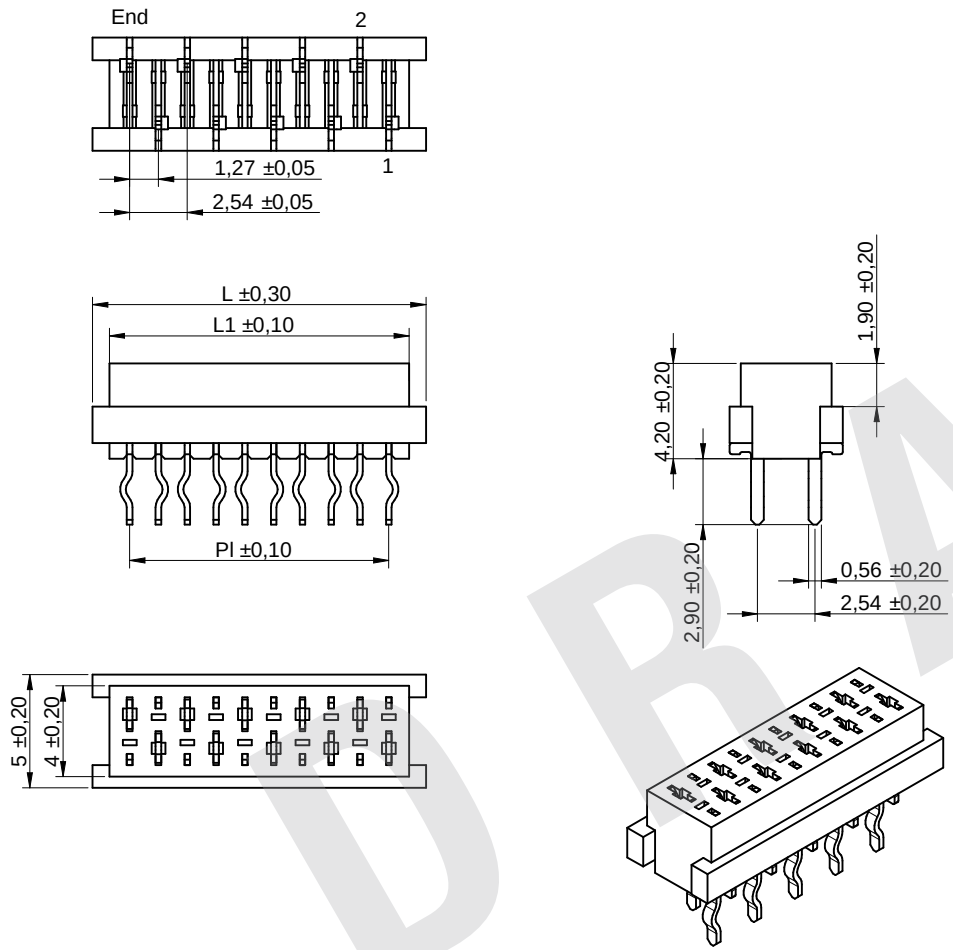
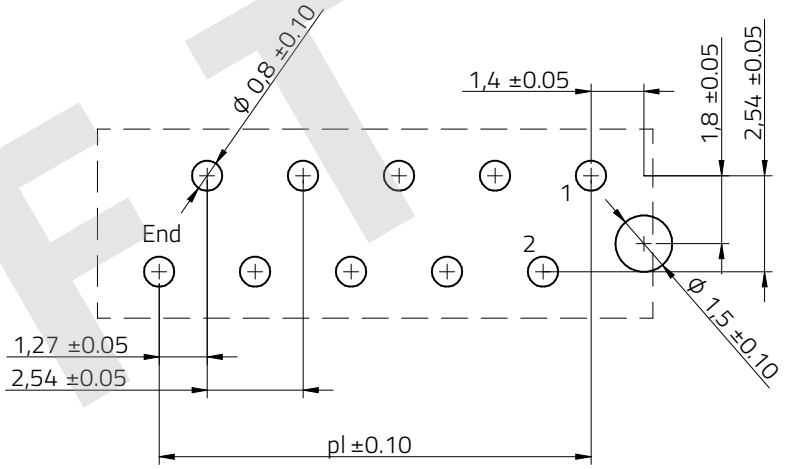
Dimensions: [mm]



