250mW	3216	3.2 x 1.6 (1206)	
32	R14	1	2.2			100mW,±5%	1608	1.6x0.8 (0603)	
33	R15	1	5.1K			100mW,±5%	1005	1.0x0.5 (0402)	
34	R16,R17,R18	3	6.8K			1W,±5%	6332	6.3x3.2 (2412)	
35	R19	1	240K			100mW,±1%	1005	1.0x0.5 (0402)	
36	R20	1	24K			100mW,±1%	1005	1.0x0.5 (0402)	
37	R21,R22,R44,R55,R97	5	1K			100mW,±5%	1005	1.0x0.5 (0402)	
38	R29,R35	2	15			1W,±5%	6332	6.3x3.2 (2412)	
39	R36	1	100K			250mW,±5%	2012	2.0x1.2 (0805)	
40	R37	1	1M			100mW,±5%	1005	1.0x0.5 (0402)	
41	R38,R40	2	100K			100mW,±5%	1005	1.0x0.5 (0402)	
42	R39	1	20			500mW,±5%	3225	3.2x2.5 (1210)	
43	R41	1	220K			100mW,±5%	1005	1.0x0.5 (0402)	
44	R42	1	2.49K			63mW,±0.5%	1005	1.0x0.5 (0402)	
45	R43	1	1.6K			63mW,±0.5%	1005	1.0x0.5 (0402)	
46	R45	1	8.2			500mW,±1%	2012	2.0x1.2 (0805)	
47	R46	1	3.3K			63mW,±0.5%	1005	1.0x0.5 (0402)	
48	R47	1	110K			63mW,±0.5%	1005	1.0x0.5 (0402)	
49	R48	1	16K			63mW,±0.5%	1005	1.0x0.5 (0402)	
50	R51	1	27K			63mW,±0.5%	1005	1.0x0.5 (0402)	
51	R52,R65,R70,R71,R72,R73	6	0			100mW	1005	1.0x0.5 (0402)	
52	R53,R54	2	20K			63mW,±0.5%	1005	1.0x0.5 (0402)	
53	R56	1	330			100mW,±5%	1005	1.0x0.5 (0402)	
54	R59	1	49.9			63mW,±1%	1005	1.0x0.5 (0402)	
55	R60	1	1.2K			63mW,±0.5%	1005	1.0x0.5 (0402)	
56	R61	1	18K			63mW,±0.5%	1005	1.0x0.5 (0402)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension	Not Mount
57	R63	1	2.2K			63mW,±0.5%	1005	1.0x0.5 (0402)	
58	R66,R68	2	1K			63mW,±1%	1005	1.0x0.5 (0402)	
59	R67,R69	2	910			63mW,±1%	1005	1.0x0.5 (0402)	
60	R77	1	470			100mW,±5%	1005	1.0x0.5 (0402)	
61	R78	1	1.2K			63mW,±1%	1005	1.0x0.5 (0402)	
62	R79	1	2.2K			100mW,±5%	1005	1.0x0.5 (0402)	
63	R80	1	1			100mW,±5%	1005	1.0x0.5 (0402)	
64	R89	1	7.5K			63mW,±0.5%	1005	1.0x0.5 (0402)	
65	C1,C2,C3,C4	4	10uF			Ceramic,100V,±10%	3225	3.2x2.5 (1210)	
66	C5,C7,C12,C20,C31,C32,C34,C36,C40,C41,C44,C46,C48	13	100nF			Ceramic,25V,±10%	1005	1.0x0.5 (0402)	
67	C6	1	470nF			Ceramic,100V,±10%	3216	3.2 x 1.6 (1206)	
68	C8	1	2.2uF			Ceramic,25V,±10%	2012	2.0x1.2 (0805)	
69	C9,C11,C14,C29,C43,C45	6	1uF			Ceramic,25V,±10%	1608	1.6x0.8 (0603)	
70	C10	1	1uF			Ceramic,50V,±10%	2012	2.0x1.2 (0805)	
71	C13	1	2.2uF			Ceramic,10V,±10%	1005	1.0x0.5 (0402)	
72	C15,C16	2	10uF			Ceramic,25V,±10%	2012	2.0x1.2 (0805)	
73	C17,C18	2	470pF			Ceramic,100V,±10%	2012	2.0x1.2 (0805)	
74	C19	1	220nF			Ceramic,100V,±10%	2012	2.0x1.2 (0805)	
75	C21,C22,C23,C24,C25,C26,C27	7	22uF			Ceramic,25V,±20%	3225	3.2x2.5 (1210)	
76	C28	1	100nF			Ceramic,100V,±10%	1608	1.6x0.8 (0603)	
77	C30	1	100pF			Ceramic,50V,±5%	1005	1.0x0.5 (0402)	
78	C33	1	22nF			Ceramic,25V,±10%	1005	1.0x0.5 (0402)	
79	C35	1	10nF			Ceramic,25V,±10%	1005	1.0x0.5 (0402)	
80	C42	1	1500pF			Ceramic,2kV,±10%	4520	4.5x2.0 (1808)	
81	C47	1	1nF			Ceramic,50V,±10%	1005	1.0x0.5 (0402)	
82	DP1,DP2,DP3,DP4,DP5,DP6,DP7,DP8,DP9,DP10,DP11,DP12,DP13,DP14,DP15,DP16,DP17,DP18,DP19,DP20,DP21,DP31,DP32,DP34,DP35,DP41,DP42,DP44,DP45	29	—			Test Pad			
901	R57	1	10K			100mW,±5%	1005	1.0x0.5 (0402)	Not Mount
902	R58	1	620			63mW,±1%	1005	1.0x0.5 (0402)	Not Mount
903	R62	1	182			63mW,±1%	1005	1.0x0.5 (0402)	Not Mount
904	R64,R91	2	0			100mW	1005	1.0x0.5 (0402)	Not Mount
905	R88	1	9.1			100mW,±5%	1005	1.0x0.5 (0402)	Not Mount
906	R92,R93,R94,R95,R96	5	750			500mW,±1%	3225	3.2x2.5 (1210)	Not Mount
907	C37	1	100pF			Ceramic,50V,±5%	1005	1.0x0.5 (0402)	Not Mount
908	C38,C39	2	15nF			Ceramic,25V,±10%	1005	1.0x0.5 (0402)	Not Mount

