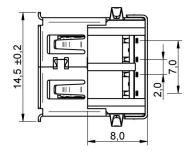
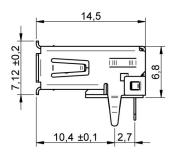
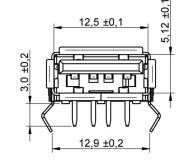
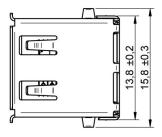
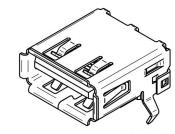
A Dimensions: [mm]





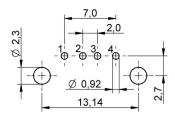






Scale - 2:1

B Recommended land pattern: [mm]

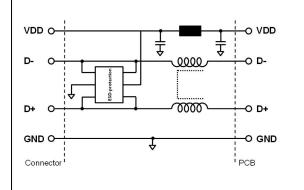


Scale - 2:1

D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Common Mode Impedance D+D-	100 MHz	Z _{D+/D-}	100	Ω	typ.
DC Resistance VDD	@20°C	R _{DC} VDD	200	mΩ	max.
DC Resistance D+D-	@20°C	R _{DC D+/D-}	350	mΩ	max.
DC Operating voltage		V_{DC}	5	٧	max.
(Reverse) breakdown voltage	$I_{BV} = 1 \text{ mA}$	V_{BR}	6	V	min.
Low Level Contact Resistance		R _{CR}	30	mΩ	max.
Insertion Capacitance	f = 1 MHz	CD+/D-	2	pF	typ.
Rated Current VDD		I _R VDD	1000	mA	max.
Rated Current D+D-		I _{R D+/D-}	330	mA	max.
ESD Clamping Voltage		V _{Ch D+/D-}	9.5	٧	typ.
ESD Clamping Voltage		V _{Ch VDD}	9	V	typ.

C Schematic:



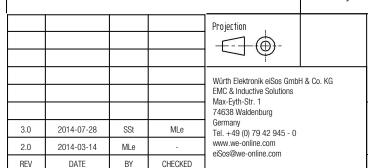
E General information:

It is recommended that the temperature of the part does not exceed +125°C under worst case conditions.

- •Storage Temperature: -20°C to +60°C
- •Operating Temperature: -40°C to +85°C
- •Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently
- •Flamability rating: UL94-V0
- Quality class: 1500 mating cycles
 DESCRIPTION

USB 2.0 Pin Configuration

Pin	1	2	3	4	Housing
Signal name	VBUS	D-	D+	GND	Shielding



WE-EPLE USB 2.0 A Connector

Order.- No.

8492121



This electronic component has been designed and developed for usage in general electronic equipment only. This 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 products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, ship control), train control, ship control), train control, ship control), train control, ship control), train control, ship control in 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.



D2 Absolute Maxium Ratings:

Properties		Value	Unit
Operating supply voltage	V _{DC}	6	V
ESD contact discharge IEC61000-4-2	V _{ESD, D+/D} -	15	kV
ESD Withstand Voltage Air IEC61000-4-2	V _{ESD, VDD}	18	kV
DC voltage at any I/O pin min.	V _{D+/D-}	GND -0.5	V
DC voltage at any I/O pin max.	V _{D+/D-}	VDD +0.5	V

D3 Material Characteristics:

Insulator	LCP UL-94V0
Color	Black
Contact	Phosphor Bronze
Contact Area Plating	Gold
Shielding	Brass
Mating Force/ Unmating Force	35 N/ 10 N
Quality Class	1500 Mating Cycles

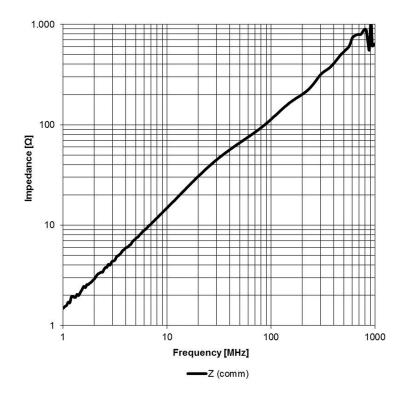
E2 General information:

