



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**
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

Connector Shape	Rectangular
PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board, Wire-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	6
Number of Loaded Positions	12
Connector Contact Load Condition	Fully Loaded
Stackable	No
PCB Mount Orientation	Right Angle
Number of Positions	12



Number of Rows	2
Board-to-Board Configuration	Co-Planar, Orthogonal

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 Shape & Form	Dual Beam
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	Receptacle
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 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Bromine/Chlorine - Br and Cl < 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 # 234206-E
SMCQ 12 M AB VV 8-23 CL * H007 137 E005

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 # 364742-E
SMCQ 12 M AB VV 8-03 CL * H007 137 E005

TE Part # 515511-E
SMCB 12 M AB VV 7-03 CL * 0007 137 E004

TE Part # 064002-E
SMCQ 12 M AB VV 3-04 * 2,8 0003 137 E001

TE Part # 354949-E
SMCB 12 M AB VV 7-03 CL * 0007 137 E004

TE Part # 335044-E
SMCQ 12 M AB VV 8-03 CL * H007 137 E005

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

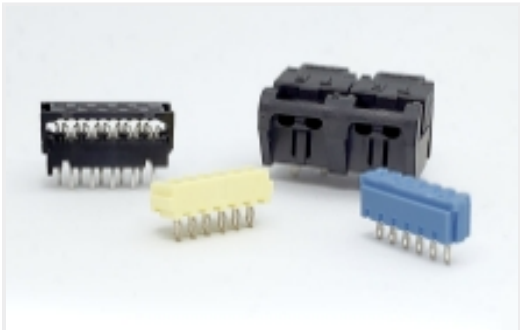
TE Part # 474320-E
SMCQ 12 M AB VV 8-03 CL * H007 137 E005

TE Part # 394959-E
SMCB 12 M AB VV 7-03 CL * 0007 107 E003

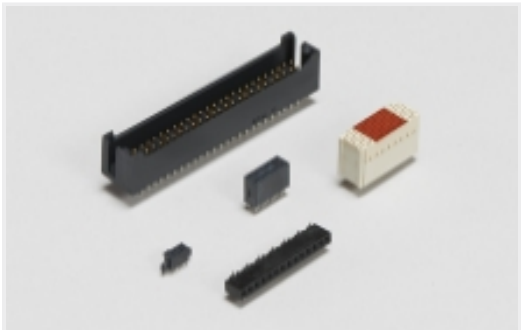
TE Part # 244836-E
SMCQ 12 M AB VV 8-13 CL * H007 137 E005

TE Part # 244854-E
SMCQ 12 M AB VV 8-03 CL * H007 137 E005

Also in the Series | ERNI SMC



Board-In Connectors(6)



Board-to-Board Headers & Receptacles(79)



Pluggable I/O Cable Assemblies(27)



Rectangular Power Connectors(84)



Standard Rectangular Connectors(5)

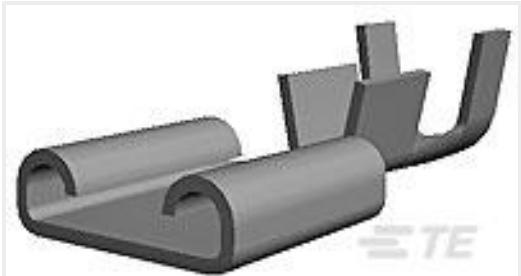


Wire-to-Board Connector Assemblies & Housings(5)

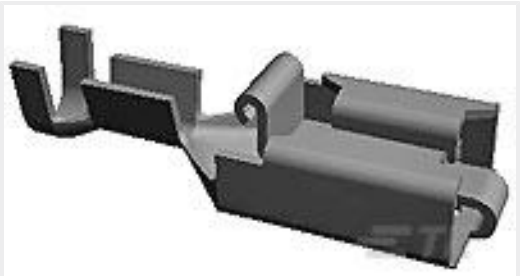
Customers Also Bought



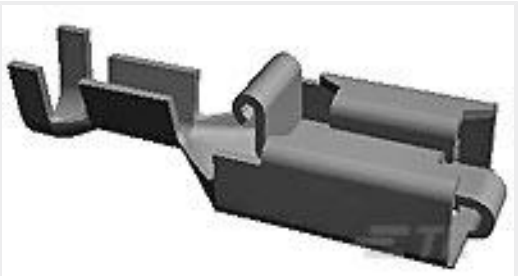
TE Part #5-147279-4
04 MODII HDR DR SFMT B/A T&R LF



TE Part #2-160256-2
250 FASTON,REC.,17-14 AWG,TPBR



TE Part #160759-3
250 PL MKI REC. 20-15AWG TPBR



TE Part #160831-3
250 PL MKI REC. 17-13AWG TPBR



TE Part #350810-1
05P UMNLCAP HSG



TE Part #6-1393243-3
RT424012



TE Part #2-1393480-2
V23529B1121C215=SUB D STIFTLEI



TE Part #5-1625890-3
2W SM M/OX 5% 47R



TE Part #5555003-1
MJ,R/A,6P,PNL,RH LTCH,GRY



TE Part #5-1415898-4
RTS3L009

Documents



CAD Files

Customer View Model

[ENG_CVM_CVM_354939-E_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_354939-E_D.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_354939-E_D.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

Product Specifications

[Product Specification](#)

English