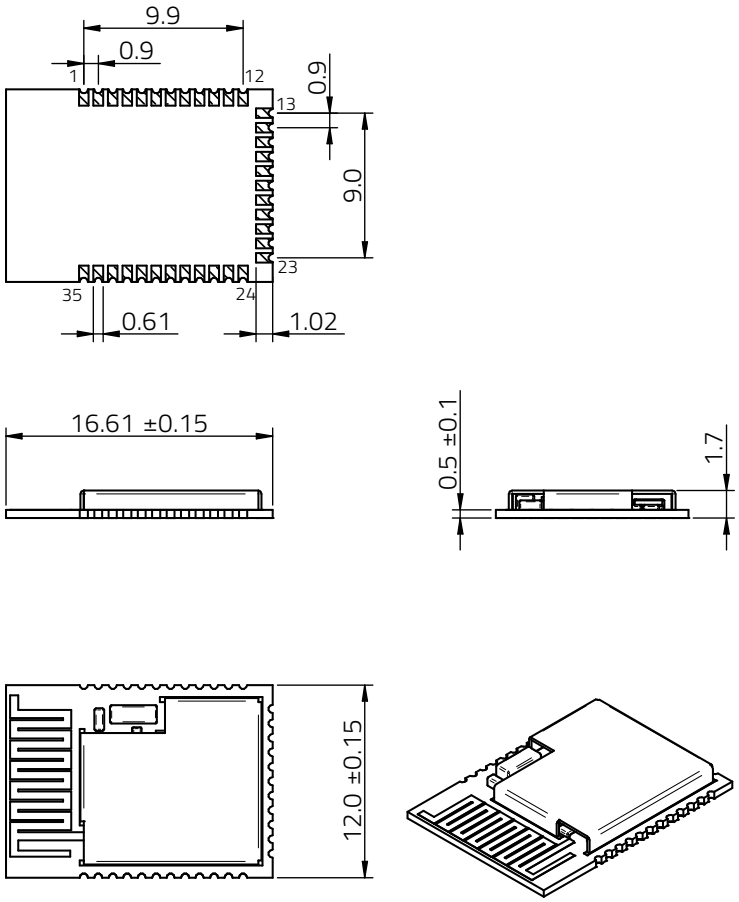
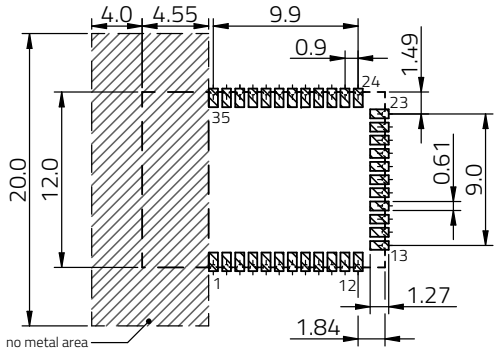
Dimensions: [mm]



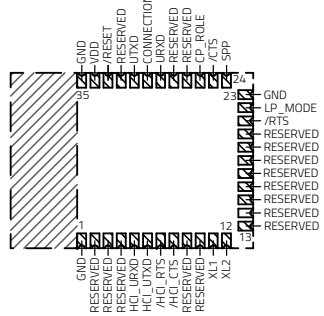
Scale - 2:1

Recommended Land Pattern: [mm]



Scale - 2:1

Product Specific Pinning:



Scale - 2:1

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CVP	001.000	2025-02-04	DIN ISO 2768-1m	

DESCRIPTION
WIRL-COMB Bluetooth® Classic and Bluetooth® LE version 5.4

ORDER CODE
2620011024000

BUSINESS UNIT	STATUS	PAGE
eiSmart	Valid	1/8

General Properties - Bluetooth® Classic and Bluetooth® LE:

Properties		Value	Unit
Communication Protocol/ Standard	RF_{prot}	Bluetooth® Classic & Bluetooth® Low Energy 5.4	
Antenna Connector Type	ANT_{Conn}	Integrated PCB (integrated PCB antenna)	
Microcontroller	µC	SoC	
Radio Chipset	RF-IC	CYW20819	
Memory Size (Flash)		256	kB
Memory Size (RAM)		176	kB
Interface 1	IO_1	UART	
Interface 1 Default Baudrate	$IO_{1\ Baudrate}$	115200	Bd

General Properties - Bluetooth® Classic:

