

234478-E ✓ ACTIVE

ERNI | ERNI MiniBridge

TE Internal #: 234478-E

PCB Mount Header, Right Angle, Cable-to-Board, 12 Position, 1.27 mm [.05 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, ERNI MiniBridge

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **12**

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	12
Number of Loaded Positions	12
Connector Contact Load Condition	Fully Loaded
Number of Positions	12
Number of Rows	1
PCB Mount Orientation	Right Angle

Electrical Characteristics



Insulation Resistance	10000 MΩ
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Body Features

Primary Product Color	Black
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Contact Features

PCB Contact Termination Area Plating Material Thickness	4 – 6 μm[157.48 – 236.22 μin]
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Contact Shape & Form	Rectangular
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Contact Layout	Inline
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Contact Mating Area Length	2.5 mm[.098 in]
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Contact Base Material	Copper Alloy
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Contact Mating Area Plating Material	Gold (Au)
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Contact Type	Pin
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Contact Current Rating (Max)	3.6 A
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PCB Contact Termination Area Plating Material	Tin
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Termination Features

Termination Method to PCB	Surface Mount
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Mechanical Attachment

Mating Retention Type	Friction Lock
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Mounting Alignment Feature Length	.75 mm[.029 in]
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Mating Retention	With
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Mating Alignment Type	Polarization
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PCB Mount Alignment Type	Pegs
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Connector Mounting Type	Board Mount
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Mating Alignment	With
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PCB Mount Alignment	With
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PCB Mount Retention	Without
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Housing Features

Mating Entry Location	Side
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Centerline (Pitch)	1.27 mm[.05 in]
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Housing Material	Liquid Crystal Polymer (LCP)
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Dimensions

Connector Width	7.2 mm[.283 in]
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Connector Height	2.98 mm[.117 in]
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Profile Height from PCB	2.98 mm[.117 in]
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Connector Length	20.32 mm[.8 in]
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Usage Conditions

Operating Temperature (Max)	150 °C[302 °F]
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Operating Temperature Range	-55 – 150 °C[-67 – 302 °F]
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Operation/Application

Assembly Process Feature	Pick and Place Cover
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Circuit Application	Power & Signal
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Industry Standards

Compatible With Agency/Standards Products	DIN, UL
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Industry Standard	IEC
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UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Reel Diameter	330 mm[12.99 in]
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Packaging Quantity	1000
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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
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EU ELV Directive 2000/53/EC	Compliant
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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
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
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Halogen Content	Not Yet Reviewed for halogen content
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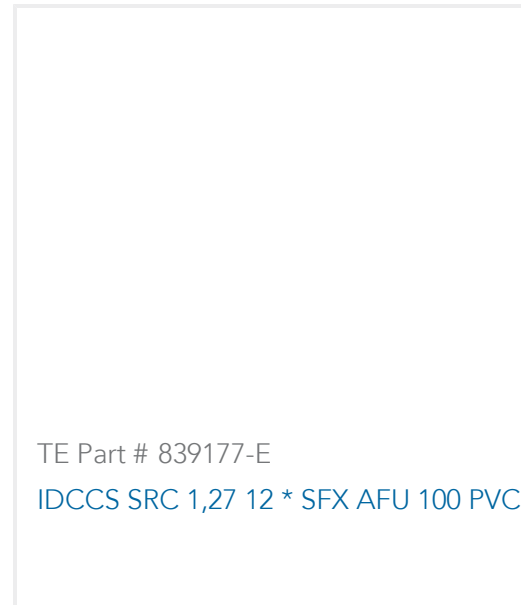
Solder Process Capability	Not reviewed for solder process capability
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Product Compliance Disclaimer

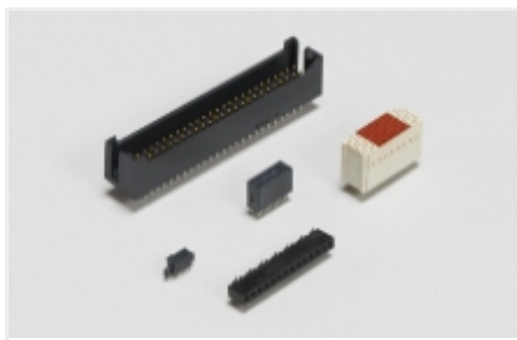
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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>

