

7-146277-0 ✓ ACTIVE

AMPMODU

TE Internal #: 7-146277-0

PCB Mount Header, Vertical, Board-to-Board, 20 Position, 2.54 mm
[.1 in] Centerline, Breakaway, Gold, Through Hole - Solder, Signal,
Black, Carton

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **20**

Number of Rows: **1**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| PCB Connector Assembly Type | PCB Mount Header |
| Connector System | Board-to-Board |
| Header Type | Breakaway |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

| | |
|------------------------------|----------|
| PCB Mount Orientation | Vertical |
| Number of Positions | 20 |
| Number of Rows | 1 |
| Board-to-Board Configuration | Parallel |

Body Features

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

Contact Features

| | |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 2.54 - 5.08 μm [100 - 200 μin] |
| Contact Underplating Material Thickness | 1.27 μm [50 μin] |
| PCB Contact Termination Area Plating Material Finish | Matte |
| Contact Shape & Form | Square |
| Contact Underplating Material | Nickel |



| | |
|---|-----|
| PCB Contact Termination Area Plating Material | Tin |
|---|-----|

| | |
|-----------------------|--------------|
| Contact Base Material | Copper Alloy |
|-----------------------|--------------|

| | |
|--------------------------------------|------|
| Contact Mating Area Plating Material | Gold |
|--------------------------------------|------|

| | |
|--|--|
| Contact Mating Area Plating Material Thickness | .76 μm [30 μin] |
|--|--|

| | |
|--------------|-----|
| Contact Type | Pin |
|--------------|-----|

| | |
|------------------------------|-----|
| Contact Current Rating (Max) | 3 A |
|------------------------------|-----|

Termination Features

| | |
|---|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---|-----------------------|

Mechanical Attachment

| | |
|------------------|---------|
| Mating Alignment | Without |
|------------------|---------|

| | |
|---------------------|---------|
| PCB Mount Retention | Without |
|---------------------|---------|

| | |
|---------------------|---------|
| PCB Mount Alignment | Without |
|---------------------|---------|

| | |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

Housing Features

| | |
|--------------------|----------------|
| Centerline (Pitch) | 2.54 mm[.1 in] |
|--------------------|----------------|

| | |
|------------------|-----|
| Housing Material | LCP |
|------------------|-----|

Dimensions

| | |
|-----------------------------|-----------------|
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |
|-----------------------------|-----------------|

Usage Conditions

| | |
|-----------------------------|--|
| Operating Temperature Range | -55 - 125 $^{\circ}\text{C}$ [-67 - 257 $^{\circ}\text{F}$] |
|-----------------------------|--|

Operation/Application

| | |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

| | |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

| | |
|------------------|--------|
| Packaging Method | Carton |
|------------------|--------|

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 2024 (240)

Candidate List Declared Against: JAN 2024 (240)

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

Pin-in-Paste 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



Customers Also Bought





TE Part # 5-104363-1
02 MTE HDR SRST LATCH .100CL



TE Part # 5-104363-2
03 MTE HDR SRST LATCH .100CL



TE Part # 6-103639-9
20 MTE HDR SRST LATCH .100CL



TE Part # 1-321828-0
TERM,SOLIS R 14-12 10,TAPE



TE Part # 1-535541-8
20 MODIV VRT SR CE 100/115



TE Part # HD10-9-96P-N005
SQ FG REC ASM

Documents

Product Drawings

[20 MODII HDR SRST B/A .100CL](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_7-146277-0_E.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_7-146277-0_E.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_7-146277-0_E.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[AMPMODU Interconnection System](#)

[AMPMODU Interconnection System](#)

English