Radio channel min.	0
Radio channel max.	78

General Properties - Bluetooth® LE:

Radio channel min.	0
Radio channel max.	39

Electrical Properties -Bluetooth® Classic and Bluetooth® LE:

Properties		Test conditions	Value			Unit
			min.	typ.	max.	
Operating supply voltage	V_{DD}	TAMB = 25 °C, RH = 60 %	1.71	3	3.3	V
Supply Current Sleep	I_{sleep}	VDD = 3 V, TAMB = 25 °C, RH = 60 %		1.8		µA

RF-Electrical Properties - Bluetooth® Classic:

Properties		Test conditions	Value	Unit
Frequency min.	$f_{min.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %	2402	MHz
Frequency max.	$f_{max.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %	2480	MHz
Line of Sight Range		Basic Rate (BR)	350	m
RF Bitrate max.	$R_{b,\ max.}$	BR	1	Mbps
RF Bitrate max.	$R_{b\ max.}$	Enhanced Data Rate (EDR)	3	Mbps
Supply Current Transmitting	I_{TX}	VDD = 3 V, TAMB = 25 °C, RH = 60 %, BR 1 Mbps	10.4	mA
Supply Current Transmitting	I_{TX}	VDD = 3 V, TAMB = 25 °C, RH = 60 %, EDR 2 Mbps & 3 Mbps	13.2	mA
Supply Current Receiving	I_{RX}	VDD = 3 V, TAMB = 25 °C, RH = 60 % BR 1 Mbps, DH1	4.8	mA
Supply Current Receiving	I_{RX}	VDD = 3 V, TAMB = 25 °C, RH = 60 %, EDR 2 Mbps & 3 Mbps	5.1	mA
Output Power e.r.p.	$P_{Tx,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, BR 1 Mbps	2.4	dBm
Output Power e.r.p.	$P_{Tx,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, EDR 2 Mbps	0.8	dBm
Output Power e.r.p.	$P_{Tx,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, EDR 3 Mbps	1.1	dBm
RX sensitivity e.r.p.	$Rx_{sens,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, BR 1 Mbps, DH1, 0.1% BER	-91	dBm
RX sensitivity e.r.p.	$Rx_{sens,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, EDR 2 Mbps, 2-DH1, 0.1% BER	-92	dBm
RX sensitivity e.r.p.	$Rx_{sens,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, EDR 3 Mbps, 3-DH1, 0.1% BER	-87	dBm

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DESCRIPTION
WIRL-COMB Bluetooth® Classic and Bluetooth® LE version 5.4

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BUSINESS UNIT	STATUS	PAGE
eiSmart	Valid	2/8

RF-Electrical Properties - Bluetooth® LE:

Properties		Test conditions	Value	Unit
Frequency min.	$f_{min.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %	2402	MHz
Frequency max.	$f_{max.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %	2480	MHz
Line of Sight Range		1 Mbps , Two-ray ground-reflection model, antenna height = 2 m	400	m
RF Bitrate max.	$R_{b\ max.}$		2	Mbps
Supply Current Transmitting	I_{TX}	VDD = 3 V, TAMB = 25 °C, RH = 60 %, 1 Mbps & 2 Mbps	10.4	mA
Supply Current Receiving	I_{RX}	VDD = 3 V, TAMB = 25 °C, RH = 60 %, 1 Mbps	6.4	mA
Supply Current Receiving	I_{RX}	VDD = 3 V, TAMB = 25 °C, RH = 60 %, 2 Mbps	5.8	mA
Output Power e.r.p.	$P_{Tx,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, 1 Mbps	3	dBm
Output Power e.r.p.	$P_{Tx,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, 2 Mbps	2.6	dBm
RX sensitivity e.r.p.	$Rx_{sens,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, 1 Mbps, 0.1% BER	-94	dBm
RX sensitivity e.r.p.	$Rx_{sens,\ e.r.p.}$	VDD = 3 V, TAMB = 25 °C, RH = 60 %, 2 Mbps, 0.1% BER	-90	dBm

Additional General Information:

Operating Temperature	-30 °C up to +85 °C
Storage Conditions (in original packaging)	< 40 °C ; < 85 % rH
Moisture Sensitivity Level (MSL)	3

