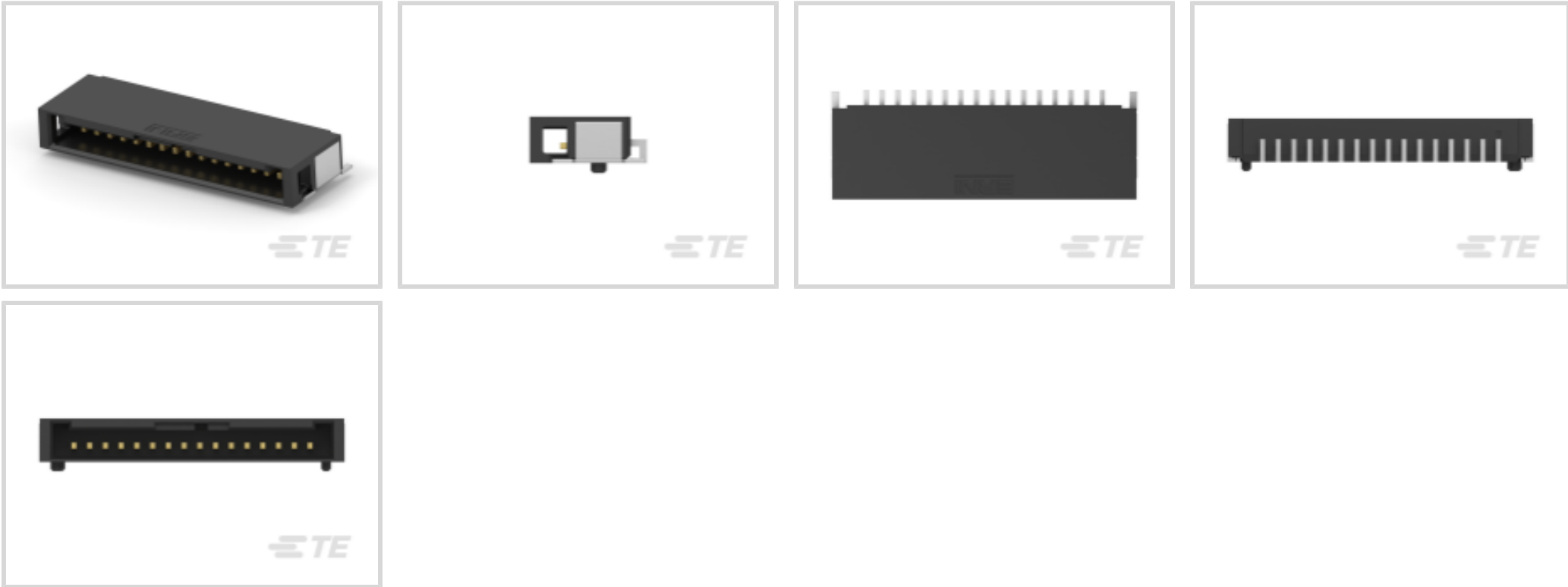




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **16**

Number of Rows: **1**

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

Features

Product Type Features

Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Cable-to-Board
Header Type	Fully Shrouded
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Columns	16
Connector Contact Load Condition	Fully Loaded
Number of Loaded Positions	16
Number of Positions	16
Number of Rows	1
PCB Mount Orientation	Right Angle

Electrical Characteristics



Contact Resistance	5 mΩ
--------------------	------

Insulation Resistance	100 MΩ
-----------------------	--------

Body Features

Primary Product Color	Black
-----------------------	-------

Contact Features

PCB Contact Termination Area Plating Material Thickness	4 – 6 μm[157.48 – 236.22 μin]
---	-------------------------------

Contact Layout	Inline
----------------	--------

Contact Base Material	Copper Alloy
-----------------------	--------------

Contact Mating Area Plating Material	Gold (Au)
--------------------------------------	-----------

Contact Type	Pin
--------------	-----

Contact Current Rating (Max)	9 A
------------------------------	-----

PCB Contact Termination Area Plating Material	Tin
---	-----

Termination Features

Termination Method to PCB	Surface Mount
---------------------------	---------------

Mechanical Attachment

Mating Retention	With
------------------	------

Mating Alignment Type	Polarization Groove
-----------------------	---------------------

Mating Retention Type	Locking
-----------------------	---------

PCB Mount Alignment Type	Locating Posts
--------------------------	----------------

Connector Mounting Type	Board Mount
-------------------------	-------------

Mating Alignment	With
------------------	------

PCB Mount Alignment	With
---------------------	------

PCB Mount Retention	With
---------------------	------

Housing Features

Centerline (Pitch)	1.27 mm [.05 in]
--------------------	------------------

Housing Material	Liquid Crystal Polymer (LCP)
------------------	------------------------------

Usage Conditions

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

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

Operation/Application

Shielded	No
----------	----

Circuit Application	Power & Signal
---------------------	----------------



Industry Standards

UL Flammability Rating	UL 94V-0
------------------------	----------

Packaging Features

Packaging Method	Tape & Reel
------------------	-------------

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	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: FEB 2026 (253) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free
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 # 515944-E
MCBA 10 M * SMD 137 * 176 * GURT
C5 J 2

Also in the Series | ERNI MicroBridge

Board-to-Board Headers & Receptacles(13)

PCB Headers & Receptacles(23)

Rectangular Power Connectors(43)

Standard Rectangular Connectors(20)

Wire-to-Board Connector Assemblies & Housings(2)

Wire-to-Board Headers & Receptacles (2)

Customers Also Bought

TE Part #524441-E
MCBP 6 F 2 035 137 * 197 1,27 TRAY
VR2 J

TE Part #504235-E
MCBA 2 M * SMD 137 * 176 * GURT *
J 2 50

TE Part #464237-E
SRCP 1,27 10 F 1 IDC22 137 E1 162
1,27 T

TE Part #505318-E
MCBA 16 F * 035 137 * 197 1,27 TRAY
VR2

TE Part #504425-E
MCBP 6 M * SMD 137 * 197 * GU-H * J
2 50

TE Part #524226-E
SRCA 6,20 2 M * SMD 137 E-HD 197 *
* * J

TE Part #504275-E
MCBA 6 M * SMD 137 * 176 * GURT *
J 2 50

TE Part #524401-E
MCBP 2 F 2 035 137 * 197 1,27 TRAY
VR2 J



Documents

CAD Files

Customer View Model

ENG_CVM_CVM_504325-E_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_504325-E_1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_504325-E_1.2d_dxf.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

Qualification Results MicroBridge SMT IDC

English