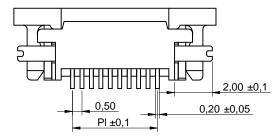
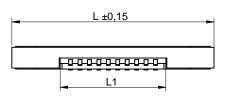
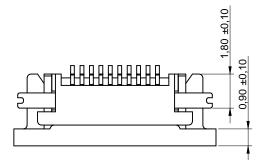
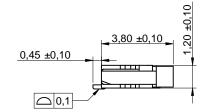
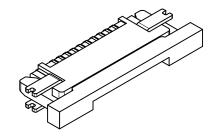
### **Dimensions: [mm]**



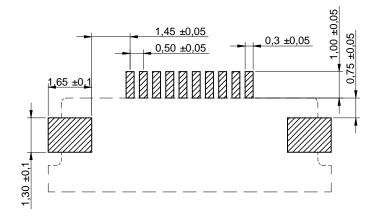








### **Recommended Hole Pattern: [mm]**



#### **Article Properties:**

Properties		Value	Unit
Pins		12	
Pin to Pin (Middle)	P <sub>I</sub>	5.5	mm
Length	L	11.2	mm
Length	L <sub>1</sub>	6.1	mm



### **Article Properties:**

Pins	P <sub>I</sub>	L	L <sub>1</sub>	Order Code
6	2.5 mm	8.2 mm	3.1 mm	687 106 183 722
8	3.5 mm	9.2 mm	4.1 mm	687 108 183 722
10	4.5 mm	10.2 mm	5.1 mm	687 110 183 722
12	5.5 mm	11.2 mm	6.1 mm	687 112 183 722
14	6.5 mm	12.2 mm	7.1 mm	687 114 183 722
16	7.5 mm	13.2 mm	8.1 mm	687 116 183 722
18	8.5 mm	14.2 mm	9.1 mm	687 118 183 722
20	9.5 mm	15.2 mm	10.1 mm	687 120 183 722
22	10.5 mm	16.2 mm	11.1 mm	687 122 183 722
24	11.5 mm	17.2 mm	12.1 mm	687 124 183 722
26	12.5 mm	18.2 mm	13.1 mm	687 126 183 722
28	13.5 mm	19.2 mm	14.1 mm	687 128 183 722
30	14.5 mm	20.2 mm	15.1 mm	687 130 183 722
32	15.5 mm	21.2 mm	16.1 mm	687 132 183 722
33	16.0 mm	21.7 mm	16.6 mm	687 133 183 722
34	16.5 mm	22.2 mm	17.1 mm	687 134 183 722
40	19.5 mm	25.2 mm	20.1 mm	687 140 183 722

#### **Kind Properties:**

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

# **Material Properties:**

Insulator Material	LCP			
Insulator Color	lvory			
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	Unit
Rated Current		I <sub>R</sub>	0.4	Α
Working Voltage			50	V (AC)
Withstanding Voltage	1 min		250	V (AC)
Contact Resistance		R	30	mΩ
Insulation Resistance		R <sub>ISO</sub>	100	МΩ

### **Packaging Properties:**

Packaging	Tape and Reel
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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 Bot

**WÜRTH ELEKTRONİK** 

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CHECKED GENERAL TOLERANCE
GMO DIN ISO 2768-1m

rance 768-1m





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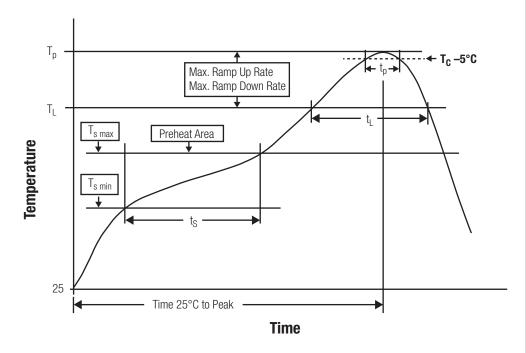
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WR-FPC 0.50mm SMT Horizontal Bottom Contact - Low Profile

687 112 183 722

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

### **Classification Reflow Profile for SMT components:**



### **Classification Reflow Soldering Profile:**

Profile Feature		Value
Preheat Temperature Min <sup>1)</sup>	T <sub>s min</sub>	150 °C
Preheat Temperature Max	T <sub>s max</sub>	200 °C
Preheat Time $t_s$ from $T_{s  min}$ to $T_{s  max}$	t <sub>s</sub>	60 - 120 seconds
Ramp-up Rate (T <sub>L</sub> to T <sub>P</sub> )		3 °C/ second max.
Liquidous Temperature	T <sub>L</sub>	217 °C
Time $t_L$ maintained above $T_L$	t <sub>L</sub>	60 - 150 seconds
Peak package body temperature	T <sub>p</sub>	see table
Time within 5°C of actual peak temperaure	t p	20 - 30 seconds
Ramp-down Rate (T <sub>L</sub> to T <sub>P</sub> )		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

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

### **Package Classification Reflow Temperature:**

Properties	Volume mm³ <350	Volume mm <sup>3</sup> 350-2000	Volume mm³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm <sup>1)</sup>	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

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

CHECKED GENERAL TOLERANCE Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions ATo GMo DIN ISO 2768-1m Max-Eyth-Str. 1 74638 Waldenburg **WR-FPC 0.50mm SMT Horizontal** Tel. +49 (0) 79 42 945 - 0 **Bottom Contact - Low Profile** www.we-online.com 687 112 183 722 eiSos@we-online.com REVISION STATUS PAGE Valid 001.000 2016-08-15 3/4 **WÜRTH ELEKTRONIK** 

#### **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

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#### 8. General Terms and Conditions

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