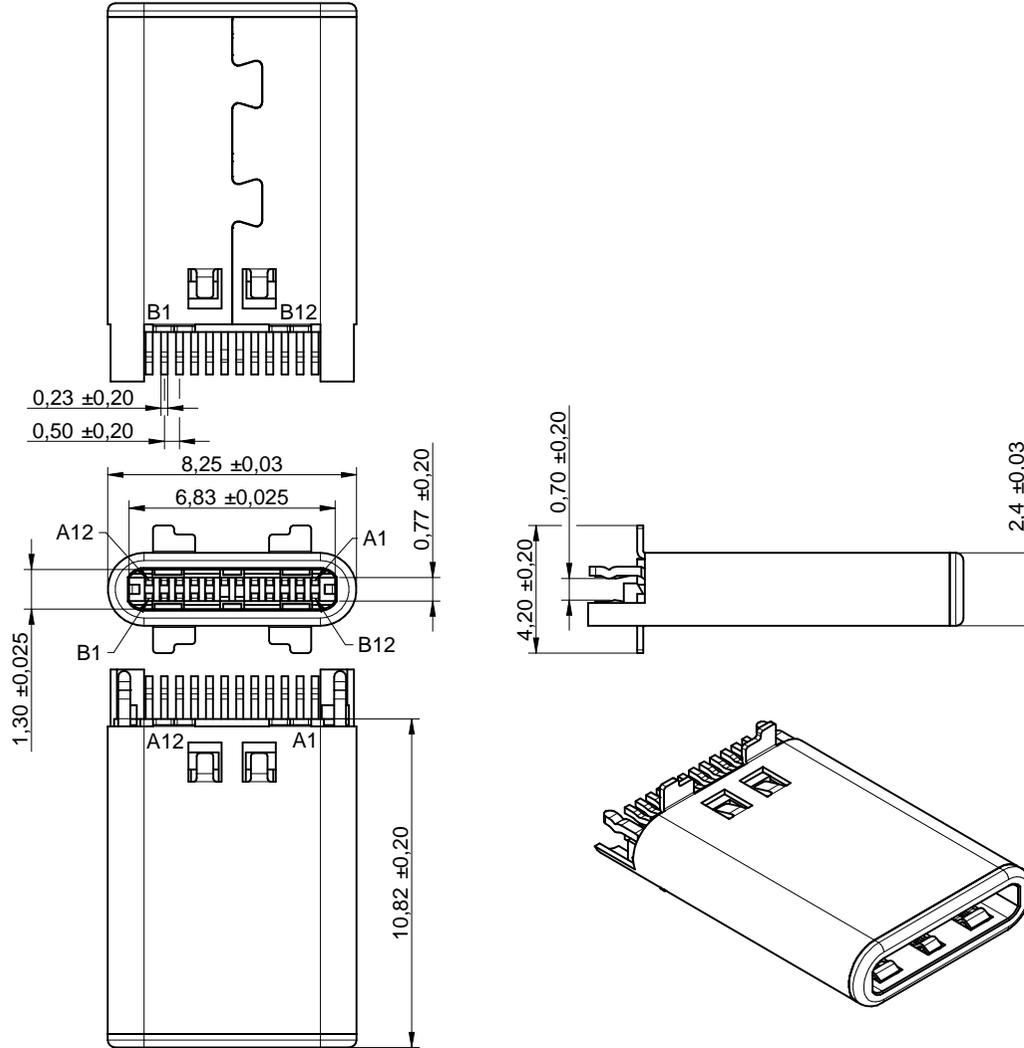
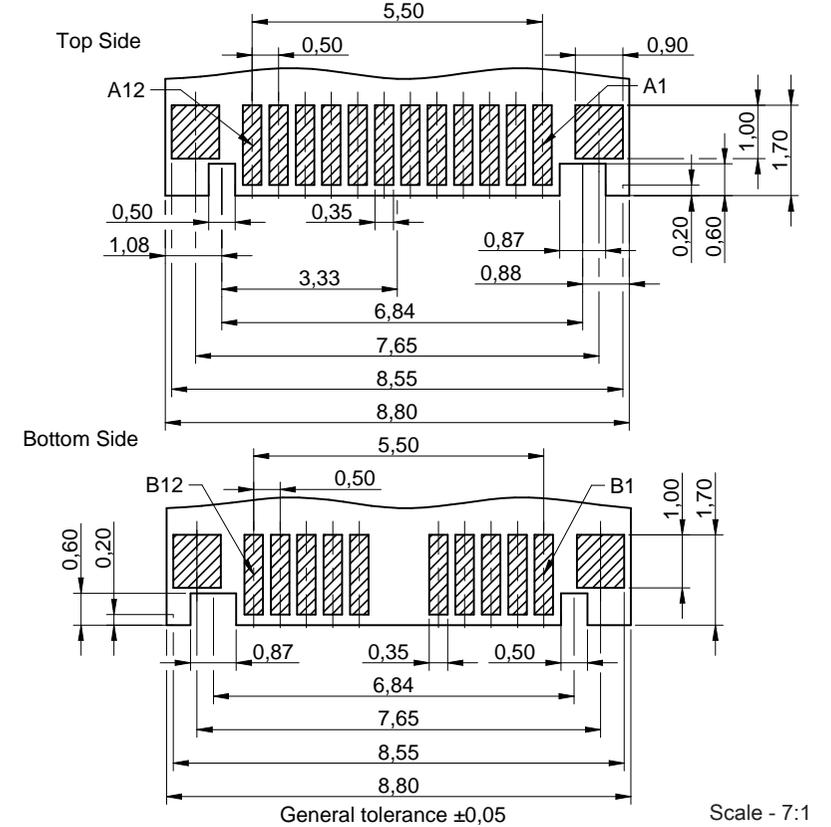


