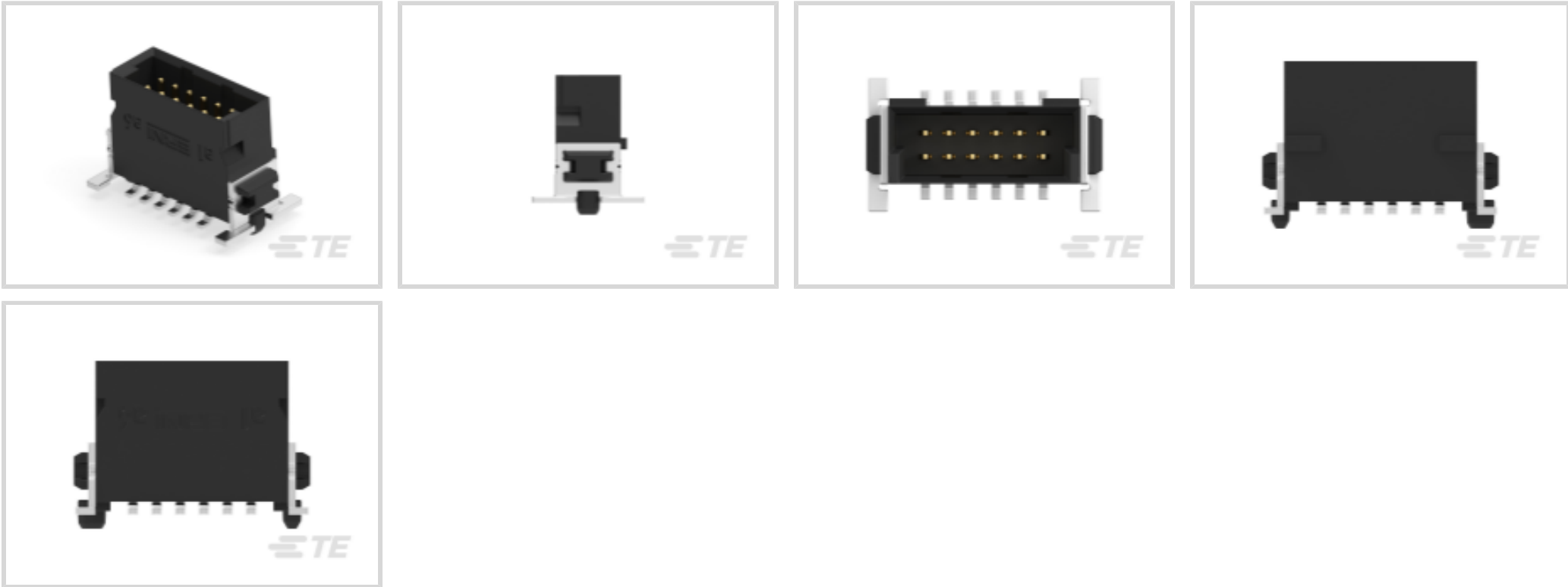




Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **12**

Number of Rows: **2**

Features

Product Type Features

Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Fully Shrouded
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Stacking Configuration	Stack Through
Number of Columns	6
Number of Loaded Positions	12
Stackable	Yes
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	12
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	Standard
Primary Product Color	Black

Contact Features

Contact Mating Area Length	4 mm[.157 in]
PCB Contact Termination Area Plating Material Thickness	4 – 6 µm[157.48 – 236.22 µin]
Contact Layout	Matrix
Contact Shape & Form	Rectangular
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Pin
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]
PCB Mount Alignment Type	Locating Posts
PCB Mount Retention Type	Location Peg
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions



Connector Length	12.7 mm[.5 in]
Connector Height	8.25 mm[.325 in]
Connector Width	7.2 mm[.283 in]
Profile Height from PCB	8.25 mm[.325 in]
Row-to-Row Spacing	1.27 mm[.05 in]
Stack Height	3.25 mm[.128 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	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	Compliant
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 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free



