



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**
PCB Mount Orientation: **Right Angle**
Connector System: **Board-to-Board, Wire-to-Board**
Number of Positions: **12**
Centerline (Pitch): **1.27 mm [.05 in]**

Features

Product Type Features

PCB Connector Type	PCB Mount Header
Connector System	Board-to-Board, Wire-to-Board
Header Type	Fully Shrouded
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Columns	6
Number of Loaded Positions	12
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Right Angle
Number of Positions	12
Number of Rows	2
Board-to-Board Configuration	Orthogonal, Parallel

Electrical Characteristics



Contact Resistance	25 mΩ
Dielectric Withstanding Voltage (Max)	500 Vrms

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]
Contact Layout	Matrix
Contact Mating Area Length	4 mm[.157 in]
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Pin
Contact Current Rating (Max)	1.6 A
PCB Contact Termination Area Plating Material	Tin

Termination Features

Termination Method to PCB	Surface Mount
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Mechanical Attachment

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

Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
Housing Material	Liquid Crystal Polymer (LCP)

Dimensions

Connector Height	4.2 mm[.165 in]
Connector Length	12.7 mm[.5 in]
Row-to-Row Spacing	1.27 mm[.5 in]



Usage Conditions

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

Operation/Application

Circuit Application	Power & Signal
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Industry Standards

Compatible With Agency/Standards Products	IEC, UL
Compatible With Approved Standards Products	UL E84703
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Tape & Reel
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Product Compliance

For compliance documentation, visit the product page on TE.com>

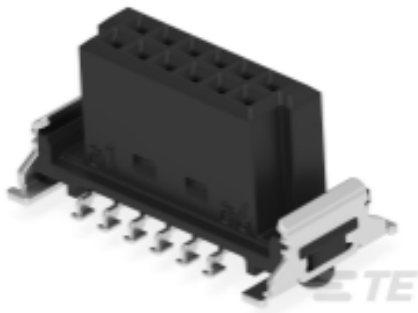
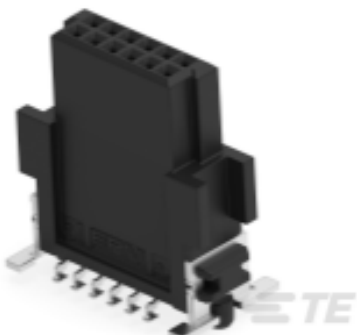
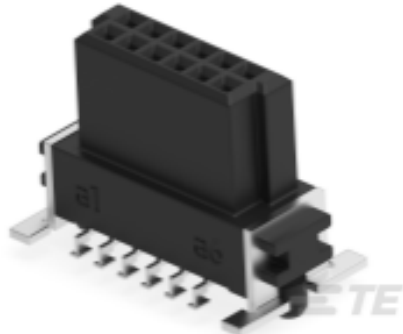
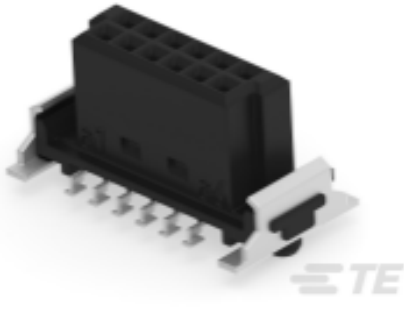
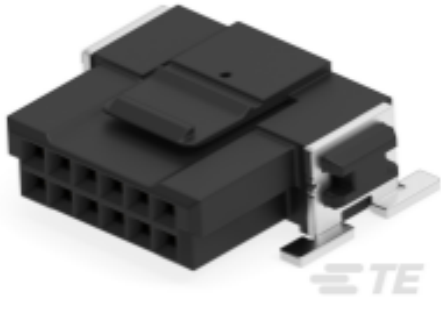
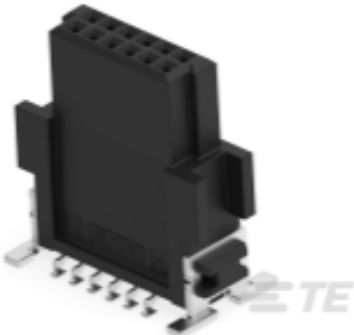
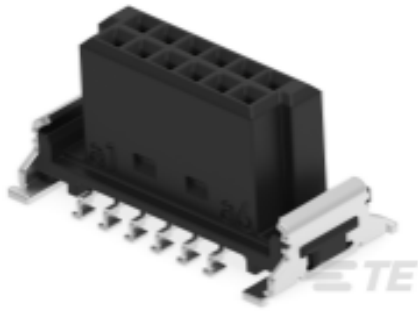
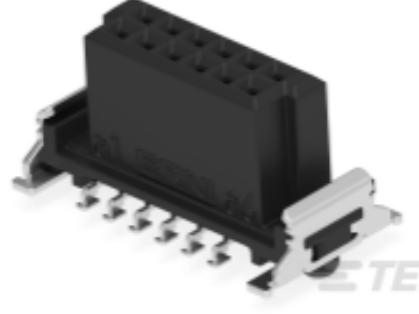
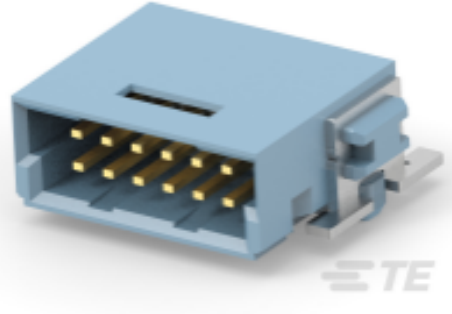
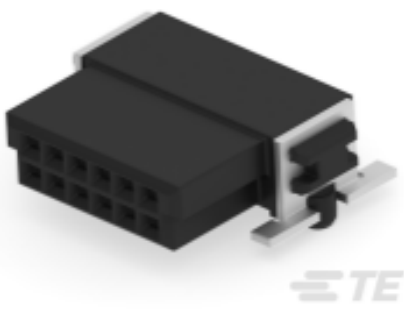
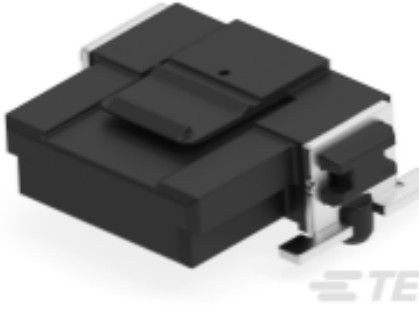
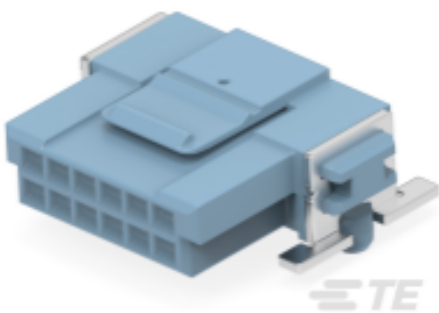
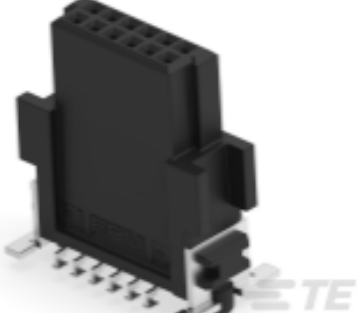
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: FEB 2026 (253) Candidate List Declared Against: JUNE 2023 (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