Dimensions: [mm]



Recommended Land Pattern: [mm]



Article Properties:

Properties	Value	Unit
Recommended PCB Thickness	0.8	mm
Pins	22	

Note: We recommend to keep the cap on the plug during reflow process.

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DESCRIPTION USB 3.1 Type C Plug Horizontal SMT WR-COM				ORDER CODE 632712000011	
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Pin Assignment

Pin Number	Signal Name	Pin Number	Signal Name
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	VBUS	B9	VBUS
A5	CC	B8	SBU2
A6	Dp1	B7	-
A7	Dn1	B6	-
A8	SBU1	B5	VCONN
A9	VBUS	B4	VBUS
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND
Shell	Shield		

Kind Properties:

Quality Class	10 000 Mating cycles
Connector Type	USB 3.1 Type C
Gender	Male Plug
Type	Horizontal

Material Properties:

Color	Black
Insulator Material	LCP
Insulator Flammability Rating	UL94-V0
Contact Material	Copper Alloy
Contact Plating	2µ" Gold over 30µ" Pd-Ni
Cover Material	Steel
Cover Plating	Nickel
Contact Type	Stamped

General Properties:

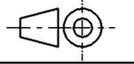
Operating Temperature	-25 °C up to +105 °C
Compliance	RoHS

Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Rated Current		I _R	5	A	max.
Working Voltage			20	V (DC)	
Withstanding Voltage	1 min		100	V (AC)	
Contact Resistance		R	30	mΩ	max.
Insulation Resistance		R _{ISO}	1000	MΩ	min.

Rated Current

Contacts	Value	Unit	Tol.	Configuration
A1,A12,B1,B12	5.00	A	max.	All connected together
A4,A9,B4,B9	5.00	A	max.	All connected together
A5,B5	1.25	A	max.	
Other	0.25	A	max.	

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Standard:

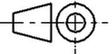
UL Approval	E323964
TID Listed	Yes

Mechanical Properties:

Properties	Value	Unit	Tol.
Insertion Force min.	5	N	min.
Insertion Force max.	8	N	max.
Extraction Force min.	8	N	min.
Extraction Force max.	20	N	max.