- · High Speed up to 480 Mbit/s
- · ESD Protection of data channels and VDD
- · Common Mode Noise Rejection
- · VDD Differential Mode Noise Rejection
- \cdot Provides ESD protection for each channel to IEC 61000-4-2 (ESD) $\pm 15 kV$ (contact/air) IEC 61000-4-4 (EFT) (5/50ns) 20A (I/O), 40A VDD IEC 61000-4-5 (Lightning) 6A (8/20 μ s)
- · Ultra Low capacitance: 2 pF typical
- \cdot Fast turn on and low Clamping Voltage

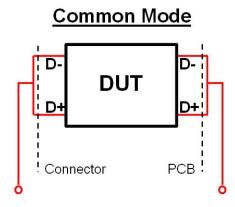
				Projection ————————————————————————————————————		DESCRIPTION WE EDIELICE	2.0 A Connector	
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG	WE-EFLE USB	2.0 A Connector	
				Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
3.0	2014-07-28	SSt	MLe	Germany Tel. +49 (0) 79 42 945 - 0		0400404	ROHS&REACH	SIZL
2.0	2014-03-14	MLe	-	www.we-online.com eiSos@we-online.com		8492121	I I I I I I I I I I I I I I I I I I I	A4
REV	DATE	BY	CHECKED	CIOCOSSWC OHIIIIC.COM				



F1 Typical Impedance Characteristics D+/D-:



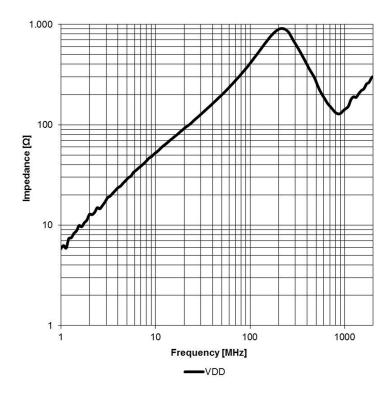
Test Setup:



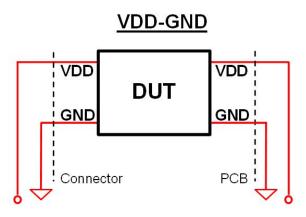
				Projection ————————————————————————————————————	WE-EPLE USB 2.0 A Connector
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions	
				Max-Eyth-Str. 1 74638 Waldenburg	Order No.
3.0	2014-07-28	SSt	MLe	Germany Tel. +49 (0) 79 42 945 - 0	Rohs&Reach
2.0	2014-03-14	MLe	-	www.we-online.com eiSos@we-online.com	8492121 WÜRTH ELEKTRONIK A4
REV	DATE	BY	CHECKED	clods@wc offinic.com	



F2 Typical Impedance Characteristics VDD-GND:

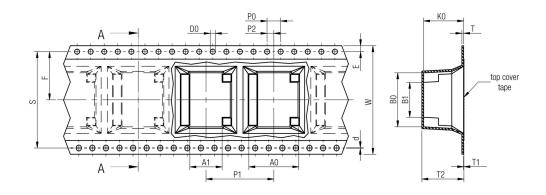


Test Setup:

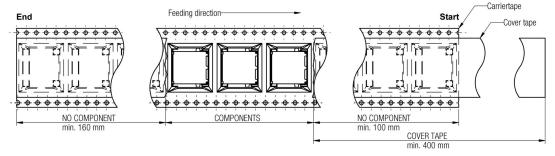


				Projection ————————————————————————————————————		DESCRIPTION WE-EPLE USB	2.0 A Connector	
				Würth Elektronik eiSos GmbH EMC & Inductive Solutions	1 & Co. KG			
				Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
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2.0	2014-03-14	MLe	-	www.we-online.com eiSos@we-online.com		8492121	WORTH ELEKTRONIA	A4
REV	DATE	BY	CHECKED	CIOCOSSIVE GIIIIIE.COIII				

G Packaging Specification - Tape and Reel [mm]:

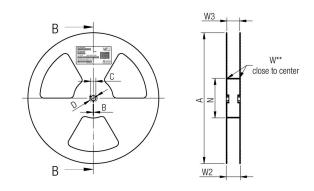


		A0	A1	В0	B1	w	т	T1	Т2	K0	d	D0	E	s	F	P0	P1	P2	Таре	VPE / packaging unit
	tolerance	typ.	typ.	typ.	typ.	± 0,3	± 0,05	typ.	max.	typ.	± 0,05	+0,1 -0,0	± 0,1	± 0,1	± 0,1	± 0,1	± 0,1	± 0,1		
9	8492121	14,80	9,52	15,95	10,30	32,00	0,50	0,10	12,50	11,80	0,20	1,50	1,75	28,40	14,20	4,00	20,00	2,00	Polystyrene	270

