5146888-1 ✔ ACTIVE

Free Height

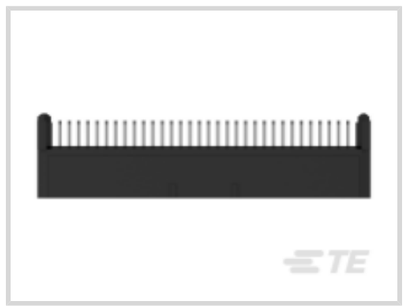
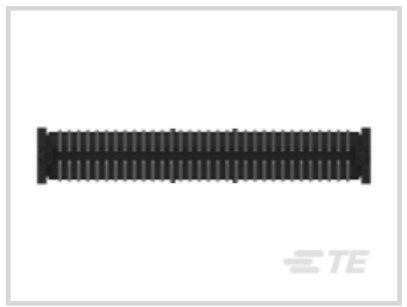
TE Internal #: 5146888-1

PCB Mount Header, Vertical, Board-to-Board, 64 Position, 1 mm [.039 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, Signal, Free Height

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles




PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **64**

Centerline (Pitch): **1 mm [.039 in]**

PCB Mount Orientation: **Vertical**

Features

Product Type Features

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

Number of Columns	32
Stackable	Yes
Number of Positions	64
PCB Mount Orientation	Vertical
Board-to-Board Configuration	Parallel

Electrical Characteristics

Operating Voltage	250 VAC

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Insulation Resistance	2 MΩ

Signal Characteristics

Differential Signaling	Yes

Body Features

Primary Product Color	Black

Contact Features

Contact Underplating Material Thickness	1.27 µm[50 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Mating Tab Width	.63 mm[.024 in]
PCB Contact Termination Area Plating Material Thickness	3.81 µm[150 µin]
Contact Shape & Form	Single Beam
Contact Layout	Inline
Contact Mating Area Length	4.27 mm[.168 in]
Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 µm[29.92 µin]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Pin
Contact Current Rating (Max)	1 A

Termination Features

Rectangular Termination Post & Tail Width	.3 mm[.012 in]
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

Mating Retention	Without
PCB Mount Alignment Type	Locating Posts
Mating Alignment Type	None
Mating Alignment	Without
PCB Mount Alignment	With
PCB Mount Retention	Without

Housing Features

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Mating Entry Location	Top
Centerline (Pitch)	1 mm[.039 in]
Housing Material	Thermoplastic

Dimensions

Connector Width	3.81 mm[.15 in]
Connector Height	8.38 mm[.329 in]
Connector Length	34.22 mm[1.347 in]
Stack Height	10 mm, 12 mm, 13 mm, 15 mm[.591 in]

Usage Conditions

Operating Temperature Range	-55 – 110 °C[-67 – 230 °F]

Operation/Application

Assembly Process Feature	Pick and Place Cover
Circuit Application	Signal

Industry Standards

Compatible With Agency/Standards Products	CSA, UL
Industry Standard	IEEE 1386
UL Rating	Listed
Compatible With Approved Standards Products	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	400
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

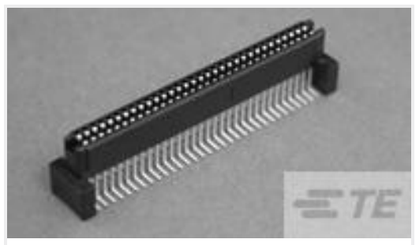
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Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Reflow solder capable to 260°C

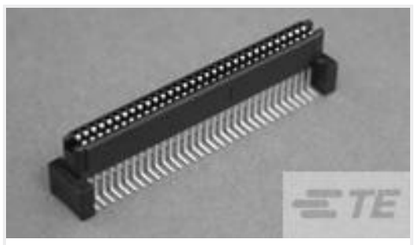
Product Compliance Disclaimer

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

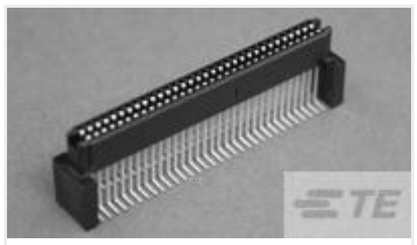
Compatible Parts



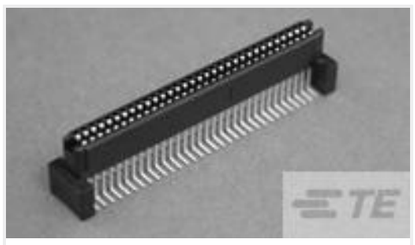
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1FHR,64,50A/S,S,C,S13



