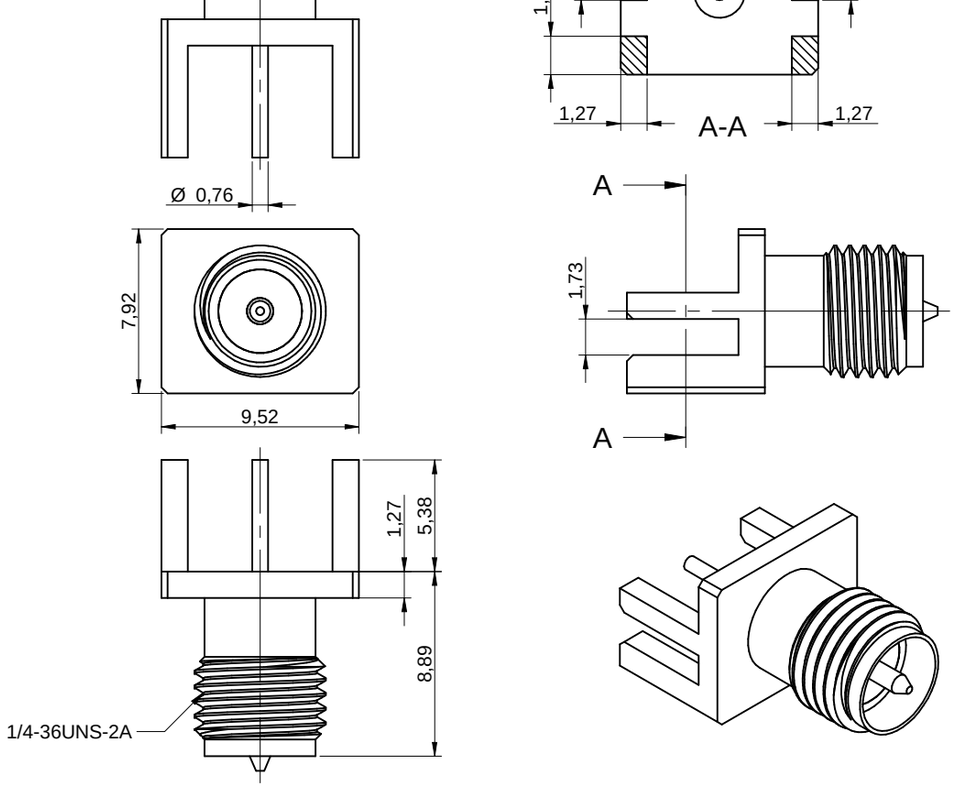
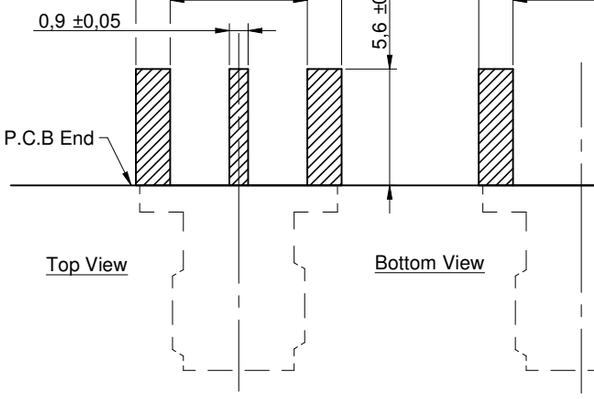


Scale - 2:1



P.C.B Thickness: 1,6 mm

Article Properties:

Properties	Value	Unit
PCB Thickness	1.6	mm

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WÜRTH ELEKTRONIK

CREATED	CHECKED	GENERAL TOLERANCE	PROJE METH
DaSc	JTs	DIN ISO 2768-1m	

DESCRIPTION

Reverse Polarity SMA PCB End Launch Jack Round Post for 1.6mm PCB WR-RPSMA

ORDER CODE

6301220

REVISION	STATUS	DATE (YYYY-MM-DD)
001.000	Valid	2018-03-19

Body Plating	Gold, min. 0.076µm over Nickel

Kind Properties:

Interface	MIL-STD-348
Connector Type	RP SMA
Gender	Jack
Orientation Type	Straight

General Information:

Operating Temperature	-65 °C up to +165 °C
Compliance	RoHS

Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Impedance	DC~18 GHz	Z	50	Ω	
Frequency Range		f	DC~18 GHz		
VSWR	DC~12.4 GHz		1.2		max.
Insertion Loss	DC~12.4 GHz	IL	0.14	dB	max.
VSWR	12.4 GHz~18 GHz		1.4		max.
Insertion Loss	12.4 GHz~18 GHz	IL	0.2	dB	max.
Insulation Resistance	500 V (DC) in 120 sec.	R_{ISO}	5000	MΩ	min.
Contact Resistance Initial [1)]		R	3	mΩ	max.
Contact Resistance After Test [2)]		R	4	mΩ	max.
Contact Resistance Initial [3)]		R	2	mΩ	max.

