



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **50**

Number of Rows: **2**

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
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

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Rows	2

Electrical Characteristics

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Operating Voltage	10 VDC
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Body Features

Connector Profile	Standard
Primary Product Color	Black

Contact Features

Mating Tab Width	.42 mm[.016 in]
PCB Contact Termination Area Plating Material Thickness	4 – 6 µm[157.48 – 236.22 µin]
Contact Shape & Form	Rectangular
Contact Layout	Matrix
Contact Mating Area Length	4 mm[.157 in]
Contact Base Material	Copper Alloy
Mating Tab Thickness	.3 mm[.012 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Tab
Contact Current Rating (Max)	1.6 A

Termination Features

Termination Method to PCB	Surface Mount
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Mechanical Attachment

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

Housing Features

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

Dimensions

Row-to-Row Spacing	1.27 mm[.05 in]
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Usage Conditions

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Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Operation/Application

Circuit Application	Power & Signal
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Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	280
Packaging Method	Reel

Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

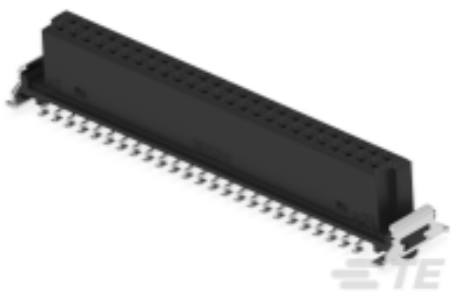
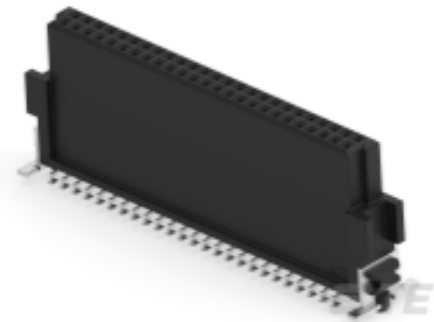
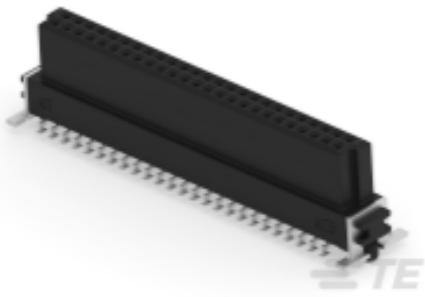
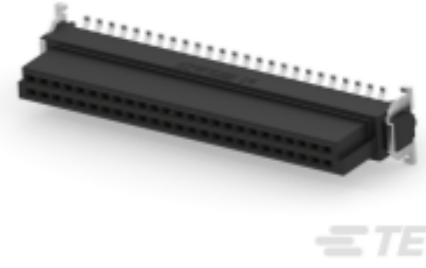
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not 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

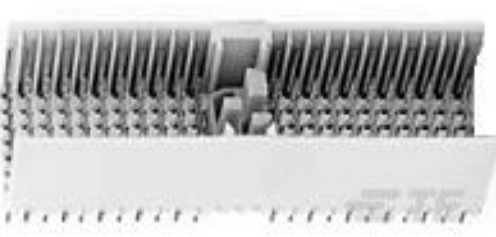
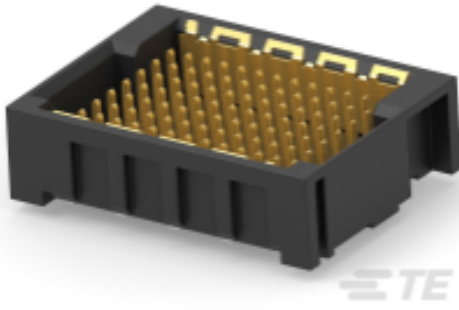
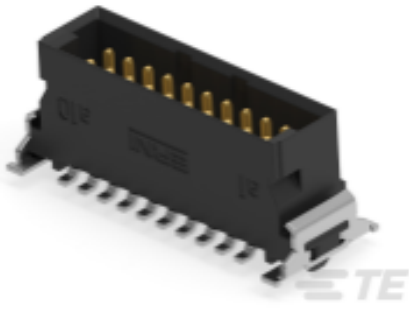
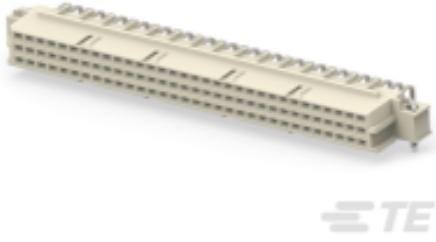
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.



Compatible Parts

 TE Part # 394394-E SMCB 50 F AB VV 7-13 CL * HE07 137 E002	 TE Part # 234199-E SMCB 50 F AB VV 7-23 CL * H007 137 E002	 TE Part # 154742-E SMCQ 50 F AB VV 7-03 CL * 0007 137 E002	 TE Part # 154719-E SMCB 50 F AB VV 7-03 CL * H007 137 E002
 TE Part # 124045-E SMCB 50 F AB VV 6-03 CLHD * H007 137 E00	 TE Part # 474357-E SMCB 50 F AB VV 6-01 VHSL * 0008 137 E00	 TE Part # 454766-E SMCB 50 F AB VV 7-03 CL * H007 137 E002	 TE Part # 024403-E SMCB 50 F AB VV 3-01 * * 0008 137 POS 05
 TE Part # 524657-E SMCB 50 F AB VV 6-01 VHSL * 0008 137 E00	 TE Part # 154807-E SMCB 50 F AB VV 7-13 CL * H007 137 E002	 TE Part # 214347-E SMCB 50 F AB VV 6-01 VH * 0008 137 E002	

Customers Also Bought

 TE Part #100143-1 PACK/A MALE HDR 110P, 2MM HM	 TE Part #364084-E DRCBTB 1,27 26 M BTB20 18,2 137 * 094 TR	 TE Part #146205-1 30 MODII 2PC VRM7 HDR W/LATCH	 TE Part #284809-E M12 MALE, A CODE, 4P, 10.5MM SMT
 TE Part #454700-E MSPEED 91 M SMD M1 B A-G VVV 137 176 *	 TE Part #254588-E SMCQ 20 M AB VV 8-13 CL * H007 137 E005	 TE Part #4-1623749-7 ER17 33R 5% AMMO	 TE Part #284264-E STVR 96 FI ABC VVV 7-03 TL * * 247 E 172



TE Part #5646957-3
UPM R/A Header 7P connector
LSSLSSL

TE Part #244352-E
SMCB 50 M AB VV 7-03 CLVL * 0007
137 E00

Documents

Product Drawings

SMCQ 50 M AB VV 3-03 CLHD * H007 137 E00

German

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_063210-E_J.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_063210-E_J.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_063210-E_J.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Specifications

SMC_Receptacle_with_Ribbon_Cable_IDC_and_Header

English