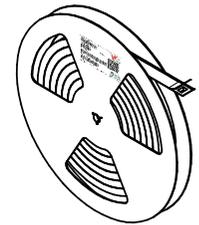
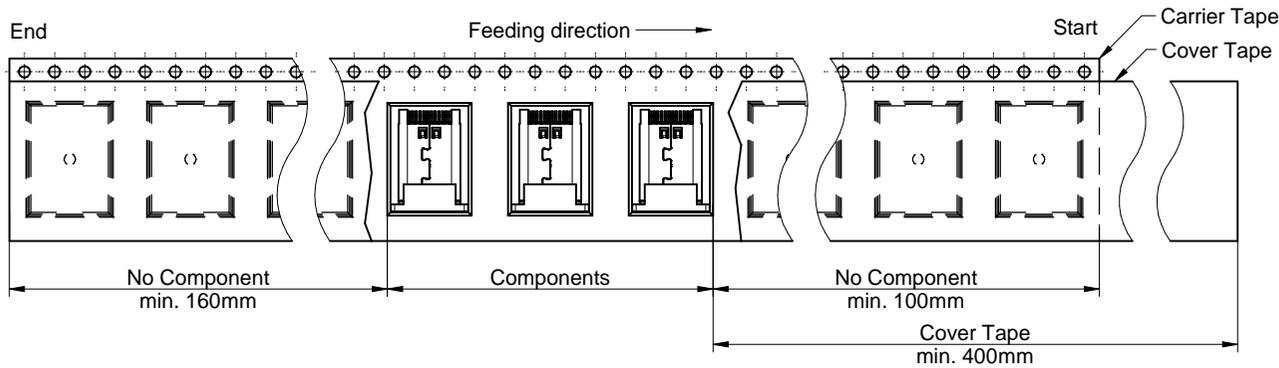
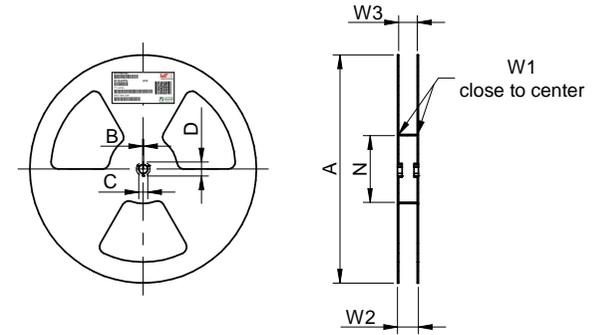
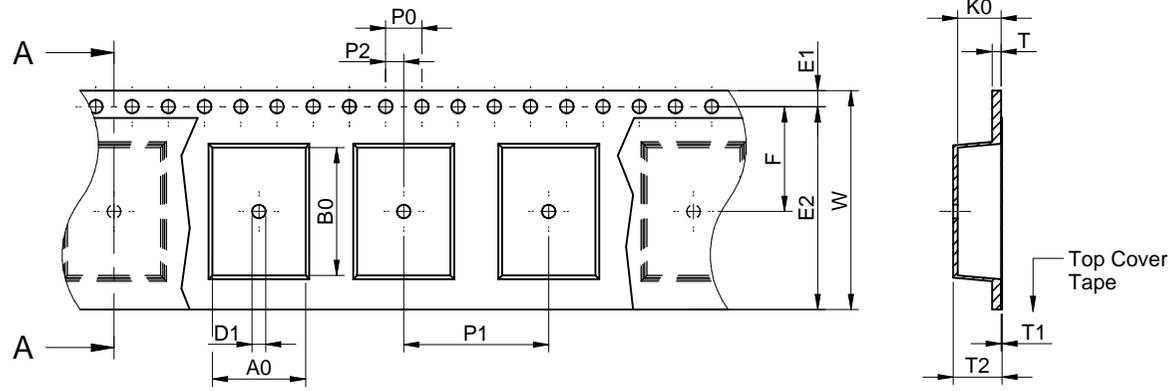
Packaging Properties:

Packaging	Tape and Reel with Cap
	Tape & Reel not for pick & place machine.

