

5120530-1 ✓ ACTIVE



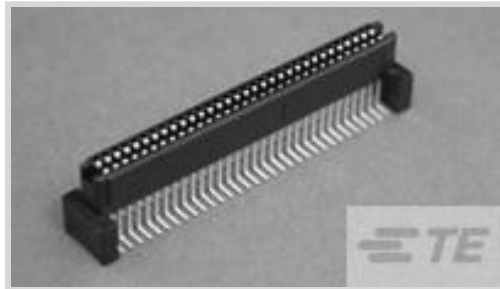
Free Height

TE Internal #: 5120530-1

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

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

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 Receptacle |
| Connector System | Board-to-Board |
| 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 |
| Insulation Resistance | 2 MΩ |

Signal Characteristics

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|------------------------|-----|
| Differential Signaling | Yes |
|------------------------|-----|

Body Features

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|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|



Contact Features

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|---|---|
| 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, Square |
| Contact Layout | Inline |
| 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 | Socket |
| 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 | Without |
| PCB Mount Retention | Without |

Housing Features

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

Dimensions

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|------------------|-----------------|
| Connector Width | 3.81 mm[.15 in] |
| Connector Height | 8.4 mm[.33 in] |



| | |
|------------------|--------------------|
| Connector Length | 34.22 mm[1.347 in] |
|------------------|--------------------|

| | |
|--------------|----------------|
| Stack Height | 13 mm[.512 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

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|--------------------|-----|
| Packaging Quantity | 400 |
|--------------------|-----|

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|------------------|-------------|
| 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 | 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



TE Part # 1-5120527-1
1FHP,64,50A/S,S,N,S10,12,13,15



TE Part # 5120534-1
1FHP,64,30A/S,N,C,S10,12,13,15



TE Part # 146888-1
1FHP,64,30A/P,S,C,S10,12,13,15



TE Part # 5146897-1
1FHP,64,30A/S,S,C,S08



TE Part # 5146888-1
1FHP,64,30A/S,S,C,S10,12,13,15



TE Part # 1-120527-1
1FHP,64,50A/P,S,N,S10,12,13,15



TE Part # 5120527-1
1FHP,64,30A/S,S,N,S10,12,13,15



TE Part # 120534-1
1FHP,64,30A/P,N,C,S10,12,13,15

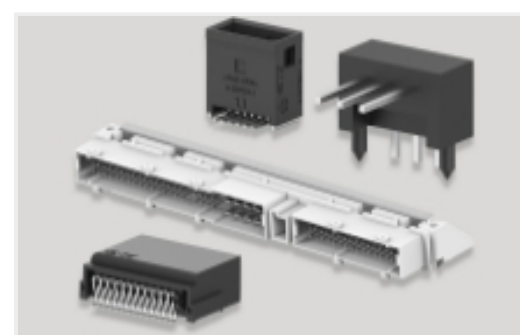


TE Part # 120527-1
1FHP,64,30A/P,S,N,S10,12,13,15

Also in the Series | Free Height

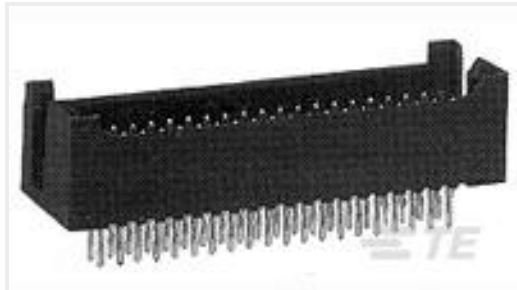


Board-to-Board Headers & Receptacles(737)



PCB Headers & Receptacles(737)

Customers Also Bought



TE Part #6-534978-1
80 MODII 2PC HDR DR W/HLDWN,
ROHS



TE Part #2-1445050-6
MICRO MNL HDR ASSY S/ROW LF



TE Part #1-1462037-6
IM03JR=IM RELAY 140mW 5V



TE Part #1734100-5
Champ050 series, 50pos, Au over PdNi



TE Part #1-1734100-0
Champ050 series, 100pos, Au over PdNi



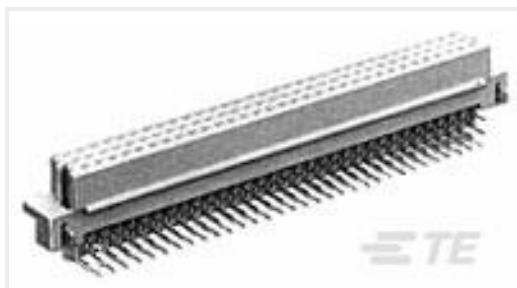
TE Part #1857994-1
Z-PACK/A F-HDR 110P, EON



TE Part #1934316-1
Tin Man Header Assy 4x16 Double



TE Part #5554923-1
RCPT ASSY, R/TANG SHLD, 24 POS



TE Part #5650461-4
ASSY, RECEPTACLE, EUROCARD, TYPE



TE Part #6469169-1
HMZD 2PR RA HDR 40P

Documents

Product Drawings

1FHR,64,30A/S,N,C,S13

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_5120530-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5120530-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5120530-1_A.3d_stp.zip](#)

English

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



Datasheets & Catalog Pages

[Fine Pitch Stacking Connectors - 1.0mm Free Height \(FH\) \(IEEE 1386\) Connectors](#)

English

[Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards Datasheet 3-1773445-8](#)

English

Product Specifications

[Application Specification](#)

English