Recommended Hole Pattern: [mm]



Pattern Properties:

Properties		Value	Unit
Pin to Pin (Middle)	p_l	8.89	mm

Article Properties:

Properties		Value	Unit
Pins		8	
Pin to Pin (Middle)	P_l	8.89	mm
Length	L	12.16	mm
Length	L_1	10.69	mm

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WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

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eiSos@we-online.com

CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
WE	002.001	2027-02-16	DIN ISO 2768-1m	

DESCRIPTION
WR-MM Female Connector

ORDER CODE
690367180872

SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
without Latch and without Polarization	eiCan	Valid from 2027-02-16 due to PCN	1/8

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Kind Properties:

Properties		Test conditions	Value	Unit
Pitch	P	per Row	2.54	mm
Durability	25 Mating cycles			
Gender	Female			

Material Properties:

Insulator Material	PBT
Insulator Flammability Rating	UL94 V-0
Insulator Color	Red
Contact Material	Phosphor Bronze
Contact Plating	Matte Tin over Nickel
Contact Type	Stamped

General Information:

Operating Temperature	-40 °C up to +105 °C

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Rated Current	I_R	@ 25 °C	1.5	A	
Working Voltage			250	V (AC)	
Withstanding Voltage		1 min	500	V (AC)	
Contact Resistance	R		10	mΩ	max.
Insulation Resistance	R_{ISO}		1000	MΩ	min.

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
cULus Approval	E323964

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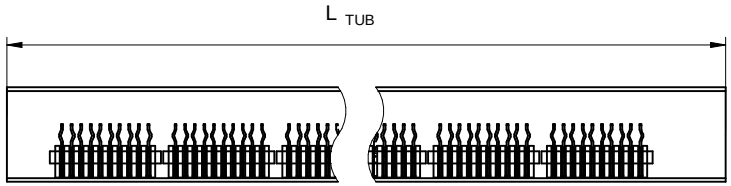
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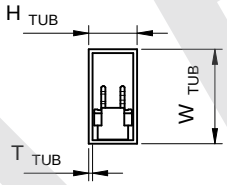
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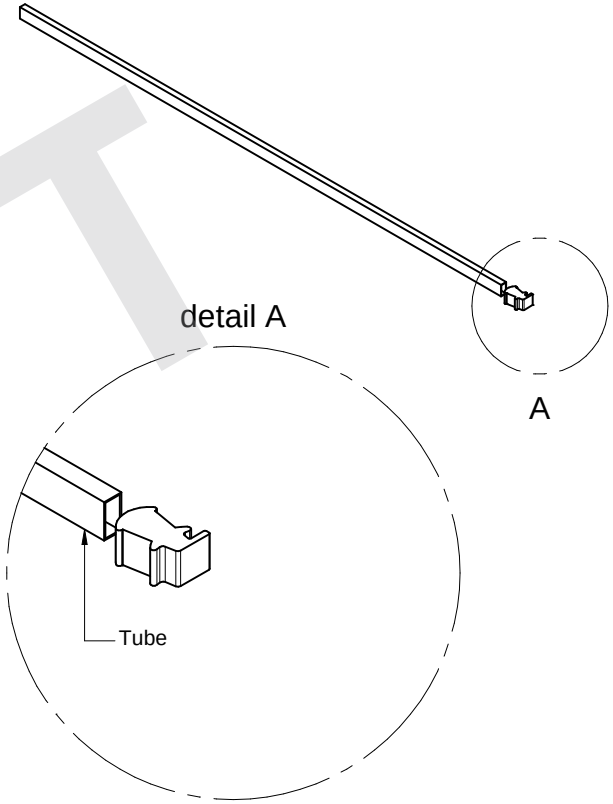
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Packaging Specification - Tube: [mm]







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NB: Actual packaging may slightly differ from datasheet