Pin	Module Pad	Description	I/O
1	GND	Ground	Supply
2	RESERVED	µC GPIO - not addressable via Skoll-I firmware, shall be soldered but electrically unconnected	—
3	RESERVED	µC GPIO - not addressable via Skoll-I firmware, shall be soldered but electrically unconnected	—
4	RESERVED	µC GPIO - not addressable via Skoll-I firmware, shall be soldered but electrically unconnected	—
5	HCI_URXD	HCI UART RX	Input
6	HCI_UTXD	HCI UART TX	Output
7	/HCI_RTS	HCI UART RTS	Output
8	/HCI_CTS	HCI UART CTS, connect to external pull-up.	Input
9	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
10	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
11	XL1	Connect to external oscillator (32.768 kHz)	Output
12	XL2	Connect to external oscillator (32.768 kHz)	Input
13	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
14	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
15	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
16	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
17	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
18	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—

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DESCRIPTION
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ORDER CODE
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BUSINESS UNIT	STATUS	PAGE
eiSmart	Valid	3/8

Pin	Module Pad	Description	I/O
19	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
20	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
21	/RTS	Application UART RTS. Solder but leaveelectrically unconnected, if not needed	Output
22	LP_MODE	Disable low power mode.Connect to pull-up, pull-down or microcontroller to avoid floating state.	Input
23	GND	Ground	Supply
24	SPP	Enter SPP data mode. Solder but leaveelectrically unconnected, if not needed.	I/O
25	/CTS	Application UART CTS. Solder but leaveelectrically unconnected, if not needed	Input
26	CP_ROLE	GAP role selection. Solder but leaveelectrically unconnected, if not needed.	I/O
27	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
28	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
29	URXD	GAP role selection. Solder but leaveelectrically unconnected, if not needed.	Input
30	CONNECTION	Connection status. Solder but leaveelectrically unconnected, if not needed.	Output
31	UTXD	Application UART TX	Output
32	RESERVED	µC GPIO - not addressable via Skoll-Ifirmware, shall be soldered but electricallyunconnected	—
33	/RESET	Reset pin, active low, connect to externalpull-up	Input
34	VDD	Supply voltage	Supply
35	GND	Ground	Ground

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
For regulatory compliance certifications refer to the product user manual	

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DESCRIPTION
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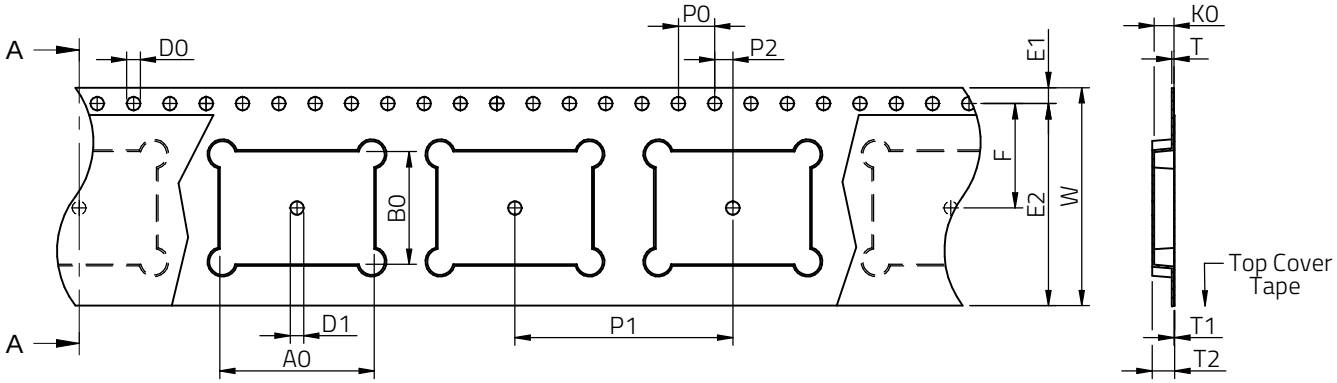
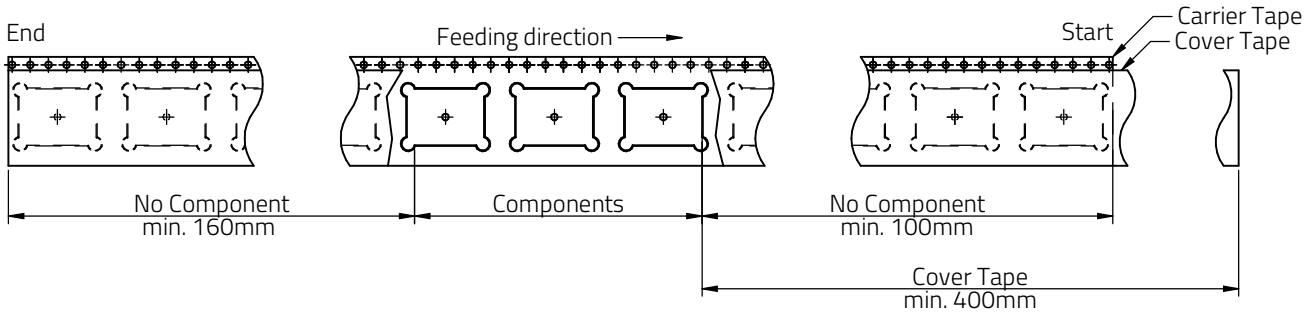
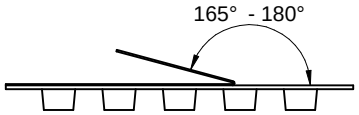
Packaging Specification - Tape: [mm]





