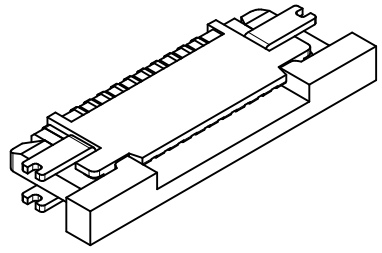
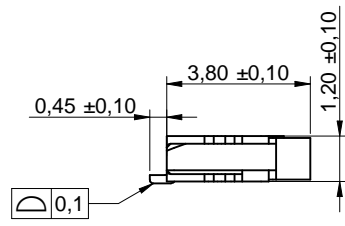
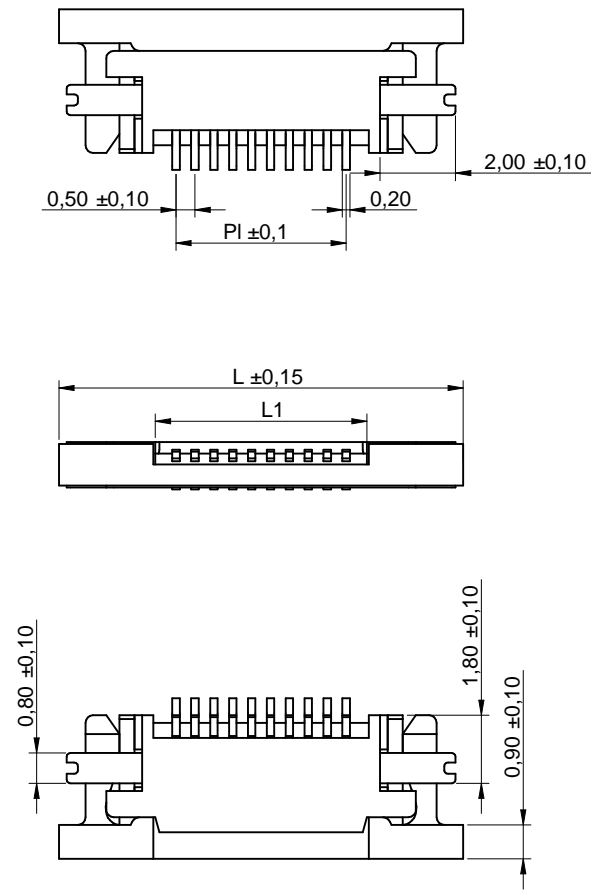
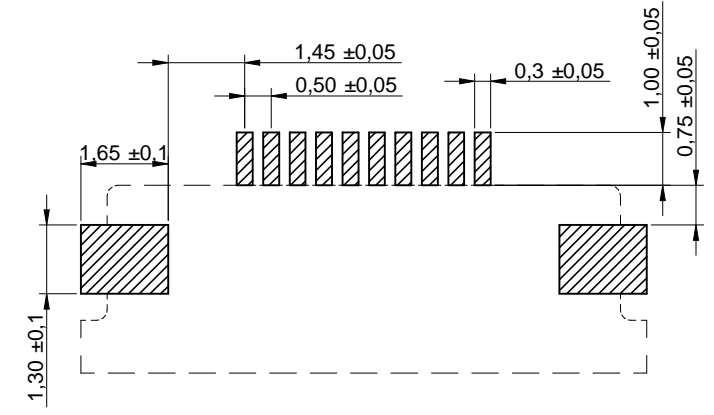


**Dimensions: [mm]**



**Recommended Hole Pattern: [mm]**



**Article Properties:**

Properties		Value
Pins		28
Pin to Pin (Middle)	$P_1$	13
Length	$L$	19.2
Length	$L_1$	14.1

Würth Elektronik eiSos GmbH & Co. KG  
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CREATED ATo	CHECKED GMo	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
DESCRIPTION <b>WR-FPC 0.50mm SMT Horizontal Top Contact - Low Profile</b>		ORDER CODE <b>687 128 183 622</b>	
REVISION 001.000	STATUS Valid	DATE 2016-08-15	BUSINESS UNIT eiCan

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-in stage. In addition, sufficient reliability evaluation checks must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

### Article Properties:

Pins	P <sub>1</sub>	L	L <sub>1</sub>	Order Code
6	2.0 mm	8.2 mm	3.1 mm	687 106 183 622
8	3.0 mm	9.2 mm	4.1 mm	687 108 183 622
10	4.0 mm	10.2 mm	5.1 mm	687 110 183 622
12	5.0 mm	11.2 mm	6.1 mm	687 112 183 622
14	6.0 mm	12.2 mm	7.1 mm	687 114 183 622
16	7.0 mm	13.2 mm	8.1 mm	687 116 183 622
18	8.0 mm	14.2 mm	9.1 mm	687 118 183 622
20	9.0 mm	15.2 mm	10.1 mm	687 120 183 622
22	10.0 mm	16.2 mm	11.1 mm	687 122 183 622
24	11.0 mm	17.2 mm	12.1 mm	687 124 183 622
26	12.0 mm	18.2 mm	13.1 mm	687 126 183 622
28	13.0 mm	19.2 mm	14.1 mm	687 128 183 622
30	14.0 mm	20.2 mm	15.1 mm	687 130 183 622
32	15.0 mm	21.2 mm	16.1 mm	687 132 183 622
33	15.5 mm	21.7 mm	16.6 mm	687 133 183 622
34	16.0 mm	22.2 mm	17.1 mm	687 134 183 622
40	19.0 mm	25.2 mm	20.1 mm	687 140 183 622