L_{TUB} (mm)	W_{TUB} (mm)	H_{TUB} (mm)	T_{TUB} (mm)	No. of pcs in Tube	Material
typ.	typ.	typ.	typ.	pcs.	
600	12.5	6.4	0.5	47	Plastic

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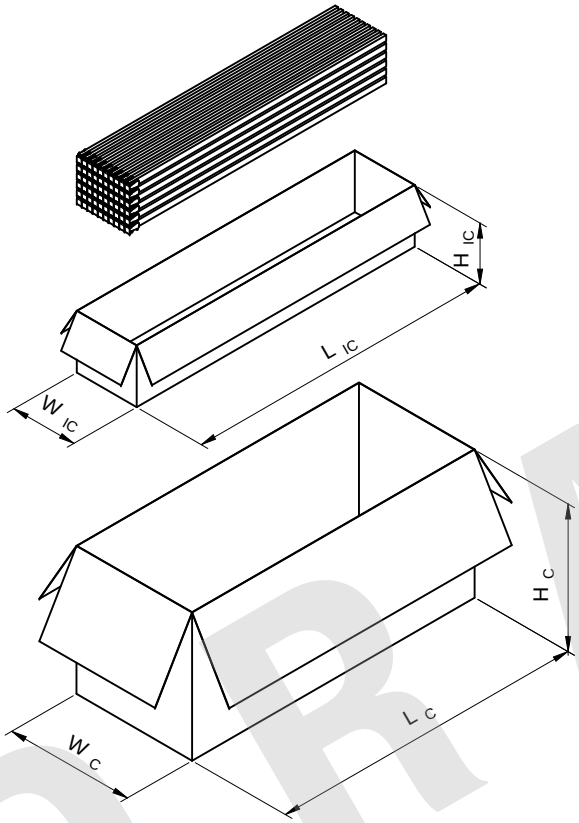
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SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
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Packaging Specification - Tube and Carton: [mm]



NB: Actual packaging may slightly differ from datasheet

L_C (mm)	W_C (mm)	H_C (mm)	Li (mm)	Wi (mm)	Hi (mm)	No. Of Tubes	Outer Packaging unit	Material
typ.	typ.	typ.	typ.	typ.	typ.	typ.	pcs.	
630	150	230	607	60	102	240	11280	Paper

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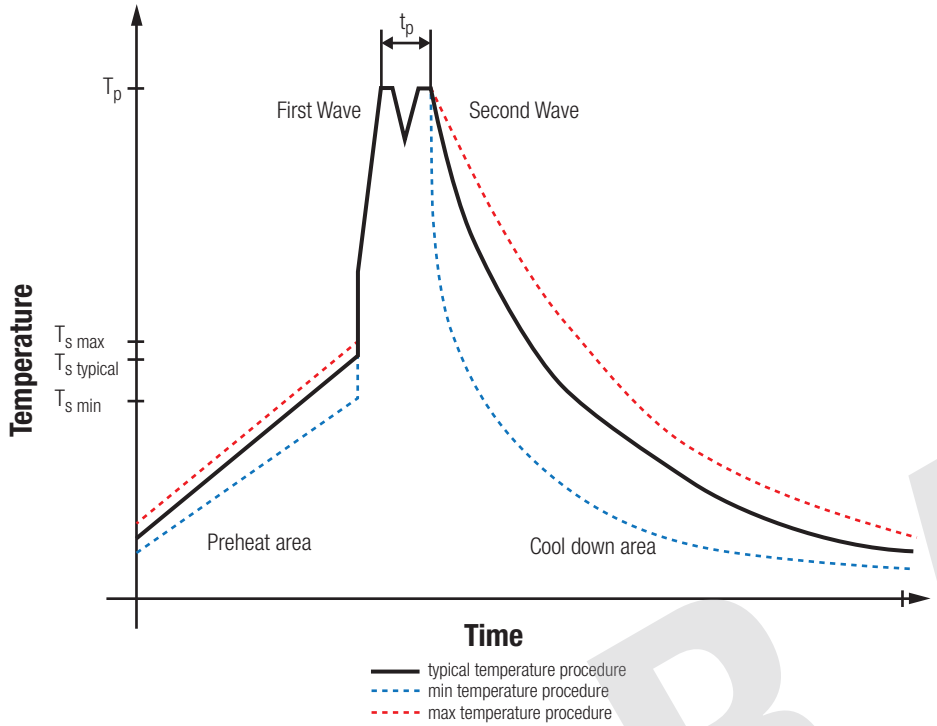
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Classification Wave Soldering Profile:



Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_{s\ min}$	100 °C	100 °C
Preheat Temperature Typical	$T_{s\ typical}$	120 °C	120 °C
Preheat Temperature Max	$T_{s\ max}$	130 °C	130 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	70 seconds	70 seconds
Ramp-up Rate Δ Temperature from $T_{s\ typical}$ to T_p	Δ T	150 °C max.	150 °C max.
Peak Temperature	T_p	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 seconds max. 5 seconds each wave	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second	~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second	~ 3.5 K/ second
Ramp-down Rate, Max		~ 5 K/ second	~ 5 K/ second
Time 25 °C to 25 °C		4 minutes	4 minutes

refer to EN 61760-1:2006

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Further information

Component Libraries:

3D	3D_690367180872
Altium	Altium_WR-MM (26a)
Cadence17-2	Downloads_CADENCE_WR-MM (25a)
Eagle	Eagle_WR-MM (25a)
IGS	Download_IGS_690367180872
KiCad	KiCad_WR-MM (26c)
STP	Download_STP_690367180872

Related Products:

- Mates with: 690157000872
- Mates with: 690357280876

Design Kits:

- WR-MM MiniModule Connectors

Free Sample Order:

Order free samples of this article directly here!

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Cautions and Warnings:

The following conditions apply to all goods within the product series of the Connectors of Würth Elektronik eiSos Group:

General:

- This mechanical component is designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any equipment in fields such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network, etc. where higher safety and reliability are especially required and/or if there is the possibility of direct damage or human injury.
- Mechanical components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The mechanical component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions specified in the datasheet are not met, the component may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- Prevent any damage or scratches on the component, especially on the actuator.
- Direct mechanical impact to the product shall be prevented (e.g overlapping of the PCB´s).
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and sustainability over time.
- The responsibility for the applicability of the 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 to customer specific products.
- The mechanical component is designed to be used along with Würth Elektronik counterparts and tools. Würth Elektronik cannot ensure the reliability of these components while being used with other products.
- Please note that the specified current rating represents the maximum value the product can safely withstand under controlled laboratory conditions, within a defined range of ambient temperatures (@ 25°C). If the product is used in environments where the ambient temperature differs from those laboratory conditions, it is important to assess and adjust the maximum current rating accordingly. The current rating may decrease due to the derating effect at higher temperatures. To ensure safe and reliable operation, customers should evaluate the actual operating environment and select the appropriate current rating based on the expected ambient temperature.

Product Specific:

Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.

Cleaning and Washing:

- Washing agents used during the production to clean the customer application might damage or change the characteristics of the component, body, pins and termination. Washing agents may have a negative effect on the long-term functionality of the product.
- Using a brush during the cleaning process may deform function relevant areas. Therefore, we do not recommend using a brush during the PCB cleaning process.

Potting and Coating:

- If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking could lead to an incomplete seal, allowing contaminants into the components. Expansion could damage the components. We recommend a manual inspection after potting or coating to avoid these effects.

Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

Packaging:

- The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

Handling:

- Do not repeatedly operate the component with excessive force. It may damage or deform the component resulting in malfunction.
- In the case a product requires particular handling precautions, in addition to the general recommendations mentioned here before, these will appear on the product datasheet.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component.The operating temperature of the component shall not exceed the maximum temperature specified.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.

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WE	002.001	2027-02-16	DIN ISO 2768-1m	

DESCRIPTION: **WR-MM Female Connector**

ORDER CODE: **690367180872**

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Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos Group

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos Group 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 Group 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 Group. Würth Elektronik eiSos Group 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 Group 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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