



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **40**

Number of Rows: **2**

Features

Product Type Features

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

Configuration Features

Number of Columns	20
Number of Loaded Positions	40
Stacking Configuration	Stack Through
Connector Contact Load Condition	Fully Loaded
Board-to-Board Configuration	Parallel
Stackable	Yes
PCB Mount Orientation	Vertical



Number of Positions	40
Number of Rows	2

Body Features

Connector Profile	Low
Primary Product Color	Black

Contact Features

PCB Contact Termination Area Plating Material Thickness	4 – 6 µm[157.48 – 236.22 µin]
Contact Shape & Form	Dual Beam
Contact Layout	Matrix
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	1.7 A

Termination Features

Termination Method to PCB	Surface Mount
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Mechanical Attachment

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

Housing Features

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

Dimensions

Row-to-Row Spacing	1.27 mm[.05 in]
Stack Height	6.25 mm[.246 in]



Connector Width	7 mm[.276 in]
Connector Height	6.25 mm[.246 in]
Profile Height from PCB	6.25 mm[.246 in]
Connector Length	30.48 mm[1.2 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
Industry Standard	IEC
Compatible With Approved Standards Products	UL
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Reel Diameter	330 mm[12.99 in]
Packaging Quantity	280
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: JAN 2025 (247) 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

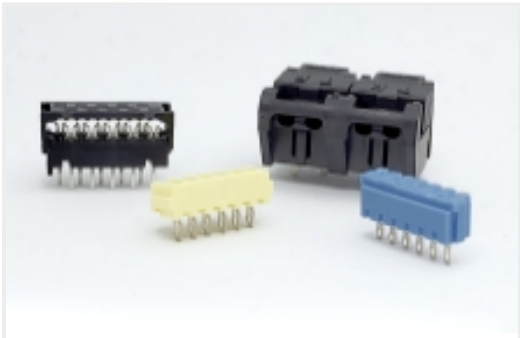
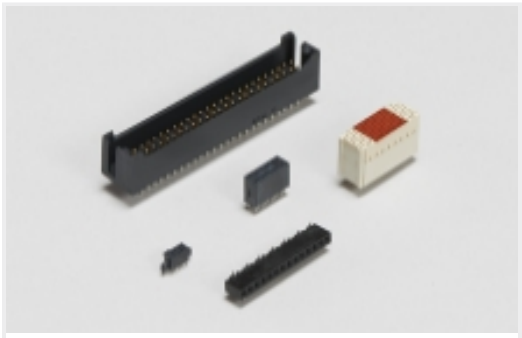

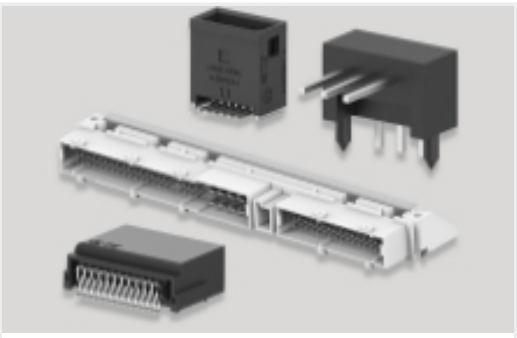



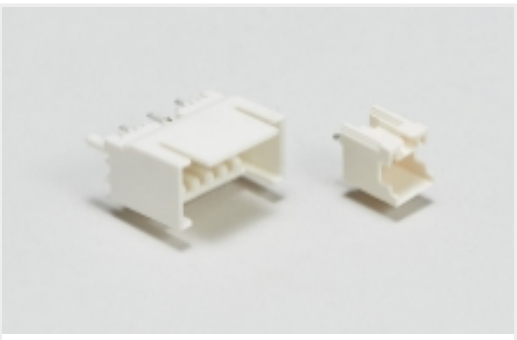


This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 254539-E SMCQ 40 M AB VV 8-03 CL * H007 137 E005	TE Part # 254417-E SMCQ 40 M AB VV 8-23 CL * H007 137 E005	TE Part # 254590-E SMCQ 40 M AB VV 8-13 CL * H007 137 E005	TE Part # 354097-E SMCB 40 M AB VV 7-03 CL * 0007 137 E004

Also in the Series | ERNI SMC

 Board-In Connectors(6)	 Board-to-Board Headers & Receptacles(81)	 Connector Adapters & Connector Savers(45)	 PCB Headers & Receptacles(81)
 Pluggable I/O Cable Assemblies(27)	 Rectangular Power Connectors(81)	 Wire-to-Board Connector Assemblies & Housings(5)	 Wire-to-Board Headers & Receptacles (3)

Customers Also Bought



TE Part #154806-E  
SMCB 26 F AB VV 7-13 CL \* H007 137 E002

TE Part #1241050-3  
2x3P MOD II BREAK AWAY HDR,SMD, BLISTER

TE Part #354097-E  
SMCB 40 M AB VV 7-03 CL \* 0007 137 E004

TE Part #244858-E  
SMCQ 80 M AB VV 8-03 CL \* H007 137 E005

TE Part #244855-E  
SMCQ 26 M AB VV 8-03 CL \* H007 137 E005

TE Part #254590-E  
SMCQ 40 M AB VV 8-13 CL \* H007 137 E005

TE Part #3-2176331-3  
CRGP 2512 4K7 1%

TE Part #292253-6  
CT CONN MT HDR ASSY H 6P NAT

TE Part #6-2301994-1  
RJ45 JACK INT.MAG. 1GB LED 1X1 INV (LOW)

TE Part #3-1393788-6  
V23079B1203B301

Documents

CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_204632-E\\_1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_204632-E\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_204632-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 SMC 1.27mm Connectors](#)

English

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





Datasheet - ERNI SMC 1.27mm Connectors

German