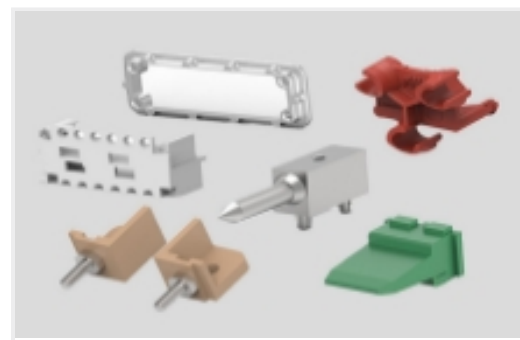
Compatible Parts



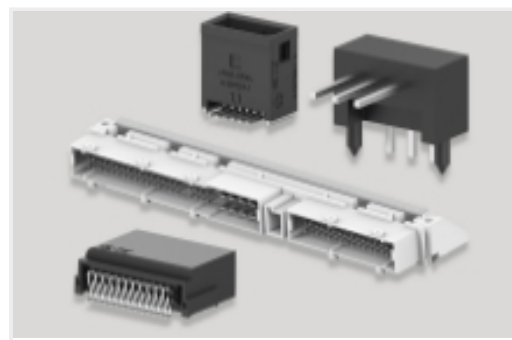
Also in the Series | **ERNI MiniBridge**



Board-to-Board Headers & Receptacles(1)



Connector Hardware(1)



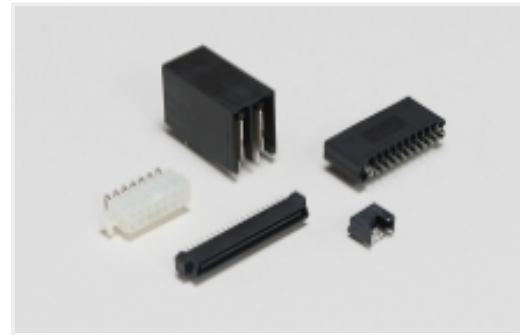
PCB Headers & Receptacles(56)



Pluggable I/O Cable Assemblies(24)



Rectangular Power Connectors(72)



Standard Rectangular Connectors(16)

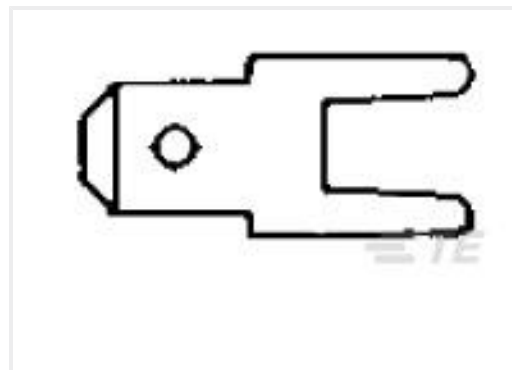
Customers Also Bought



TE Part #234450-E
SRCA 1,27 3 M 1 SMD 137 E1 094 *
GURT *



TE Part #354939-E
SMCQ 12 F AB VV 7-03 CL * 0007 137
E002



TE Part #726388-2
187 FASTON TAB TPBR



TE Part #1393258-4
V23047-A1012-A501



TE Part #1676266-2
RN 0805 24K9 0.1% 10PPM 1KRL



TE Part #1676405-2
RN 0805 66K5 0.1% 10PPM 1KRL



TE Part #3-1879208-1
CPF 0402 180R 0.1% 25PPM 1K RL



TE Part #1879216-2
CPF 0402 51K1 0.1% 25PPM 1K RL



TE Part #3-1879216-4
CPF0402 180K 0.1% 25PPM 1K RL



TE Part #2170703-1
CAGE ASSEMBLY, QSFP28 1X1,
SPRING

Documents



CAD Files

Customer View Model

[ENG_CVM_CVM_234478-E_1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_234478-E_1.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_234478-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.

Product Specifications

Application Specification

English

Application Specification

English