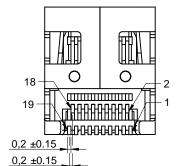
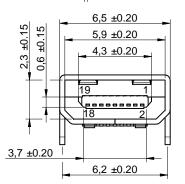
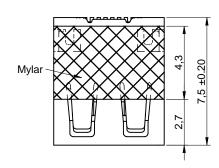
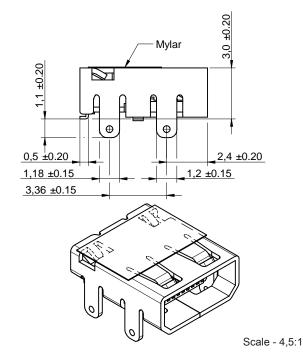
Dimensions: [mm]

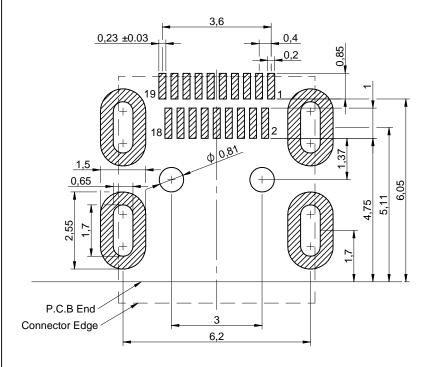








Recommended Land Pattern: [mm]



General tolerance ±0.05

Scale - 8:1

Pins 19

CHECKED GENERAL TOLERANCE PROJECTION METHOD REVISION DATE (YYYY-MM-DD) BBo 001.001 2022-09-13 DIN ISO 2768-1m HDMI **WR-COM Micro HDMI Horizontal** Würth Elektronik eiSos GmbH & Co. KG **SMT** ORDER CODE EMC & Inductive Solutions WURTH ELEKTRONIK Max-Eyth-Str. 1 685119248123 74638 Waldenburg MORE THAN YOU EXPECT SIZE/TYPE STATUS Tel. +49 (0) 79 42 945 - 0 BUSINESS UNIT PAGE www.we-online.com Type D eiCan Valid 1/5 eiSos@we-online.com

Pin Assignment:

Pin Number	Signal Name	Pin Number	Signal Name	
1	TMDS 2+	11	TMDS Clock Shield	
2	TMDS 2 Shield	12	TMDS Clock -	
3	TMDS 2-	13	CEC	
4	TMDS 1+	14	HEC-	
5	TMDS 1 Shield	15	SCL	
6	TMDS 1-	16	SDA	
7	TMDS 0+	17	Ground	
8	TMDS 0 Shield	18	Power	
9	TMDS 0-	19	Hot Plug/HEC+	
10	TMDS Clock +	Shell	Shield	

Kind Properties:

Durability	5 000 Mating cycles
Connector Type	Mirco HDMI

Material Properties:

Insulator Material	LCP
Insulator Flammability Rating	UL94 V-0
Contact Material	Copper Alloy
Contact Plating 1)	Selective Gold
Shielding Material	Brass
Shielding Plating	Tin
Contact Type	Stamped

¹⁾ Mating side / Solder side

General Information:

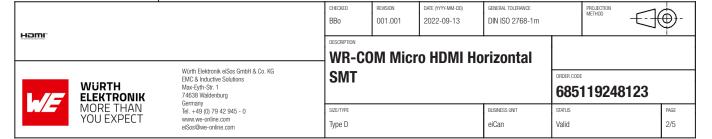
Operating Temperature	-25 up to +85 °C

Electrical Properties:

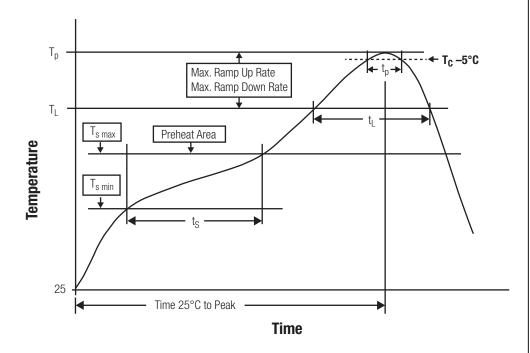
Properties		Value	Unit	Tol.
Rated Current	I _R	0.5	А	
Working Voltage		40	V (AC)	
Withstanding Voltage		250	V (AC)	
Contact Resistance	R	10	mΩ	max.
Insulation Resistance R _k		100	ΜΩ	min.

Certification:

ſ	HDMI Approval	Approved



Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min 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		$T_p \le T_c$, see Table below
Time within 5°C of actual peak temperature		20 - 30 seconds
Ramp-down Rate (T _P to T _L)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature (T_c):

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

refer to IPC/ JEDEC J-STD-020E

натг		BBo	001.001	DATE (YYYY-MM-DD) 2022-09-13	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		∌ - │	
min salama access a armai	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-St. 1 T 74638 Waldenburg T 74638 Waldenburg		WR-CO	WR-COM Micro HDMI Horizontal SMT			ORDER CODE 685119248123			
1,/-	MORE THAN YOU EXPECT					BUSINESS UNIT eiCan	status Valid		- 1	PAGE 3/5

Cautions and Warnings:

The following conditions apply to all goods within the product series of the Connectors of Würth Elektronik eiSos GmbH & Co. KG:

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.

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.