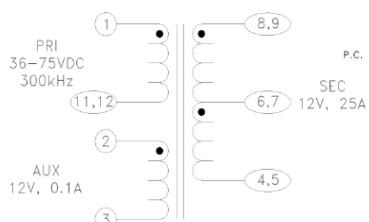
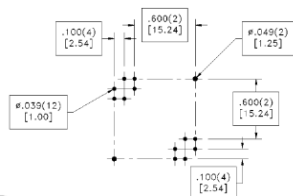
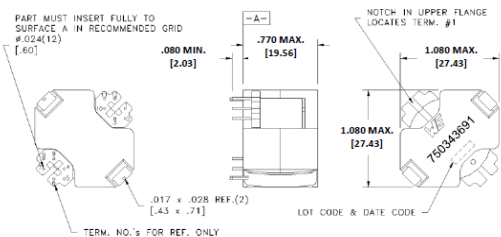
CUSTOMER TERMINAL	RoHS	LEAD(Pb)-FREE
Sn 96%, Ag 4%	Yes	Yes

more than you expect



# ELECTRICAL SPECIFICATIONS @ 25° C unless otherwise noted:

PARAMETER	TEST CONDITIONS	VALUE
D.C. RESISTANCE	1-12 tie(11+12), @20°C	8mohms max.
D.C. RESISTANCE	6-8 tie(6+7,8+9), @20°C	6mohms max.
D.C. RESISTANCE	6-5 tie(6+7,4+5), @20°C	6mohms max.
D.C. RESISTANCE	2-3 @20°C	70mohms max.
INDUCTANCE	1-12 tie(11+12), 300kHz, 100mV, Ls	110.00µH min.
DIELECTRIC	6-12 tie(11+12,1+2,6+7), 2500V/AC, 1 second	2250V/AC, 1 minute
URNS RATIO	(1-11,12):(8,9-6,7)	2.5:1, ±2%
URNS RATIO	(1-11,12):(6,7-4,5)	2.5:1, ±2%
URNS RATIO	(1-11,12):(2-3)	2.5:1, ±2%



RECOMMENDED  
P.C. PATTERN, COMPONENT SIDE

## GENERAL SPECIFICATIONS:

OPERATING TEMPERATURE RANGE: -40°C to +125°C including temp rise.

