

154809-E ✓ ACTIVE

ERNI | ERNI SMC

TE Internal #: 154809-E

PCB Mount Receptacle, Vertical, Board-to-Board, 80 Position, 1.27 mm [.05 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, ERNI SMC

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **80**

Number of Rows: **2**

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

Features

Product Type Features

Connector Shape	Rectangular
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	40
Number of Loaded Positions	80
Stacking Configuration	Stack Through
Connector Contact Load Condition	Fully Loaded
Stackable	Yes
Number of Positions	80



Number of Rows	2
PCB Mount Orientation	Vertical
Board-to-Board Configuration	Parallel

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
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	1 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	Top
Centerline (Pitch)	1.27 mm[.05 in]
Housing Material	Liquid Crystal Polymer (LCP)

Dimensions

Connector Width	7 mm[.276 in]
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Connector Height	6.25 mm[.246 in]
Profile Height from PCB	6.25 mm[.246 in]
Connector Length	55.88 mm[2.2 in]
Row-to-Row Spacing	1.27 mm[.05 in]
Stack Height	6.25 mm[.246 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	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: JUNE 2025 (250) 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 # 144185-E
SMCQ 80 M AB VV 3-04 * 2,8 0003 137 E001



TE Part # 154767-E
SMCB 80 M AB VV 7-03 CL * 0007 137 E004



TE Part # 244840-E
SMCQ 80 M AB VV 8-13 CL * H007 137 E005



TE Part # 234210-E
SMCQ 80 M AB VV 8-23 CL * H007 137 E005




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

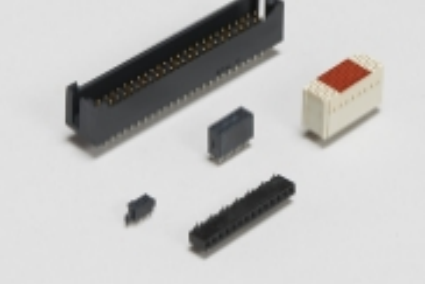


TE Part # CAT-0A3-D127
Board-to-Board Adapter, Vertical, Cable Mount


Also in the Series | ERNI SMC



Board-In Connectors(6)



Board-to-Board Headers & Receptacles(79)



Connector Adapters & Connector Savers(41)



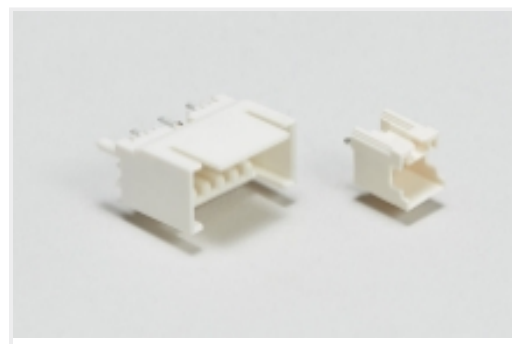
High Speed I/O Cable Assemblies(27)



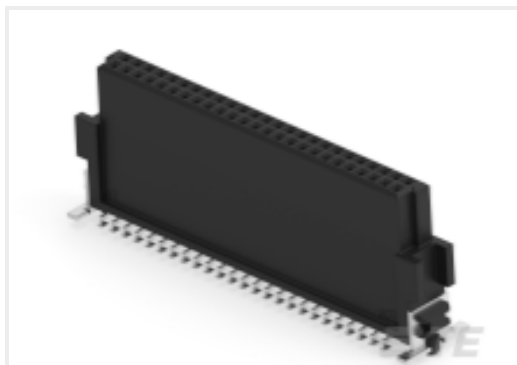
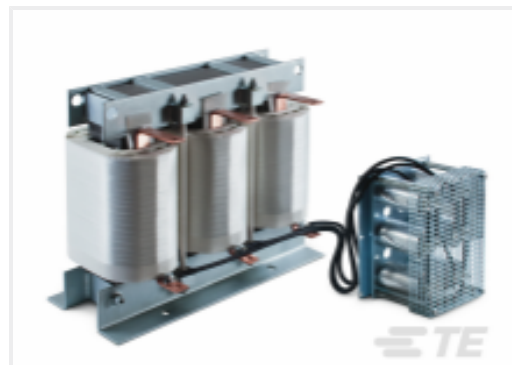
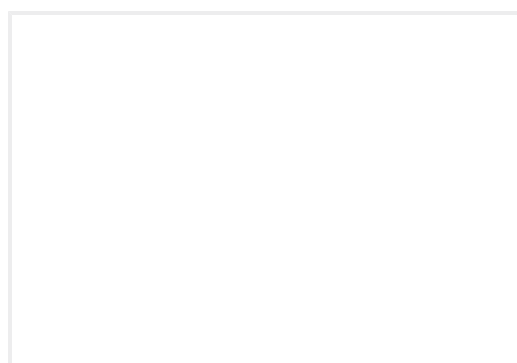
PCB Headers & Receptacles(79)



Rectangular Power Connectors(84)

Wire-to-Board Headers & Receptacles
(3)

Customers Also Bought

TE Part #154767-E
SMCB 80 M AB VV 7-03 CL * 0007 137
E004TE Part #294646-E
SRCP 2,54 2 M 1 SMD 137 E1 166 * GU-
H *TE Part #244858-E
SMCO 80 M AB VV 8-03 CL * H007 137
E005TE Part #294647-E
SRCP 2,54 2 M 1 SMD 137 E1 167 * GU-
H *TE Part #234199-E
SMCB 50 F AB VV 7-23 CL * H007 137
E002TE Part #384471-E
SRCA 2,54 4 M 1 SMD 137 E1 094 *
GURT *TE Part #811108-SF
FN5040HV-75-99TE Part #254538-E
SMCO 32 M AB VV 8-03 CL * H007 137
E005TE Part #5-147323-7
08 MTE HDR SRRA SMT.100CLTE Part #2-2227303-4
CAGE ASSEMBLY, SFP, 1.25MM TAIL

Documents

CAD Files

Customer View Model

[ENG_CVM_CVM_154809-E_1.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_154809-E_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_154809-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