



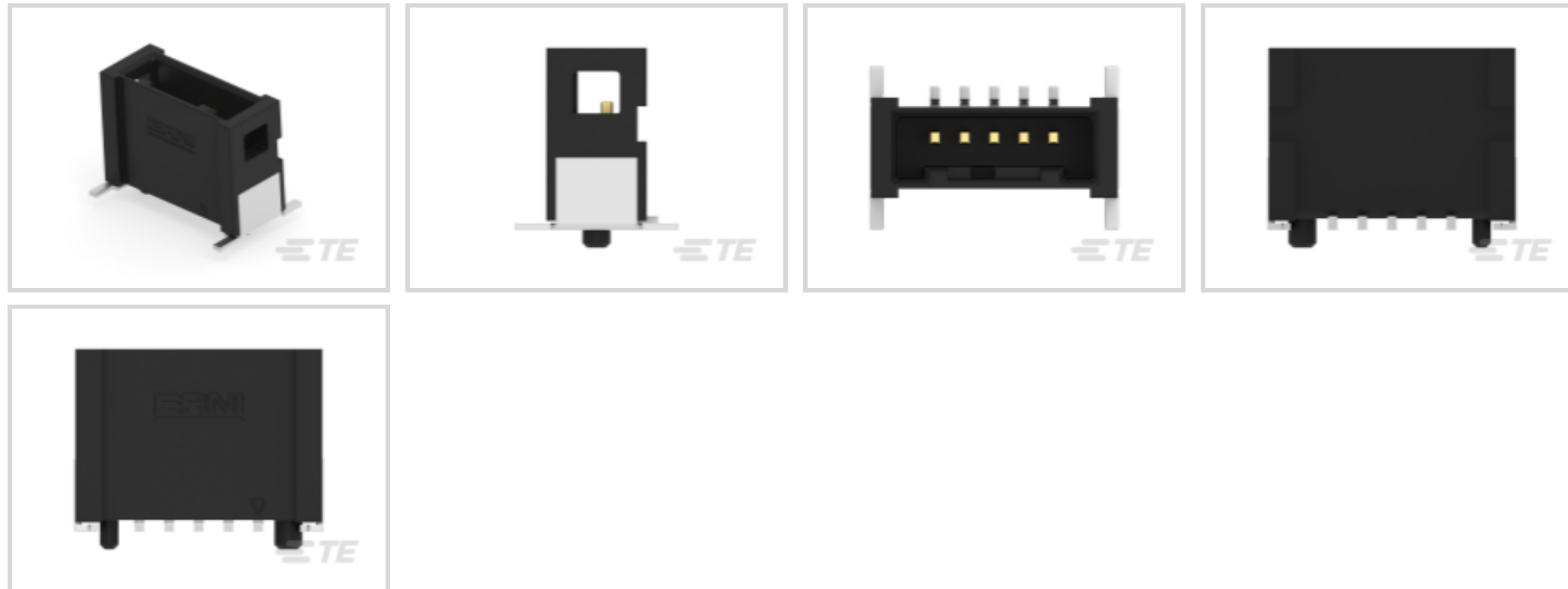
ERNI | ERNI MicroBridge

TE Internal #: 504405-E

PCB Mount Header, Vertical, Board-to-Board, 5 Position, 1.27 mm [.05 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, ERNI MicroBridge

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: **Board-to-Board**

Number of Positions: **5**

Centerline (Pitch): **1.27 mm [.05 in]**

Sealable: **No**

PCB Mount Orientation: **Vertical**

## Features

### Product Type Features

PCB Connector Assembly Type	PCB Mount Header
Header Type	Fully Shrouded
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Number of Columns	5
Number of Loaded Positions	5
Connector Contact Load Condition	Fully Loaded
Number of Positions	5
PCB Mount Orientation	Vertical
Number of Rows	1

### Electrical Characteristics

Insulation Resistance	100 MΩ
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### Body Features

Primary Product Color	Black
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### Contact Features

Contact Mating Area Length	3.5 mm[.138 in]
PCB Contact Termination Area Plating Material Thickness	4 – 6 $\mu\text{m}$ [157.48 – 236.22 $\mu\text{in}$ ]
Contact Layout	Inline
Contact Type	Pin
Contact Shape & Form	Rectangular
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Current Rating (Max)	9 A

### Termination Features

Termination Method to Printed Circuit Board	Surface Mount
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### Mechanical Attachment

Mounting Alignment Feature Length	.75 mm[.029 in]
PCB Mount Alignment Type	Locating Posts
Mating Alignment Type	Polarization Groove
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	Without
Mating Retention Type	Latch
Connector Mounting Type	Board Mount

### Housing Features

Mating Entry Location	Top
Housing Material	PPA
Centerline (Pitch)	1.27 mm[.05 in]

### Dimensions

Connector Length	10.58 mm[.416 in]
Connector Height	7.8 mm[.307 in]
Connector Width	7 mm[.275 in]

### Usage Conditions



Operating Temperature (Max)	150 °C[302 °F]
Operating Temperature Range	-40 – 150 °C[-40 – 302 °F]

### Operation/Application

Circuit Application	Power & Signal
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### Industry Standards

Compatible With Agency/Standards Products	DIN, UL
UL Flammability Rating	UL 94V-0

### Packaging Features

Packaging Method	Tape & Reel
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Compatible Parts




TE Part # 504345-E  
MCBP 2 M \* SMD 137 \* 197 \* GU-H \* J 2.50



TE Part # 504385-E  
MCBP 4 M \* SMD 137 \* 197 \* GU-H \* J 2.50



TE Part # 504425-E  
MCBP 6 M \* SMD 137 \* 197 \* GU-H \* J 2.50



TE Part # 504445-E  
MCBP 8 M \* SMD 137 \* 197 \* GU-H \* J 2.50



TE Part # 504958-E  
MCBA 5 F \* 035 137 \* 197 1,27 TRAY VR2 J



TE Part # 514496-E  
MCBA 14 M \* SMD 137 \* 176 \* GURT C7 J 2




TE Part # 524431-E  
MCBP 5 F 2 035 137 \* 197 1,27 TRAY VR2 J

Also in the Series | ERNI MicroBridge



PCB Headers & Receptacles(28)



Wire-to-Board Connector Assemblies & Housings(9)

Customers Also Bought



TE Part #1-967570-1  
2POS MQS TAB SEALED COD A



TE Part #1-1718562-1  
AMP MCP, SEALED CONNECTOR HOUSING



TE Part #1579008-9  
INSERTION TOOL



TE Part #504265-E  
MCBA 5 M \* SMD 137 \* 176 \* GURT \* J 2.50



TE Part #504285-E  
MCBA 8 M \* SMD 137 \* 176 \* GURT \* J 2.50



TE Part #504305-E  
MCBA 12 M \* SMD 137 \* 176 \* GURT \* J 2.5



TE Part #504345-E  
MCBP 2 M \* SMD 137 \* 197 \* GU-H \* J 2.50



TE Part #524431-E  
MCBP 5 F 2 035 137 \* 197 1,27 TRAY VR2 J



## Documents

### Product Drawings

[MCBP 5 M \\* SMD 137 \\* 197 \\* GU-H \\* J 2 50](#)

English

[MCBP 5 M \\* SMD 137 \\* 197 \\* GU-H \\* J 2 50](#)

German

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_504405-E\\_1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_504405-E\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_504405-E\\_1.3d\\_igs.zip](#)

English

[3D PDF](#)

3D

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[Datasheet - ERNI MicroBridge Automotive Applications](#)

English

### Product Specifications

[108-161172 MicroBridge IDC SMT](#)

English