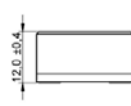
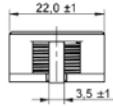
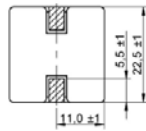
Application of the transformer allows for the leadwires between terminals 4&5, 6&7, 8&9 and 11&12 to solder bridge.

Customer to tie terminals 4+5, 6+7, 8+9 and 11+12 on PC board.

Wire insulation & RoHS status not affected by wire color. Wire insulation color may vary depending on availability.

DFM	Packaging Specifications	Tolerances unless otherwise specified:	DRAWING TITLE	PART NO.
DATE	Method: Tray	Angles: ±1°	TRANSFORMER	750343691
ENG	PKG-0239	Decimals: ±.005 [.13]		
REV.	01	Fractions: ±1/64		
DATE	11/10/2017	Footprint: ±.001 [.03]	This drawing is dual dimensioned. Dimensions in brackets are in millimeters.	SPECIFICATION SHEET 1 OF 1

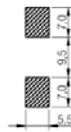
## A Dimensions: [mm]



Scale - 1:1

Reference on drawing	Description
Marking	X YMOD X
Internal Marking	X (may be changed)
Date code	YMOD

## B Recommended land pattern: [mm]



Scale - 1:1

## C Schematic:



REV	DATE	BY	CHECKED
1.0	2014-12-09	SS	BD



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www.we-online.com  
eGmbH@we-online.com

## DESCRIPTION

## WE-HCI SMD Flat Wire High Current Inductor

Order - No.

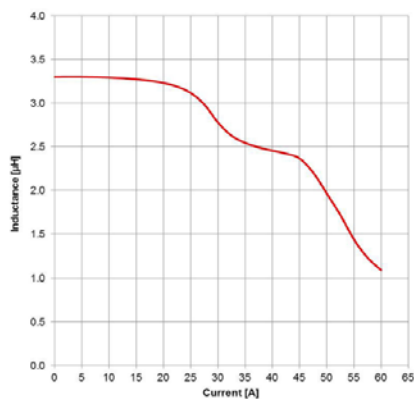
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Size: 2212

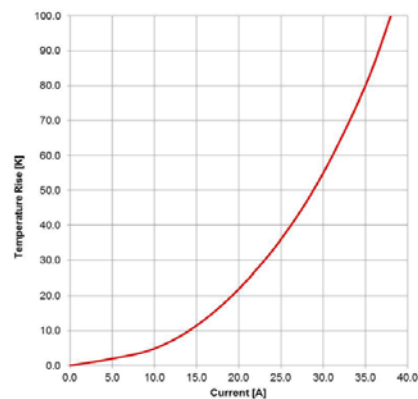
SIZE  
A4

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 eGmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. Würth Elektronik eGmbH & Co KG must be informed about the intent of such usage before the design is 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.

## F1 Typical Inductance vs. Current Characteristics:



## F2 Typical Temperature Rise vs. Current Characteristics:



REV	DATE	BY	CHECKED
1.0	2014-12-09	SS	BD



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## DESCRIPTION

## WE-HCI SMD Flat Wire High Current Inductor

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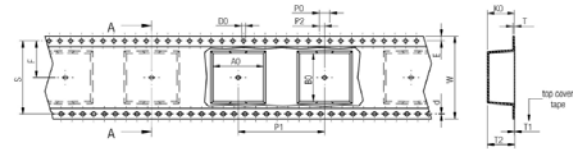
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Size: 2212

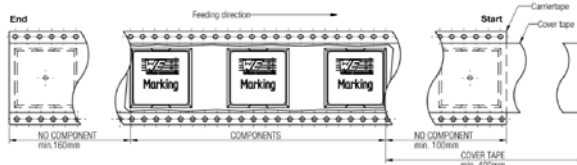
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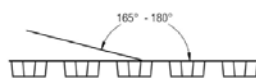
## G Packaging Specification - Tape and Reel [mm]:



	A0	B0	W	T	T1	T2	K0	d	D0	E	F	P0	P1	P2	Tape	VPE / packaging unit
tolerance	typ.	typ.	± 0.3	± 0.05	typ.	max.	typ.	± 0.05	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1		
1890	18.40	18.80	32.00	0.40	0.05	11.10	10.50	0.20	1.50	1.75	28.40	14.20	4.00	32.00	2.00	Polystyrene
2212	22.50	23.00	44.00	0.50	0.05	12.80	12.70	0.20	1.50	1.75	40.40	20.20	4.00	32.00	2.00	Polystyrene