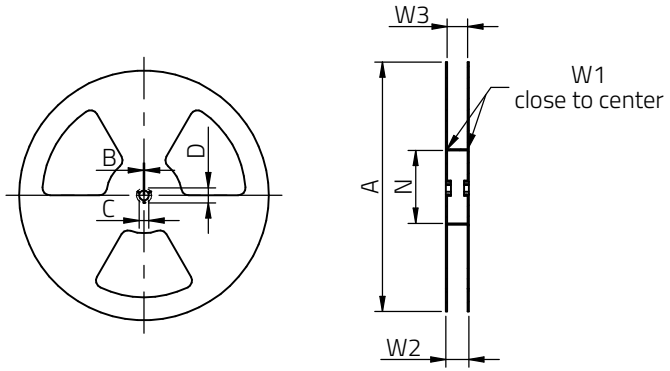
Packaging is referred to the international standard IEC 60286-3:2019

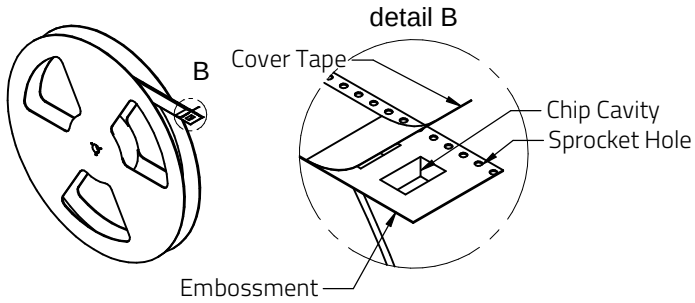
	Tape Type	A0 (mm)	B0 (mm)	W (mm)	T (mm)	T1 (mm)	T2 (mm)	K0 (mm)	P0 (mm)	P1 (mm)	P2 (mm)	D0 (mm)	D1 (mm)	E1 (mm)	E2 (mm)	F (mm)	Material	Qty. (pcs.)
Tolerance		±0.1	±0.1	+0.3/ -0.3	ref.	ref.	typ.	typ.	±0.1	±0.1	±0.1	+0.1/ -0.0	min.	±0.1	min.	±0.1		
Value	2a	17.00	12.40	24	0.3	0.1	2.7	2,3	4	24	2	1.5	1.5	1.75	22.25	11.5	Polystyrene	500



		Pull-off force
Tape width	24 mm	0,1 N - 1,3 N

Packaging Specification - Reel: [mm]





	A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
Tolerance	± 2.0	min.	min.	min.	typ.	+ 2.0	max.	min.	max.	
Value	330.00	1.50	12.80	20.20	100.00	24.40	30.40	23.90	27.40	Polystyrene

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CVP	001.000	2025-02-04	DIN ISO 2768-1m	