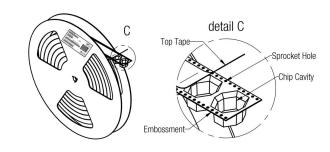


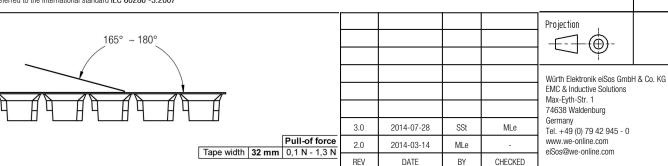
Packaging is referred to the international standard IEC 60286 -3:2007





		Α	В	С	D	N	W1	W2	W3	W3
tolerance		± 2,0	min.	± 0,8	min.	± 2,0	+ 1,5	max.	min.	max.
Tape width	32 mm	330,00	1,50	13,00	20,20	100,00	32,40	38,40	31,90	35,40





Order.- No.

8492121

DESCRIPTION

WE-EPLE USB 2.0 A Connector

SIZE

ROHS&REACH
WORTH ELEKTRONIK

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 and reliability standard and reliability standard and reliability standard is especially required or where a failure of the products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eSos GmbH & Co KG must be informed about the intent of such usage before the design-in 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.

H Soldering Specifications:



H4: Classification Wave Soldering Profile:



H5: Classification Wave Profile

Profile Feature	Pb-Free Assembly	Sn-Pb Assembly
Preheat		
- Temperature Min (T _{smin})	100°C	100°C
- Temperature Typical (T _{stypical})	120°C	120°C
- Temperature Max (T _{smax})	130°C	130°C
- Time (t _s) from (T _{smin} to T _{smax})	70 seconds	70 seconds
Δ preheat to max Temperature	150°C max.	150°C max.
Peak temperature (T _p)	250°C - 260°C	235°C - 260°C
Time of actual peak temperature (t _n)	max. 10 seconds	max. 10 seconds
P	max. 5 second each wave	max. 5 second each wave
Ramp-down rate		
- Min	~ 2 K/s	~ 2 K/s
- Typical	~ 3.5 K/s	~ 3.5 K/s
- Max	~ 5 K/s	~ 5 K/s
Time 25°C to 25°C	4 minutes	4 minutes

refer to EN 61760-1:2006

					Projection ————————————————————————————————————	WE-EPLE USB 2.0 A Connector
					Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg	Order - No
ļ	3.0	2014-07-28	SSt	MLe	Germany Tel. +49 (0) 79 42 945 - 0	ROHS&REACH SIZE
ŀ	2.0 REV	2014-03-14 DATE	MLe BY	- CHECKED	www.we-online.com eiSos@we-online.com	0492121 A4

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-USBH 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 connector has to be avoided.

Direct mechanical exposure to the product shall be prevented as the connector material or the connector body could lose its characteristics and connector contacts may be damaged.

If the product is potted in customer applications, the potting material might shrink during and after hardening. Accordingly to this 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 endanger 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 for customer specific products.

There is no compatibility warranty with all available similar connectors on the market. The responsibility to insure the compatibility of the mating part is always within the authority of the customer.

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

Product specific:

Follow all instructions mentioned in the datasheet, especially:

- •The solder profile has to be complied with according to the technical reflow soldering specification, otherwise no warranty will be sustained
- Reflow soldering is not applicable. Wave soldering is recommended.
- 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 result in the loss of 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 inaccuarcies or incompleteness.





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 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.

				Projection -		DESCRIPTION WE-EPLE USB	2.0 A Connector	
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions Max-Eyth-Str. 1	H & Co. KG			
				74638 Waldenburg		Order No.	COMPLIANT	SIZF
3.0	2014-07-28	SSt	MLe	Germany Tel. +49 (0) 79 42 945 - 0		0400404	ROHS&REACH	OIZE
2.0	2014-03-14	MLe	-	www.we-online.com eiSos@we-online.com		8492121	I JANA ELEKTRONIK	A4
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