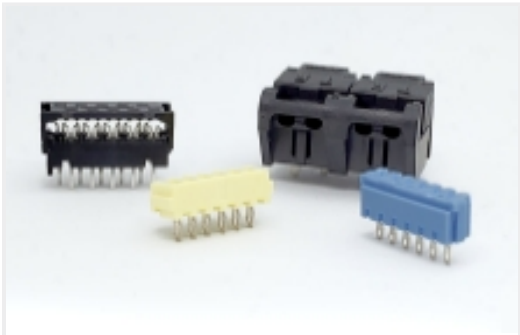
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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



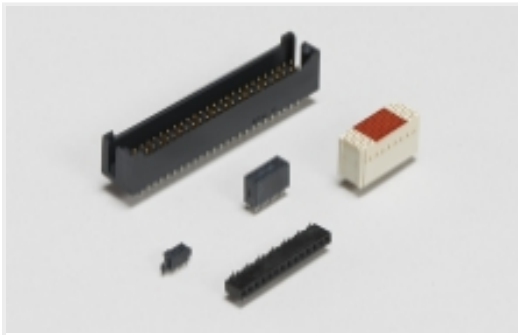
Compatible Parts

 TE Part # 173801-E IDCSS SMC 1,27 12 * AU AUI 300 PVC	 TE Part # 394958-E SMCB 12 F AB VV 7-13 CL * H007 107 E003	 TE Part # 214345-E SMCB 12 F AB VV 6-01 VH * 0008 137 E002	 TE Part # 494543-E SMCB 12 F AB VV 7-23 CL * 9999 137 E002
 TE Part # 154717-E SMCB 12 F AB VV 7-03 CL * H007 137 E002	 TE Part # 154805-E SMCB 12 F AB VV 7-13 CL * H007 137 E002	 TE Part # 173800-E IDCSS SMC 1,27 12 * AU AUI 200 PVC	 TE Part # 534362-E SMCQ 12 F AB VV 7-03 CL * 0007 137 E002
 TE Part # 494616-E SMCB 12 F AB VV 7-23 CL * H007 137 E002	 TE Part # 494615-E SMCB 12 F AB VV 7-13 CL * H007 137 E002	 TE Part # 364743-E SMCB 12 F AB VV 7-13 CL * H007 137 E001	 TE Part # 254273-E SMCB 12 M AB VV 7-03 CL * 0007 137 E004
 TE Part # 154763-E SMCB 12 M AB VV 7-03 CL * 0007 137 E004	 TE Part # 154740-E SMCQ 12 F AB VV 7-03 CL * 0007 137 E002	 TE Part # 354939-E SMCQ 12 F AB VV 7-03 CL * 0007 137 E002	 TE Part # 044663-E SMCB 12 F AB VV 3-01 * 0005 137 POS 05
 TE Part # 254262-E SMCQ 12 F AB VV 7-03 CL * 0007 137 E002	 TE Part # 494222-E SMCQ 12 F AB VV 7-03 CL * 0007 137 E002	 TE Part # 335042-E SMCQ 12 F AB VV 7-03 CL * 0007 137 E002	 TE Part # 234198-E SMCB 12 F AB VV 7-23 CL * H007 137 E002

Also in the Series | ERNI SMC



Board-In Connectors(6)



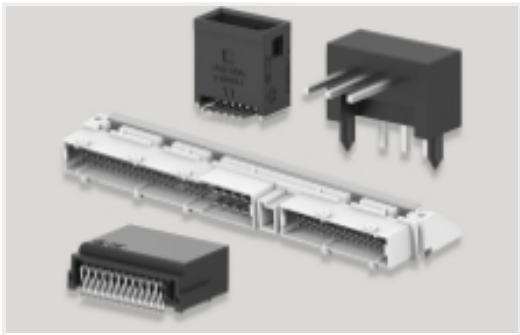
Board-to-Board Headers & Receptacles(79)



Connector Adapters & Connector Savers(41)



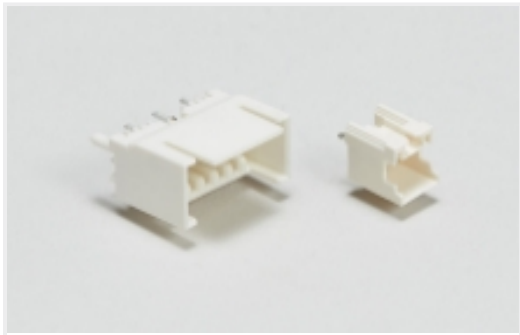
High Speed I/O Cable Assemblies(27)



PCB Headers & Receptacles(79)

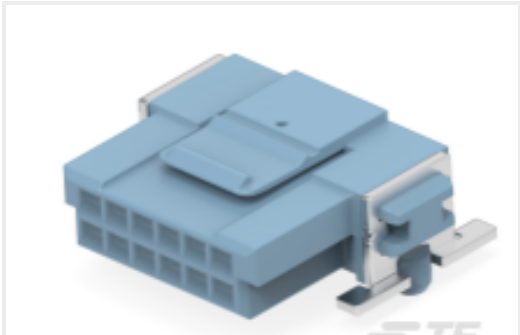


Rectangular Power Connectors(84)



Wire-to-Board Headers & Receptacles (3)

Customers Also Bought



TE Part #254262-E
SMCQ 12 F AB VV 7-03 CL * 0007 137 E002



TE Part #2-406549-1
IMJ,1X1,PNL GRD,LED(G/Y), SN



TE Part #1622298-1
LR1 1% 10K



TE Part #1-1825027-1
FSMRA4JH04=R/A,TACT PB SW,160G



TE Part #1-2199119-6
M.2 0.5PITCH 3.2H KEY M 30U" AU



TE Part #2309411-1
DDR4 SODIMM 260P 8.0H STD



TE Part #2309413-1
DDR4 SODIMM 260P 9.2H STD

Documents

Product Drawings

SMCB 12 M AB VV 7-03 CL * 0007 137 E004

German

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_354949-E_D.3d_igs.zip



English

Customer View Model

[ENG_CVM_CVM_354949-E_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_354949-E_D.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

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

English

Product Specifications

[Product Specification](#)

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