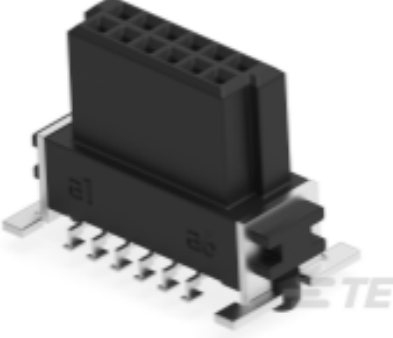
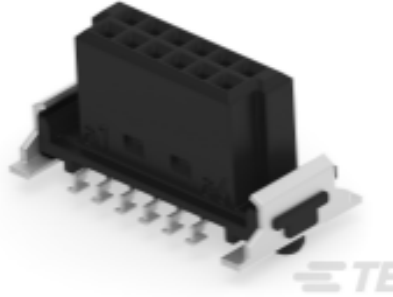
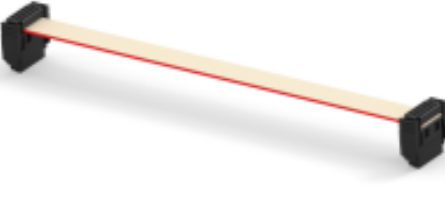
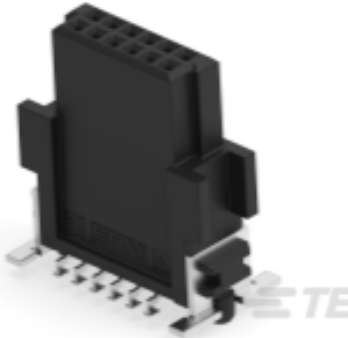
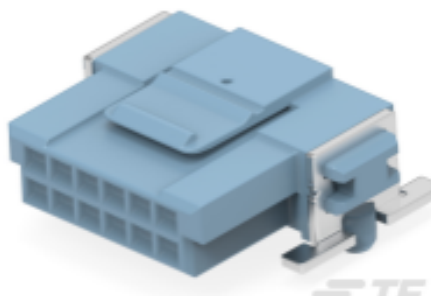
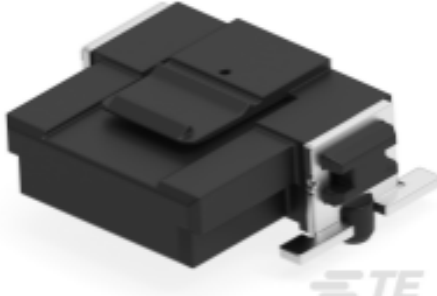
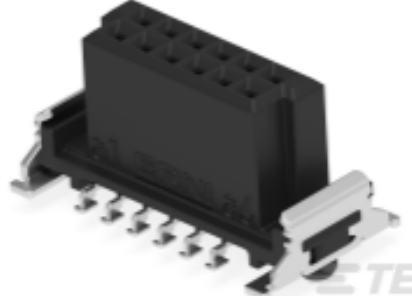
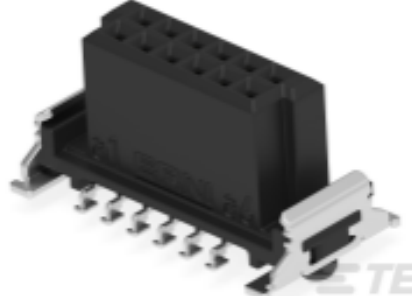
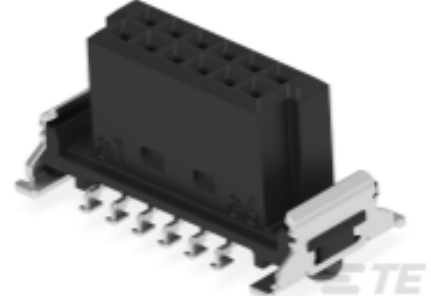
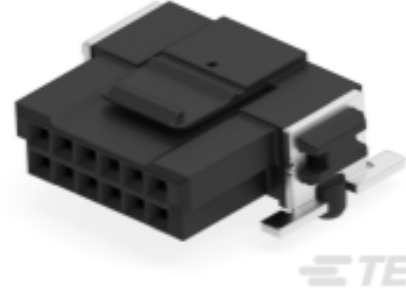
Solder Process Capability

Not reviewed for solder process capability

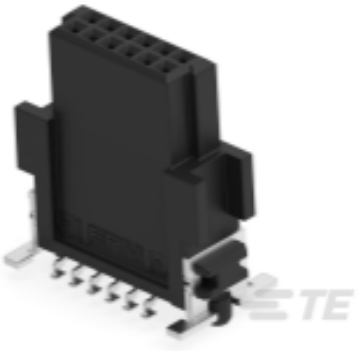
Product Compliance Disclaimer

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>

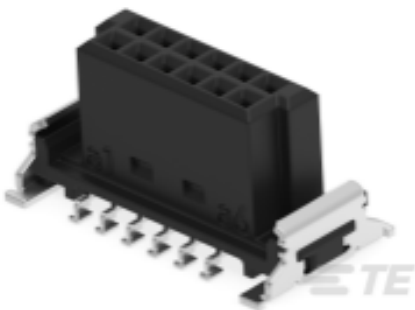
Compatible Parts

 TE Part # 154717-E SMCB 12 F AB VV 7-03 CL * H007 137 E002	 TE Part # 154740-E SMCQ 12 F AB VV 7-03 CL * 0007 137 E002	 TE Part # 154805-E SMCB 12 F AB VV 7-13 CL * H007 137 E002	 TE Part # 173799-E IDCCS SMC 1,27 12 * AU AUI 100 PVC E002
 TE Part # 214345-E SMCB 12 F AB VV 6-01 VH * 0008 137 E002	 TE Part # 234198-E SMCB 12 F AB VV 7-23 CL * H007 137 E002	 TE Part # 254262-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 # 364743-E SMCB 12 F AB VV 7-13 CL * H007 137 E001	 TE Part # 394958-E SMCB 12 F AB VV 7-13 CL * H007 107 E003	 TE Part # 494222-E SMCQ 12 F AB VV 7-03 CL * 0007 137 E002

