



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **80**

Number of Rows: **2**

## Features

### Product Type Features

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

### Configuration Features

Stacking Configuration	Stack Through
Number of Columns	40
Number of Loaded Positions	80
Stackable	Yes
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	80
Number of Rows	2



Board-to-Board Configuration	Parallel
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### Electrical Characteristics

Dielectric Withstanding Voltage (Max)	500 Vrms
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### Body Features

Connector Profile	High
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Primary Product Color	Black
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### Contact Features

Contact Mating Area Length	4 mm [.157 in]
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PCB Contact Termination Area Plating Material Thickness	4 – 6 $\mu\text{m}$ [157.48 – 236.22 $\mu\text{in}$ ]
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Contact Layout	Matrix
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Contact Shape & Form	Rectangular
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PCB Contact Termination Area Plating Material	Tin
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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)	1 A
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### Termination Features

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

Mounting Alignment Feature Length	.75 mm [.029 in]
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PCB Mount Alignment Type	Locating Posts
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PCB Mount Retention Type	Location Peg
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Mating Alignment	With
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Mating Alignment Type	Polarization
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PCB Mount Retention	With
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PCB Mount Alignment	With
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Connector Mounting Type	Board Mount
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### Housing Features

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



Connector Length	55.88 mm[2.2 in]
Connector Height	9.85 mm[.388 in]
Connector Width	7.2 mm[.283 in]
Profile Height from PCB	9.85 mm[.388 in]
Row-to-Row Spacing	1.27 mm[.05 in]
Stack Height	4.85 mm[.191 in]

### Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]

### Operation/Application

Shielded	No
Circuit Application	Power & Signal

### Industry Standards

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

### Packaging Features

Packaging Reel Diameter	330 mm[12.99 in]
Packaging Quantity	250
Packaging Method	Tape & Reel

### Product Compliance

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

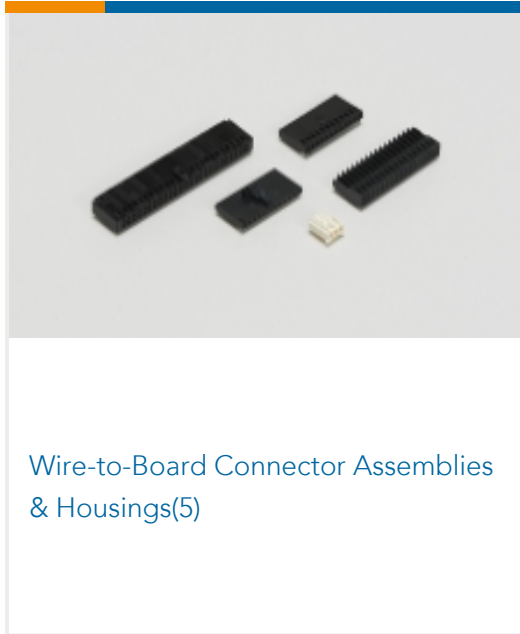
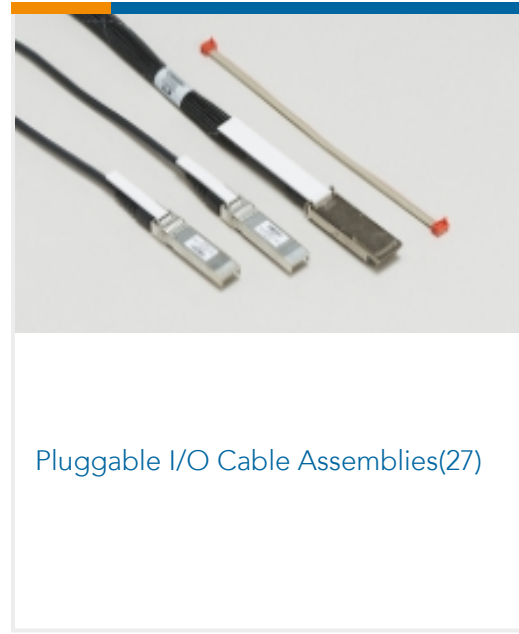
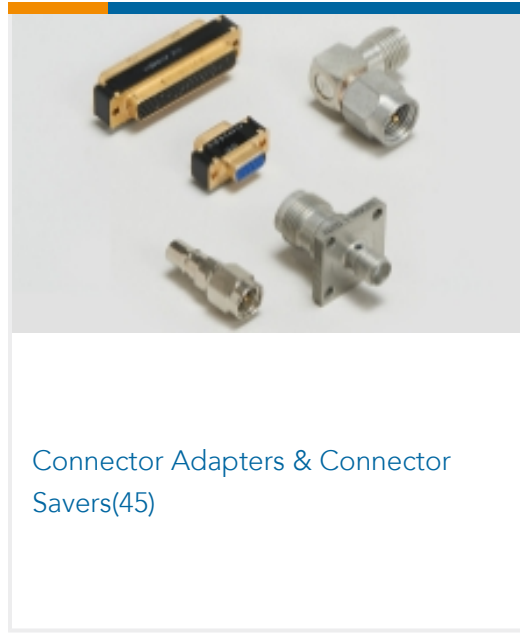
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2023 (235) 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

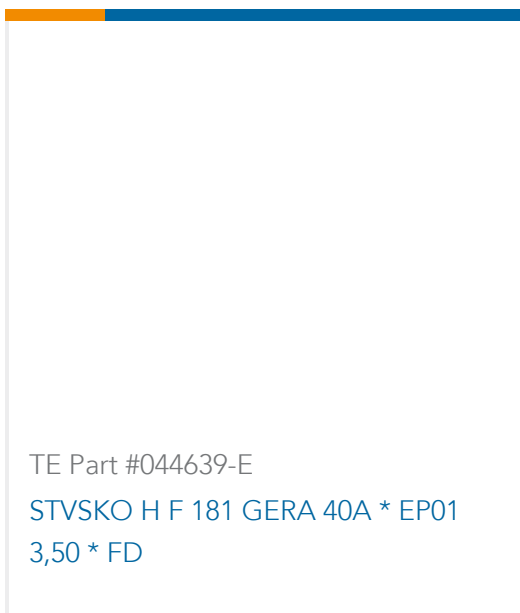
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

Also in the Series | **ERNI SMC**



## Customers Also Bought



## Documents





### Product Drawings

[SMCQ 80 M AB VV 8-23 CL \\* H007 137 E005](#)

English

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### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_234210-E\\_1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_234210-E\\_1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_234210-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.

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### Datasheets & Catalog Pages

[Datasheet - ERNI SMC 1.27mm Connectors](#)

English

[Datasheet - ERNI SMC 1.27mm Connectors](#)

German

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### Product Specifications

[SMC\\_Receptacle\\_with\\_Ribbon\\_Cable\\_IDC\\_and\\_Header](#)

English