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



	Pull-off force
Tape width 32 mm	0.1 N - 1.3 N
44 mm	0.1 N - 1.3 N

REV	DATE	BY	CHECKED
1.0	2014-12-09	SS	BD

Projection

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DESCRIPTION

**WE-HCI SMD Flat Wire High Current Inductor**

Order - No.  
**74435580330**

Size: 2212

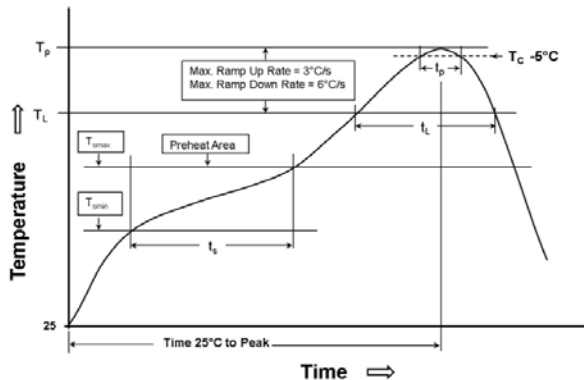
COMPLIANT  
**RoHS&REACH**  
WÜRTH ELEKTRONIK

SIZE  
M

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## H Soldering Specifications:

## H1: Classification Reflow Profile for SMT components:



## H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat	150°C
- Temperature Min ( $T_{min}$ )	200°C
- Temperature Max ( $T_{max}$ )	60-120 seconds
- Time ( $t_p$ ) from ( $T_{min}$ ) to ( $T_{max}$ )	
Ramp-up rate ( $T_L$ to $T_p$ )	3°C/second max.
Liquidous temperature ( $T_L$ )	217°C
Time ( $t_L$ ) maintained above $T_L$	60-150 seconds
Peak package body temperature ( $T_p$ )	See Table H3
Time within 5°C of actual peak temperature ( $T_p$ )	20-30 seconds
Ramp-down rate ( $T_p$ to $T_L$ )	6°C/second max.
Time 25°C to peak temperature	8 minutes max.

refer to IPC/JEDEC J-STD-0200

## H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm <sup>3</sup>	Volume mm <sup>3</sup>	Volume mm <sup>3</sup>
		<350	350 - 2000	>2000
PB-Free Assembly	< 1.6 mm	260°C	260°C	260°C
PB-Free Assembly	1.6 - 2.5 mm	260°C	260°C	245°C
PB-Free Assembly	> 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-0200

REV	DATE	BY	CHECKED
1.0	2014-12-09	SS	BD

Projection

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DESCRIPTION

**WE-HCI SMD Flat Wire High Current Inductor**

Order - No.  
**74435580330**

Size: 2212

COMPLIANT  
**RoHS&REACH**  
WÜRTH ELEKTRONIK

SIZE  
M

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## I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-HCI 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 wire isolation 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 core, wire and 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 core, wire and 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.

Cleaning agents that are used to clean the customer application might damage or change the characteristics of the component, body, pins or termination.

Direct mechanical impact to the product shall be prevented as the core material could flake or in the worst case it could break.

### Product specific:

Follow all instructions mentioned in the data sheet, especially:

- The soldering profile has to be complied with according to the technical reflow 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 nominal rated current will void the warranty.
- Due to heavy weight of the components of size 2212, strong forces and high accelerations might have the effect to damage the electrical connection or to harm the circuit board and will void the warranty.

The general and product specific cautions comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable; however, no responsibility is assumed for inaccuracies or incompleteness.



				Projection		DESCRIPTION	
						WE-HCI SMD Flat Wire High Current Inductor	
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waisenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		Order - No.	SIZE
						74435580330	AA
						Size: 2212	
1.0	2014-12-09	SS	BD				
REV	DATE	BY	CHECKED				

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 eiSos GmbH & Co. KG products are neither designed nor intended for use in areas such as military, 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 & Co. KG must be informed about the intent of such usage before the design is made. 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.

## J 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 useful 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](http://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 Sect on 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](http://www.we-online.com).



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