



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **32**

Number of Rows: **2**

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

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	16
Number of Loaded Positions	32
Connector Contact Load Condition	Fully Loaded
Stackable	No
Number of Positions	32
Number of Rows	2
PCB Mount Orientation	Right Angle



Board-to-Board Configuration

Co-Planar, Orthogonal

Electrical Characteristics

Dielectric Withstanding Voltage (Max)	500 Vrms
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Body Features

Connector Profile	Standard
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
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Receptacle
Contact Current Rating (Max)	1.7 A
PCB Contact Termination Area Plating Material	Tin

Termination Features

Termination Method to PCB	Surface Mount
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Mechanical Attachment

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

Housing Features

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

Dimensions

Connector Width	9.6 mm[.378 in]
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Connector Height	3.85 mm[.151 in]
Connector Length	25.4 mm[1 in]
Profile Height from PCB	3.85 mm[.151 in]
Row-to-Row Spacing	1.27 mm[.05 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	560
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: JUNE 2025 (250) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 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 # 254416-E
SMCQ 32 M AB VV 8-23 CL * H007 137 E005

TE Part # 354079-E
SMCQ 20 F AB VV 7-03 CL * 0007 137 E002

TE Part # 254589-E
SMCQ 32 M AB VV 8-13 CL * H007 137 E005

TE Part # 254538-E
SMCQ 32 M AB VV 8-03 CL * H007 137 E005

TE Part # 354078-E
SMCQ 16 F AB VV 7-03 CL * 0007 137 E002

TE Part # 354096-E
SMCB 32 M AB VV 7-03 CL * 0007 137 E004

Also in the Series | ERNI SMC

Board-In Connectors(6)

Board-to-Board Headers & Receptacles(79)

Connector Adapters & Connector Savers(41)

PCB Headers & Receptacles(79)



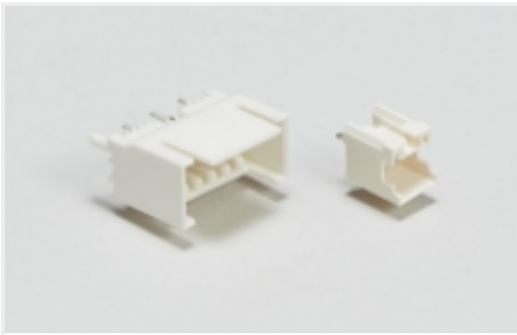
Pluggable I/O Cable Assemblies(27)



Rectangular Power Connectors(84)



Wire-to-Board Connector Assemblies & Housings(5)

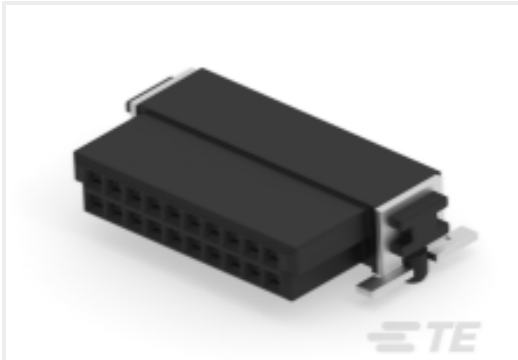


Wire-to-Board Headers & Receptacles (3)

Customers Also Bought



TE Part #168330-E
IDCCS SMC 1,27 32 * AU AUI 300 PVC



TE Part #354079-E
SMCQ 20 F AB VV 7-03 CL * 0007 137 E002



TE Part #284697-E
SRCP 1,27 4 M 1 SMD 137 E1 094 * GU-H *



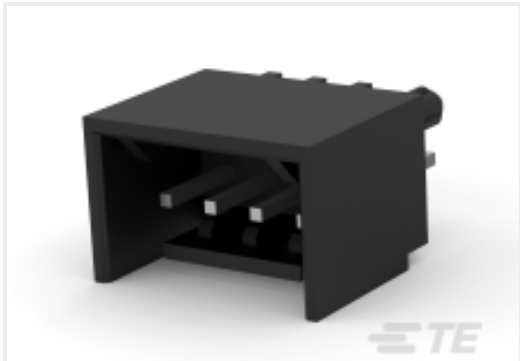
TE Part #284696-E
SRCP 1,27 3 M 1 SMD 137 E1 094 * GU-H *



TE Part #354096-E
SMCB 32 M AB VV 7-03 CL * 0007 137 E004



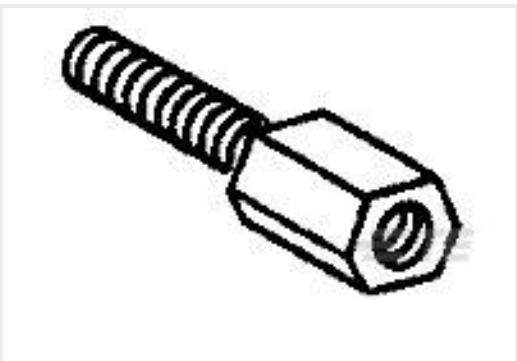
TE Part #1-640454-0
10P MTA100 HDR ASSY SQ STR POL



TE Part #CAT-104MTA-PVSHH
Polyester Vertical PCB Header: 2.54 mm, Shrouded, MTA 100



TE Part #2177419-3
32POS,TAB 0.5X0.4,HEADER ASSY, CODA



TE Part #5747877-3
FEMALE SCREWLOCK ZINC CLEAR

Documents

Product Drawings

SMCQ 32 F AB VV 7-03 CL * 0007 137 E002

English

CAD Files

Customer View Model

ENG_CVM_CVM_354080-E_1.3d_stp.zip

English

Customer View Model



[ENG_CVM_CVM_354080-E_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_354080-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