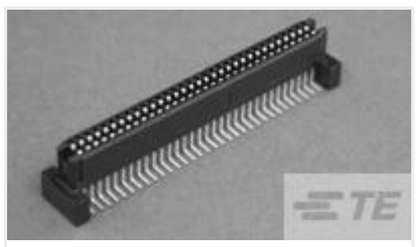
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1FHR,64,50A/S,R,N,S13



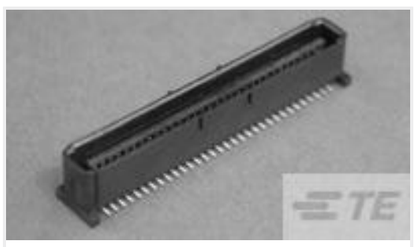
TE Part # 2-5120524-1
1FHR,64,30A/S,R,N,S14,15



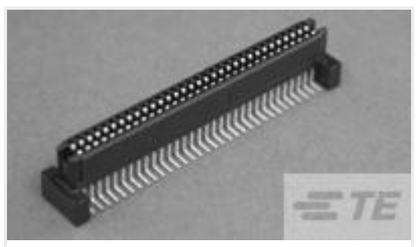
TE Part # 2-5146895-1
1FHR,64,30A/S,R,C,S13



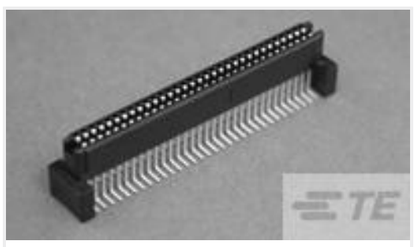
TE Part # 146894-1
1FHR,64,30A/P,S,C,S11,12



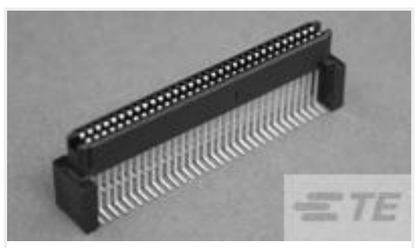
TE Part # 2007042-1
1FHR,64,50A/P,S,C,R08,09,10



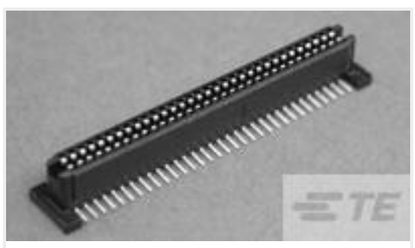
TE Part # 1-5120529-1
1FHR,64,50A/S,N,C,S11,12



TE Part # 120530-1
1FHR,64,30A/P,N,C,S13



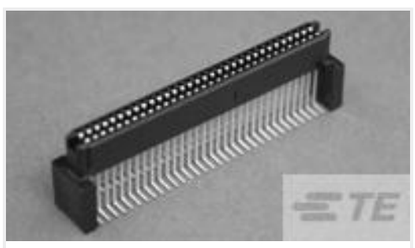
TE Part # 120531-1
1FHR,64,30A/P,N,C,S14,15



TE Part # 1-5146893-1
1FHR,64,50A/S,S,C,S08,09,10

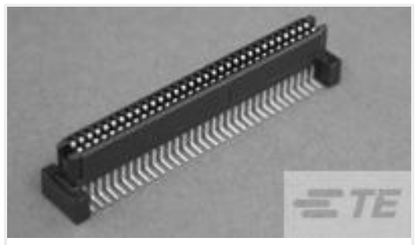


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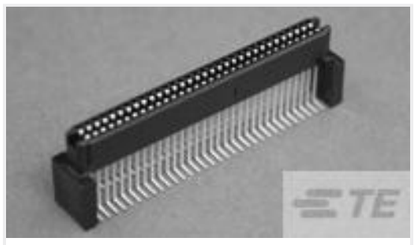


