

2177419-3 ✓ ACTIVE

## Nano MQS

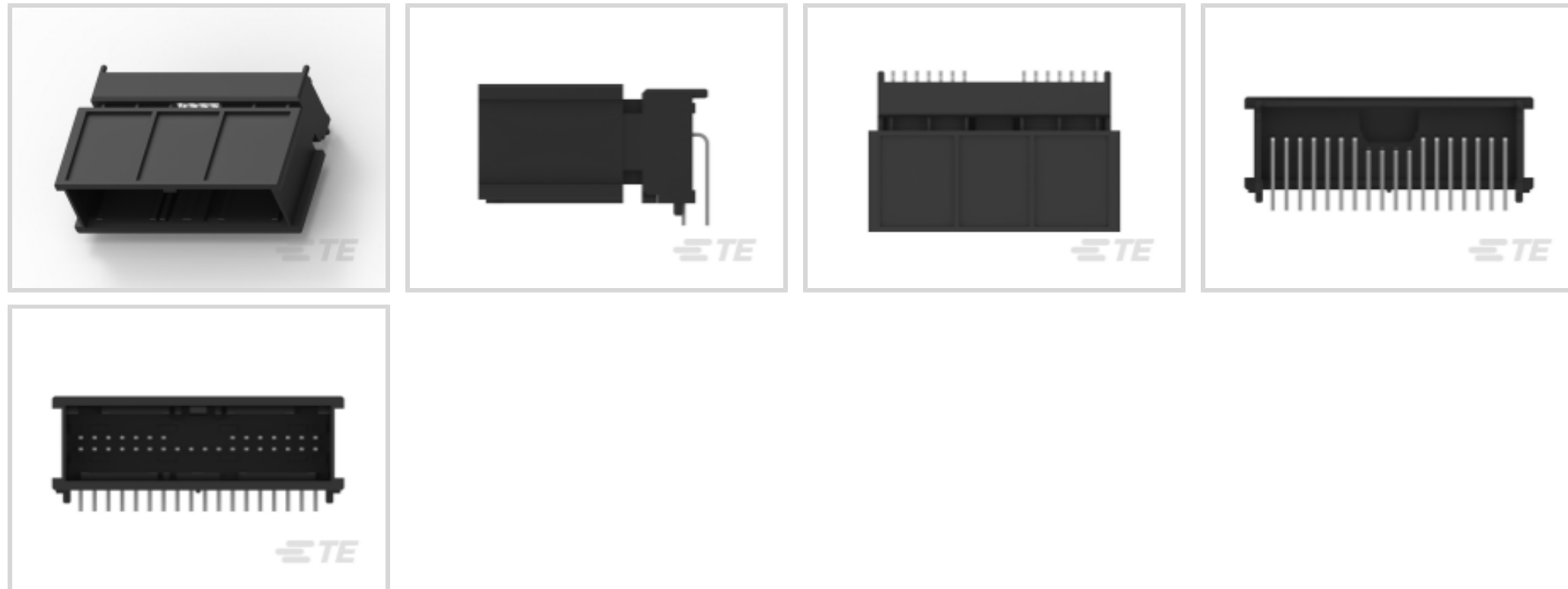
TE Internal #: 2177419-3

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

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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: **Horizontal**

[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	Horizontal
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	24.47 mm[.963 in]
PCB Thickness (Recommended)	.8 mm[.031 in]
Profile Height from PCB	12.6 mm[.496 in]

### Usage Conditions

Operating Temperature (Max)	65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C[149 °F][158 °F][167 °F][176 °F]
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	[185 °F][194 °F][212 °F][221 °F][230 °F][248 °F]
Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]

### Operation/Application

Shielded	No
Circuit Application	Signal

### Industry Standards

UL Flammability Rating	UL 94V-0
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### Packaging Features

Packaging Type	Tray
Packaging Quantity	46

### Other

Interface Number	114-20160
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## 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


## 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 #2141576-1  
MQS, CONNECTOR HOUSING



TE Part #3-2213767-5  
AV19 SPL 5A MOVE RING LED GREEN 24V



TE Part #2213763-7  
AV19 DPL 3A NO LED



TE Part #1-2176340-7  
CRGCO 0603 470R 5%



TE Part #1-2176326-3  
CRGP 0603 100R 1%



TE Part #2176326-5  
CRGP 0603 22R 1%



TE Part #1-2176328-3  
CRGP 1206 100R 1%



TE Part #1418850-1  
MCON 1.2 CB REC SWS SN

## Documents

[Product Drawings](#)



**32POS,TAB 0.5X0.4,HEADER ASSY,CODA**

English

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**CAD Files**

**3D PDF**

3D

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2177419-3\\_D.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2177419-3\\_D.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2177419-3\\_D.3d\\_stp.zip](#)

English

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**Product Specifications**

**Application Specification**

English

**Application Specification**

English