DESCRIPTION
WIRL-COMB Bluetooth® Classic and Bluetooth® LE version 5.4

ORDER CODE
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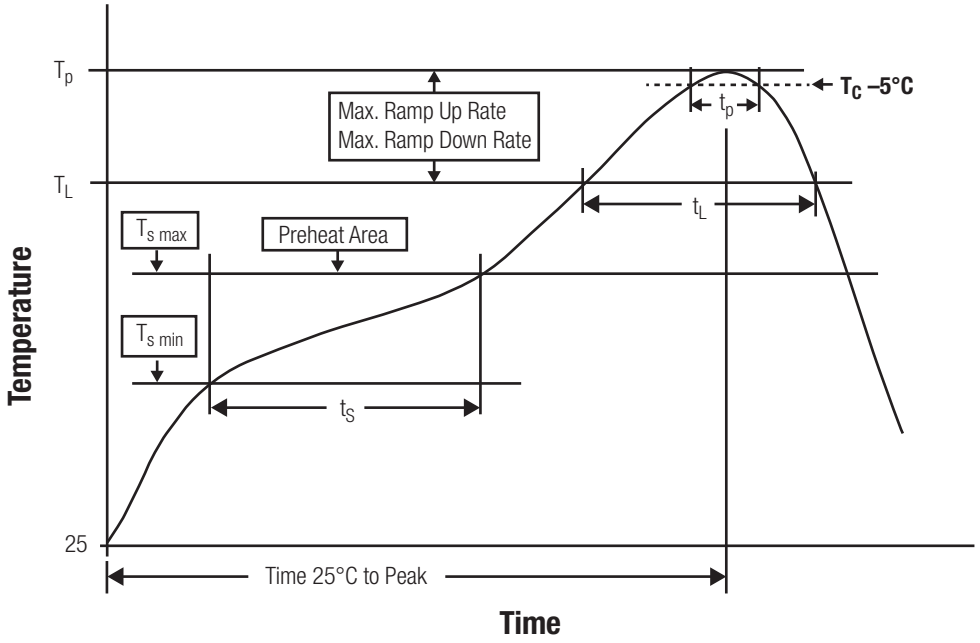
eiSmart	Valid	5/8

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	$T_{s\ min}$	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	260 °C
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-020E

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BUSINESS UNIT	STATUS	PAGE
eiSmart	Valid	6/8

Cautions and Warnings:

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

General:

- This electronic component is designed and developed with the intention for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any equipment in fields 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 and/or if there is the possibility of direct damage or human injury.
- Electronic components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions specified in the datasheet are not met, the wire insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth Elektronik does not guarantee any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and sustainability over time.
- 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 specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- All other soldering methods are at the customer's own risk.

Cleaning and Washing:

- Washing agents used during the production to clean the customer application might damage or change the characteristics of the component. Washing agents may have a negative effect on the long-term functionality of the product.
- Using a brush during the cleaning process could break the module. Therefore, we do not recommend using a brush during the PCB cleaning process.

Potting and Coating:

- If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking could lead to an incomplete seal, allowing contaminants into the component. Expansion could damage components. We recommend a manual inspection after potting to avoid these effects.
- Conformal coating or potting results in loss of warranty.
- The RF shield will not protect the part from low-viscosity coatings and potting. An undefined amount of coating and potting will enter inside the shielding.
- Conformal coating and potting will influence the parts of the radio front end and consequently influence the radio performance.
- Potting will influence the temperature behaviour of the device. This might be critical for components with high power.

Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- If there is a moisture sensitive component, the storage condition in the original packaging is defined according to IPC/JEDEC-J-STD-033. It is also recommended to return the component to the original moisture proof bag and reseal the moisture proof bag again.
- ESD prevention methods need to be followed for manual handling and processing by machinery.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

Packaging:

- The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

Handling:

- Violation of the technical product specifications such as exceeding the nominal rated current, will void the warranty.
- Violation of the technical product specifications such as but not limited to exceeding the absolute maximum ratings will void the conformance to regulatory requirements.
- The edge castellation is designed and made for prototyping, i.e. hand soldering purposes only.
- Non-antenna modules must be equipped with a proper antenna having specific characteristics.
- The applicable country regulations and specific environmental regulations must be observed.
- Do not disassemble the product. Evidence of tampering will void the warranty.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component.The operating temperature of the component shall not exceed the maximum temperature specified.

These cautions and warnings 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.

All topics are described in a more detailed manner in the manual for each product.

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DESCRIPTION
WIRL-COMB Bluetooth® Classic and Bluetooth® LE version 5.4

ORDER CODE
2620011024000

BUSINESS UNIT	STATUS	PAGE
eiSmart	Valid	7/8

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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CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
CVP	001.000	2025-02-04	DIN ISO 2768-1m	

DESCRIPTION
WIRL-COMB Bluetooth® Classic and Bluetooth® LE version 5.4

ORDER CODE
2620011024000

BUSINESS UNIT	STATUS	PAGE
eiSmart	Valid	8/8