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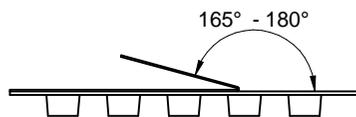
Packaging Specification - Tape and Reel: [mm]



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

	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape Type 2a	VPE / packaging unit
Tolerance	typ.	typ.	+0,3 / -0,1	max	max	max	typ.	±0,1	±0,1	±0,1	+0,1 / -0,0	min.	±0,1	min.	±0,1		pcs.
Part Number	632712000011	10,30	14,00	24,00	0,60	0,10	5,80	4,80	4,00	16,00	2,00	1,50	1,75	22,25	11,50	Polystyrene	800

	A	B	C	D	N	W1	W2	W3	W3
Tolerance	± 2,0	min.	min.	min.	± 2,0	+ 2	max.	min.	max.
Tape width	24mm	330,00	1,50	12,80	20,20	60,00	24,40	30,40	23,90



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

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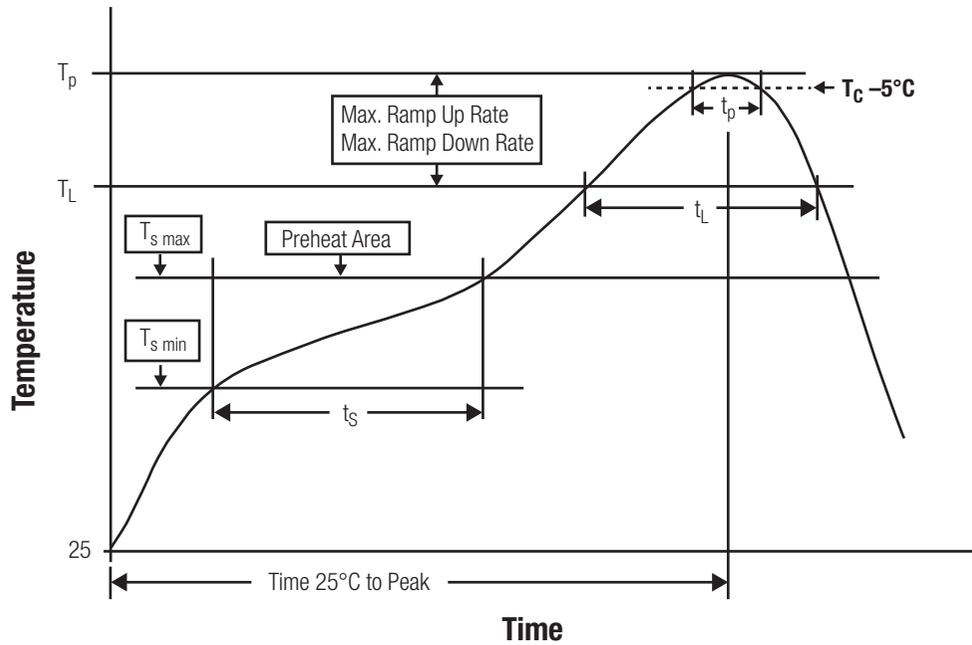
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CREATED	CHECKED	GENERAL TOLERANCE	PROJECTION METHOD
DaMa	NPr	DIN ISO 2768-1m	
DESCRIPTION		ORDER CODE	
USB 3.1 Type C Plug Horizontal SMT WR-COM		632712000011	
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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min ¹⁾	$T_{s \text{ min}}$	150 °C
Preheat Temperature Max	$T_{s \text{ max}}$	200 °C
Preheat Time t_s from $T_{s \text{ min}}$ to $T_{s \text{ max}}$	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 tempereure	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 mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm ¹⁾	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 ≥ 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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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

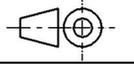
Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. 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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