

2177748-3 ✓ ACTIVE

Nano MQS

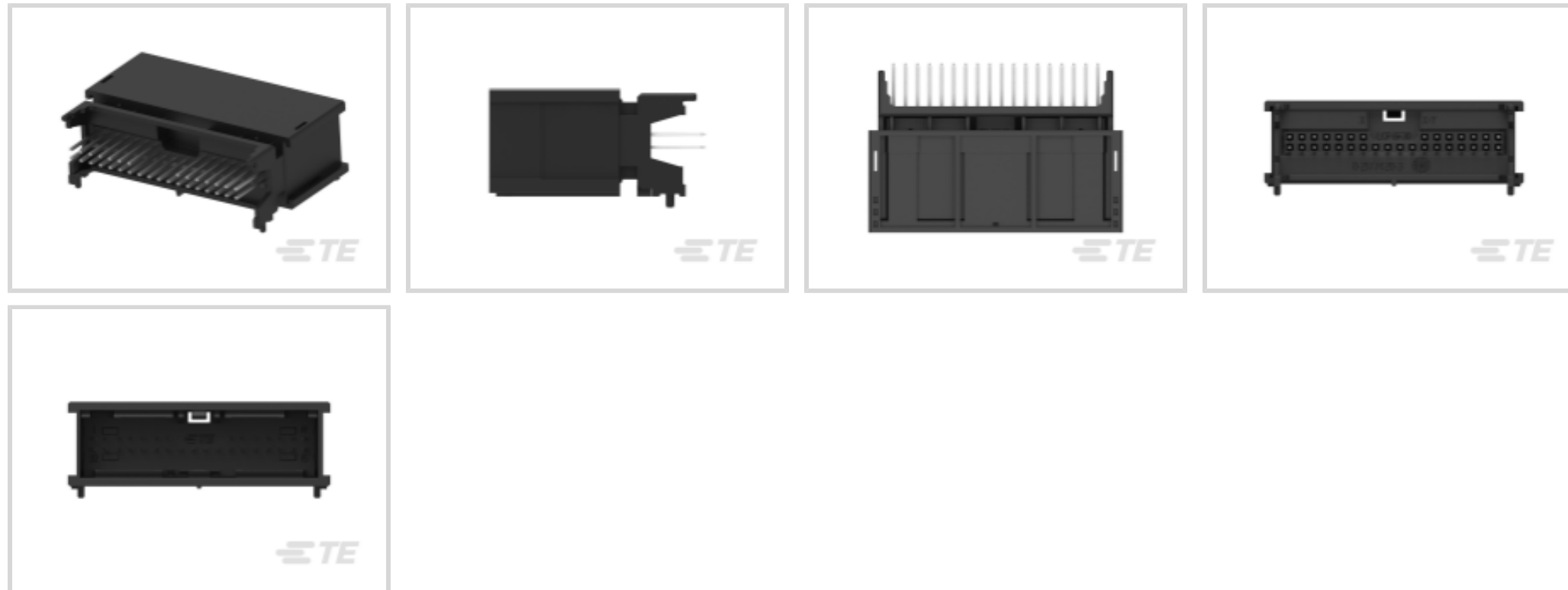
TE Internal #: 2177748-3

PCB Mount Header, Vertical, Wire-to-Board, 32 Position, 1.8 mm [.071 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, Signal, Nano MQS

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles > Miniature Automotive I/O Headers



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

Number of Positions: **32**

Centerline (Pitch): **1.8 mm [.071 in]**

Sealable: **No**

PCB Mount Orientation: **Vertical**

[All Miniature Automotive I/O Headers \(37\)](#)

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Header Type	Fully Shrouded
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Sections	1
Number of Signal Positions	32
Number of Positions	32
PCB Mount Orientation	Vertical
Number of Rows	2



Electrical Characteristics

Nominal Voltage Architecture	12 V
Operating Voltage	12 VDC

Body Features

Primary Product Color	Black
Connector & Keying Code	A

Contact Features

Contact Size	.5mm
Contact Type	Tab
Mating Tab Width	.5 mm[.02 in]
Mating Tab Thickness	.4 mm[.016 in]
Contact Mating Area Plating Material	Tin

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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Mechanical Attachment

Mounting Holes	Without
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	With
Panel Mount Feature	Without
PCB Mount Retention	Without
Mating Retention Type	Locking Interface

Housing Features

Centerline (Pitch)	1.8 mm[.071 in]
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Dimensions

Connector Length	38.05 mm[1.498 in]
Connector Width	25.3 mm[.996 in]
PCB Thickness (Recommended)	.8 mm[.031 in]
Profile Height from PCB	22.95 mm[.904 in]

Usage Conditions

Operating Temperature (Max)	65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 °C[149 °F]
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[158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F][230 °F][248 °F][257 °F]

Operating Temperature Range

-40 – 125 °C[-40 – 257 °F]

Operation/Application

Shielded

No

Circuit Application

Signal

Industry Standards

UL Flammability Rating

UL 94V-0

Packaging Features

Packaging Type

Tray

Other

Interface Number

114-20160

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: JUNE 2023 (235)
Candidate List Declared Against: JUNE 2023 (235)
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 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 # CAT-M8793-CH8172
MQS, CONNECTOR HOUSING



TE Part # 2303088-2
32POS,NANOMQS,REC HSG,UNSLD,COD A,FFC



TE Part # 2177008-7
TAB 0.5X0.4,NANOMQS

Also in the Series | Nano MQS



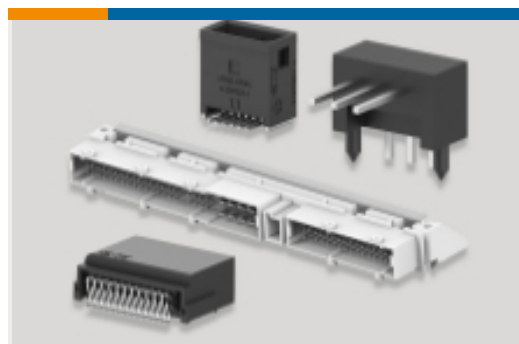
Automotive Housings(55)



Automotive Terminals(8)

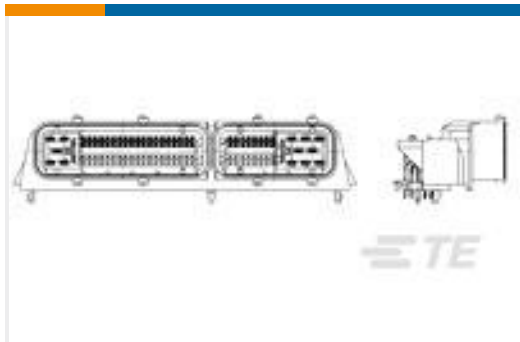


Insertion & Extraction Tools(6)



PCB Headers & Receptacles(19)

Customers Also Bought



TE Part #1241434-1
121pos hybrid MQS .63 header 90deg



TE Part #1-963539-1
Signal Header



TE Part #HDT-48-00
CRIMP TOOL, HAND



TE Part #3-928776-7
AMPMODU II ACTION PIN 21.2MM LENGTH



TE Part #4-928776-7
AMPMODU II ACTION PIN IN PLASTIC REEL

Documents

Product Drawings

32POS,NANO MQS,HEADER ASSY,CODA

English



CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_2177748-3_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2177748-3_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2177748-3_D.3d_stp.zip](#)

English

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Product Specifications

Application Specification

English

Application Specification

English