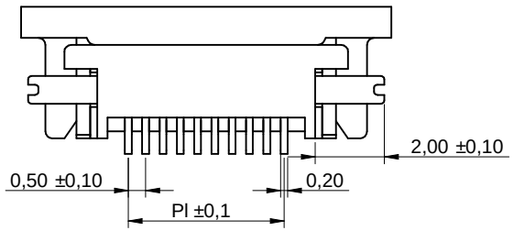
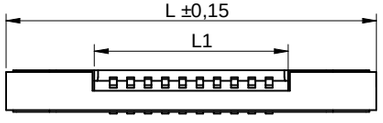
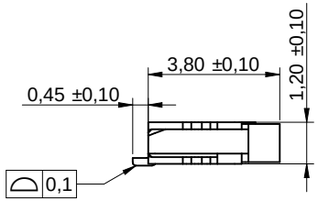
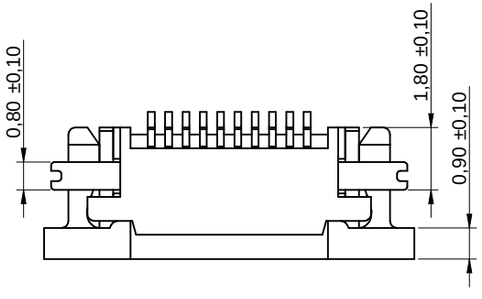
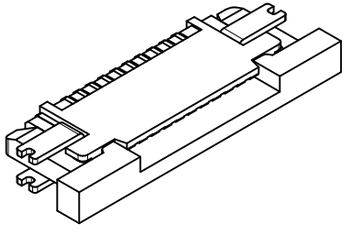
Dimensions: [mm]



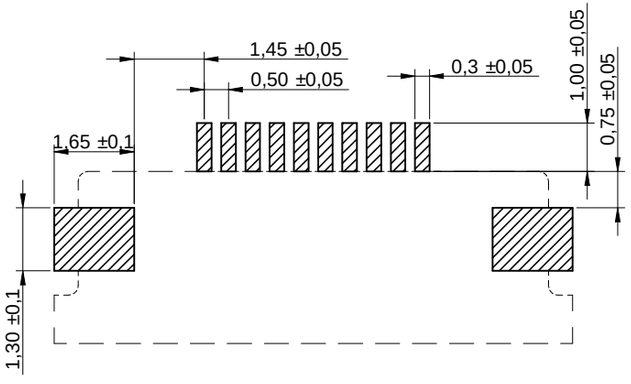








Recommended Hole Pattern: [mm]



Article Properties:

Properties		Value
Pins		40
Pin to Pin (Middle)	P_1	19
Length	L	25.2
Length	L_1	20.1

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WÜRTH ELEKTRONIK

CREATED	CHECKED	GENERAL TOLERANCE	PROJECTION METHOD
ATo	GMo	DIN ISO 2768-1m	

DESCRIPTION
WR-FPC 0.50mm SMT Horizontal Top Contact - Low Profile

ORDER CODE
687 140 183 622

REVISION	STATUS	DATE	BUSINESS UNIT
001.000	Valid	2016-08-15	eiCan

Article Properties:

Pins	P_1	L	L_1	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_R	0.4
Working Voltage			50
Withstanding Voltage	1 min		250
Contact Resistance		R	30
Insulation Resistance		R_{ISO}	100

Packaging Properties:

Packaging	Tape and Reel

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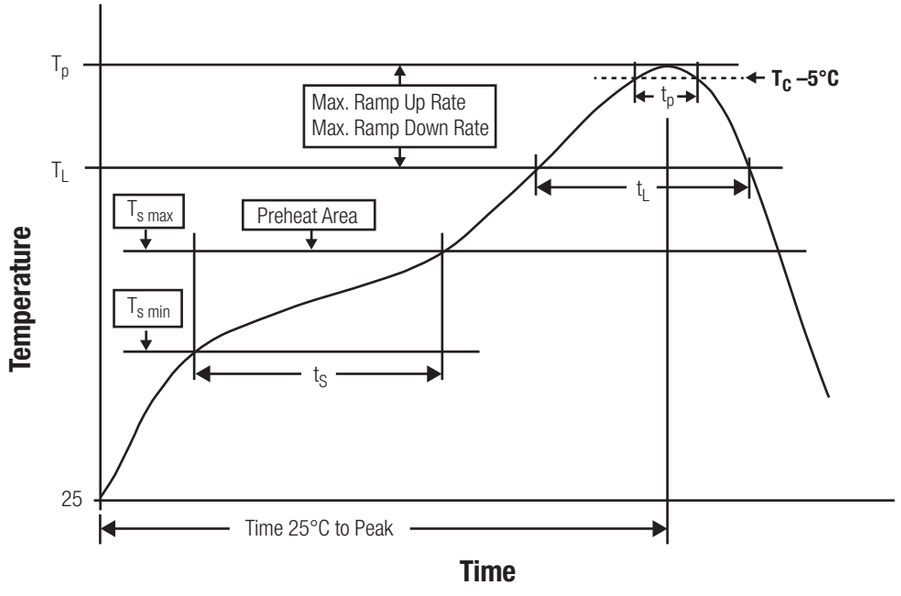
Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min [1)]	$T_{s\,min}$	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 temperaure	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 mm³ <350	Volume mm³ 350-2000	Volume mm³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm [1)]	260 °C	260 °C	260 °C
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly I 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 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

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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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