### Kind Properties:

Properties	Value	Unit
Standard Polarities	06;08;10;12;14;16;18;20;22;24;26;28;30;32;33;34;40;	
Pitch	0.5	mm
Quality Class	20 Mating cycles	

### Material Properties:

Insulator Material	LCP
Insulator Color	Ivory
Insulator Flammability Rating	UL94-V0
Contact Material	Phosphor Bronze
Contact Plating	120 (μ) Tin over 30 (μ) Nickel
Contact Type	Stamped
Actuator Material	PA 6T
Actuator Color	Black
Actuator Flammability Rating	UL94-V0

### General Information:


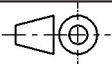
Operating Temperature	-25 °C up to +85 °C
Compliance	RoHS

### Electrical Properties:

Properties	Test conditions		Value
Rated Current		I <sub>R</sub>	0.4
Working Voltage			50
Withstanding Voltage	1 min		250
Contact Resistance		R	30
Insulation Resistance		R <sub>ISO</sub>	100

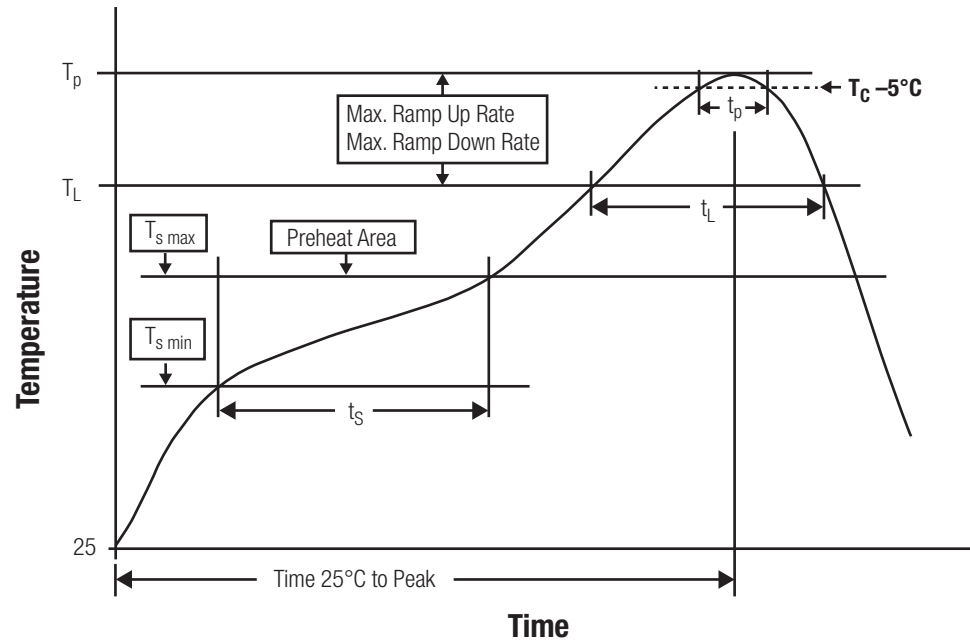
### Packaging Properties:

Packaging	Tape and Reel
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<p>Würth Elektronik eiSos GmbH &amp; Co. KG EMC &amp; Inductive Solutions</p> <p>Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0</p> <p>www.we-online.com eiSos@we-online.com</p> 	<p>CREATED ATo</p>	<p>CHECKED GMo</p>	<p>GENERAL TOLERANCE DIN ISO 2768-1m</p>	<p>PROJECTION METHOD</p> 
<p>DESCRIPTION</p> <p><b>WR-FPC 0.50mm SMT Horizontal Top Contact - Low Profile</b></p>			<p>ORDER CODE</p> <p><b>687 128 183 622</b></p>	
	<p>REVISION 001.000</p>	<p>STATUS Valid</p>	<p>DATE 2016-08-15</p>	<p>BUSINESS UNIT eiCan</p>

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## Classification Reflow Profile for SMT components:



## Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min <sup>1)</sup>	$T_{s \min}$	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 temperature	$t_p$	20 - 30 seconds
Ramp-down Rate ( $T_L$ to $T_p$ )		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

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

## Package Classification Reflow Temperature:

Properties	Volume mm <sup>3</sup> <350	Volume mm <sup>3</sup> 350-2000	Volume mm <sup>3</sup> >2000
PB-Free Assembly   Package Thickness < 1.6 mm <sup>1)</sup>	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

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

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions  Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0  www.we-online.com eiSos@we-online.com	CREATED ATo	CHECKED GMo	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
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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](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 Section 1 and 2 remains unaffected.

## 6. Product Life Cycle

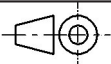
Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance.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