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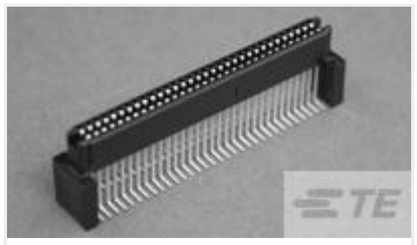
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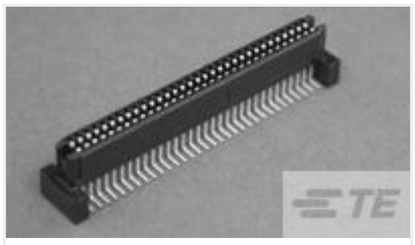
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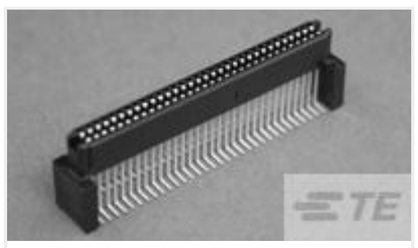
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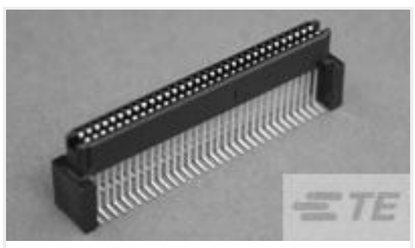
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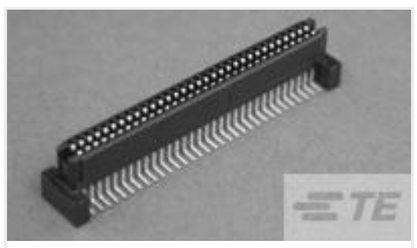
TE Part # 3-5120603-1
1FHR,64,50A/S,R,N,S11,12



TE Part # 3-5120524-1
1FHR,64,50A/S,R,N,S14,15



TE Part # 1-5120524-1
1FHR,64,50A/S,S,N,S14,15

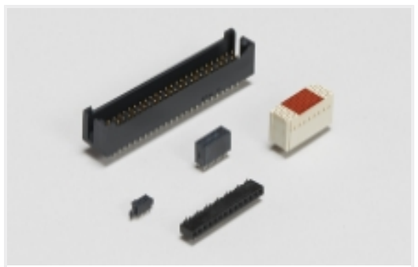


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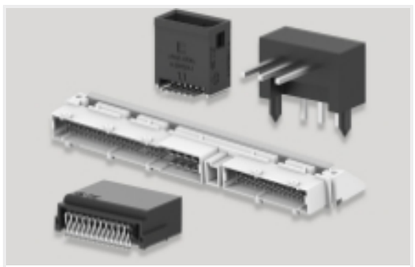


TE Part # 5120523-1
1FHR,64,30A/S,S,N,S13

Also in the Series | Free Height

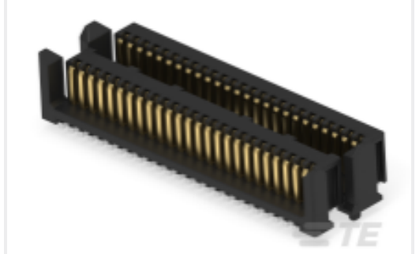


Board-to-Board Headers & Receptacles(737)



PCB Headers & Receptacles(737)

Customers Also Bought



TE Part #114713-E
MICROS STV 50 407 188 * 0007 J 3 114713



TE Part #822612-SF
FN9260B-10-07



TE Part #20011957-01
TSYS03 TEMP SENSOR XDFN6 1.5X1.5MM I2C



TE Part #350429-4
03P UMNL PIN HDR ASSY NATL LF



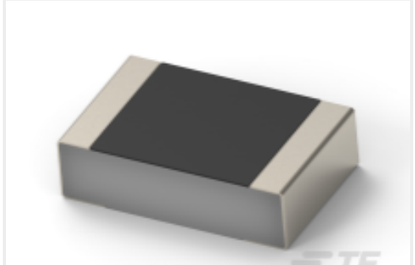
TE Part #4-1622825-7
RL73K 3A R33 5% 4K RL



TE Part #1623720-9
CCR2 47K 10%

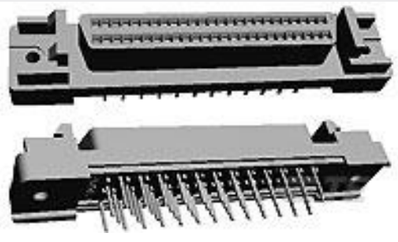


TE Part #8-1625890-0
2W SM M/OX 5% 820K



TE Part #9-2176453-0
CPF 0201 48K7 0.1% 25ppm 1K RL

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TE Part #5749069-8
80 50SR VERT RCPT ASSY



TE Part #5787394-8
80 50SR R/A RCPT ASSY, LD FREE

Documents

Product Drawings

1FHP,64,30A/S,S,C,S10,12,13,15

English

CAD Files

Customer View Model

ENG_CVM_CVM_5146888-1_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5146888-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5146888-1_A.3d_stp.zip

English

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Datasheets & Catalog Pages

Fine Pitch Stacking Connectors - 1.0mm Free Height (FH) (IEEE 1386) Connectors

English

Product Specifications

Application Specification

English

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