VSWR: The VSWR in application varies decisively according to PCB layout

Mechanical Properties:

Properties	Value
Center Contact Retention (Axial)	26.7
Mating Cycle	500
Recommended Mating Torque	57

Packaging Properties:

Properties		Value
Packaging		Tray
Packaging Unit	Qty.	180

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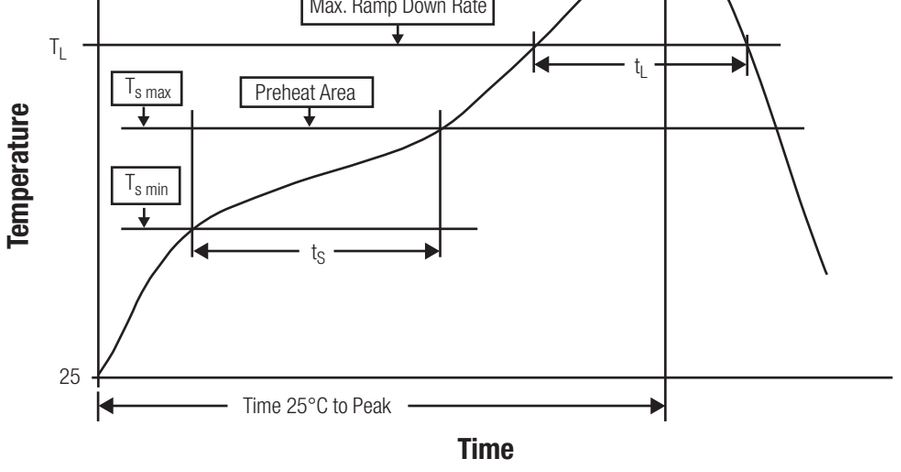

Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_p	see table
Time within 5°C of actual peak temperaure	t_p	20 - 30 seconds
Ramp-down Rate (T_L to T_P)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

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
PB-Free Assembly I Package Thickness < 1.6 mm 1)	260 °C	260 °C
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C
PB-Free Assembly I Package Thickness ≥ 2.5 mm	250 °C	245 °C

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

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- This electronic component is designed and developed with the intention for use in general electronic equipment.
- Before incorporating the components into any equipment in the field 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 or if there is possibility of direct damage or injury to human body, Wurth Elektronik must be asked for a written approval.
- In addition, even electronic component in general electronic equipment, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed by the user before usage.
- The connector is designed and manufactured to be used within the datasheet specified values.
- Do not use the connector outside the datasheet specifications.
- Prevent any damage or scratches on the connector, especially on the actuator.
- Direct mechanical impact to the product shall be prevented (e.g overlapping of the PCB´s).
- 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 specification for standard products do also apply to customer specific products.
- Würth Elektronik products are qualified according to international standards which are listed into each product reliability report.All products characteristics are therefore given according to results obtained throughout these detailed test protocols. May any product characteristic be qualified by the customer, out of given Würth Elektronik specifications, Würth Elektronik cannot ensure its validity and sustainability over time.
- The Connectors are designed to be used along with Würth Elektronik counterparts and tools. Würth Elektronik cannot insure the reliability of these components while being used with other products.

Product Specific:

Soldering:

- The solder profile must comply with the Würth Elektronik technical soldering specification, otherwise this will void the warranty.
- Other soldering methods are not verified and have to be validated by the customer at his own risk.

Cleaning and Washing:

- Parts are not constructed for washing, so washing can cause malfunction afterwards.
- Cleaning agent that are used to clean the customer applications might damage or change the characteristics of the component, body, pins and termination.

- The Connectors are considered MSL1 into closed original packaging and are not subject to storage ti
sensivity but all products shall be used before the end of the period of 12 months based on the produ
solderability can't be warranted.

Handling:

- Do not repeatedly operate the connector with excessive force. It may damage or deforms the contact
- In the case a product requires particular handling precautions, in addition to the general recommenda
will appear on the product datasheet.

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Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG certain 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.

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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 “Gener Elektronik eiSos Group”, last version available at www.we-online.com.

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