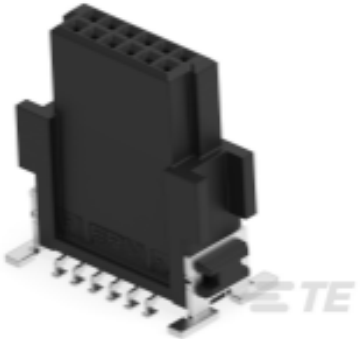




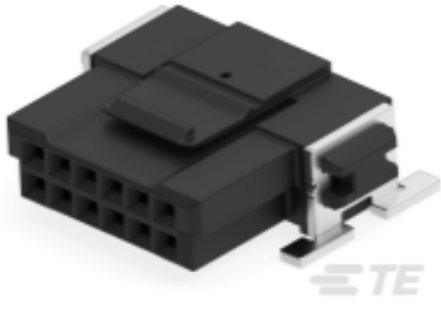
TE Part # 494543-E
SMCB 12 F AB VV 7-23 CL * 9999 137 E002



TE Part # 494615-E
SMCB 12 F AB VV 7-13 CL * H007 137 E002



TE Part # 494616-E
SMCB 12 F AB VV 7-23 CL * H007 137 E002



TE Part # 534362-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

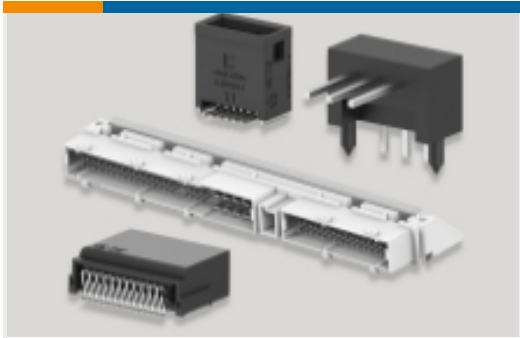
Also in the Series | ERNI SMC



Board-In Connectors(6)



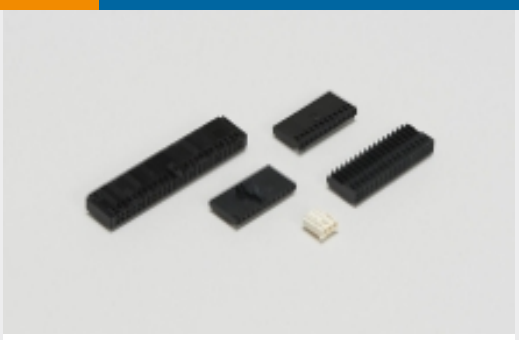
Connector Adapters & Connector Savers(45)



PCB Headers & Receptacles(81)



Pluggable I/O Cable Assemblies(27)

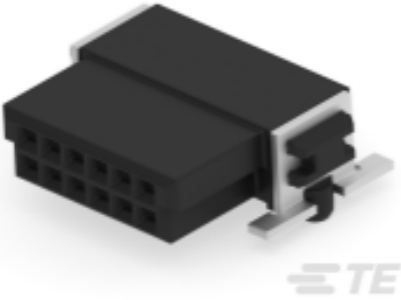


Wire-to-Board Connector Assemblies & Housings(5)

Customers Also Bought



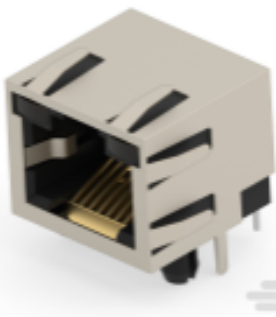
TE Part #364084-E
Board-to-Board Adapter, Vertical, Cable Mount



TE Part #154740-E
SMCQ 12 F AB VV 7-03 CL * 0007 137 E002



TE Part #154763-E
SMCB 12 M AB VV 7-03 CL * 0007 137 E004



TE Part #203535-E
MJ ES R L8 8 8 * * GF5 R * 30 * J 3 2035





TE Part #214801-E
EPSVA KS GDM3 TL 6 3,8 SN *
STROMVERSORG



TE Part #254168-E
MICROS STV 12 9999 188 * 0007 J 3
254168

TE Part #303491-E
STVF 32 M ZB GG 3-00 ZD * * 207 E
016 *

TE Part #114923-E
ERMN 3 F LPEE * 2610 * 181 E3 172
HOST 9



TE Part #294650-E
SRCP 2,54 8 M 1 SMD 137 E1 166 * GU-
H *

Documents

Product Drawings

SMCQ 12 M AB VV 8-03 CL * H007 137 E005

English

SMCQ 12 M AB VV 8-03 CL * H007 137 E005

German

CAD Files

Customer View Model

ENG_CVM_CVM_244854-E_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_244854-E_1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_244854-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.

Datasheets & Catalog Pages

Datasheet - ERNI SMC 1.27mm Connectors

English

Datasheet - ERNI SMC 1.27mm Connectors

German

Product Specifications

244854-E

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



SMC_Receptacle_with_Ribbon_Cable_IDC_and_Header

English