

2208165-1 ✓ ACTIVE

Nano MQS

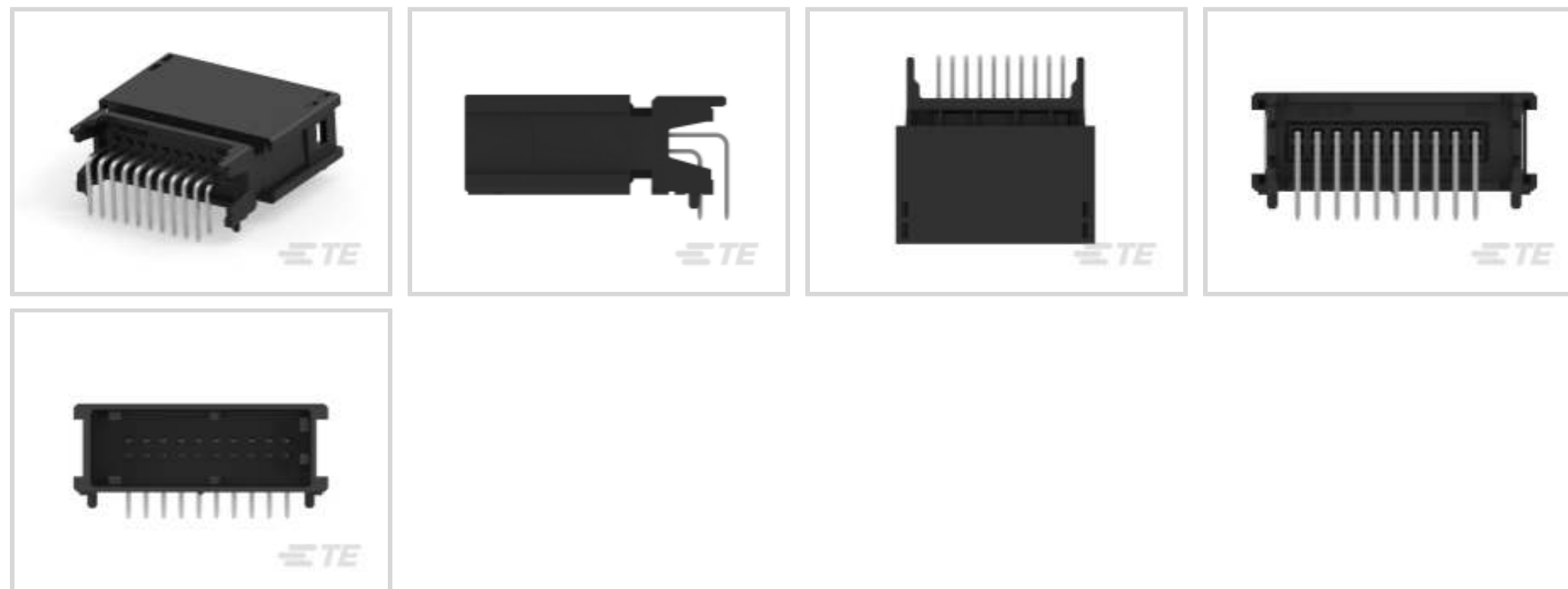
TE Internal #: 2208165-1

PCB Mount Header, Horizontal, Wire-to-Board, 20 Position, 1.8 mm
[.07 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: **20**

Centerline (Pitch): **1.8 mm [.07 in]**

Sealable: **No**

PCB Mount Orientation: **Horizontal**

[All Miniature Automotive I/O Headers \(48\)](#)

Features

Product Type Features

Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Header Type	Fully Shrouded
Connector System	Wire-to-Board
Sealable	No

Configuration Features

Number of Sections	1
Number of Signal Positions	20
Number of Positions	20
PCB Mount Orientation	Horizontal
Number of Rows	2



Body Features

Primary Product Color	Black
Connector & Keying Code	A

Contact Features

Contact Size	.5mm
Contact Type	Tab
Mating Tab Width	.5 mm[.019 in]
Mating Tab Thickness	.4 mm[.015 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[.07 in]
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Dimensions

Connector Length	26 mm[1.02 in]
Connector Width	23.15 mm[.911 in]
Profile Height from PCB	9 mm[.354 in]

Operation/Application

Shielded	No
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Type	Reel
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Packaging Quantity	195
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Other

Interface Number	114-94000-11
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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: JAN 2023 (233) 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	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

TE Part # 2141404-1
20POS,NANOMQS,REC HSG,CODE A

TE Part # 1-2177008-4
TAB 0.5X0.4,NANOMQS

TE Part # 1-2177008-5
TAB 0.5X0.4,NANOMQS

TE Part # 2208166-1
20POS,NANO MQS,HEADER HSG, CODA

Also in the Series | Nano MQS



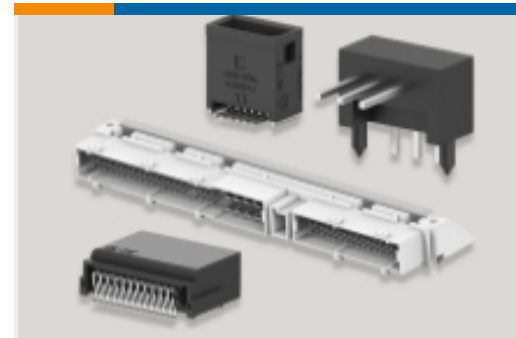
Automotive Housings(60)



Automotive Terminals(9)

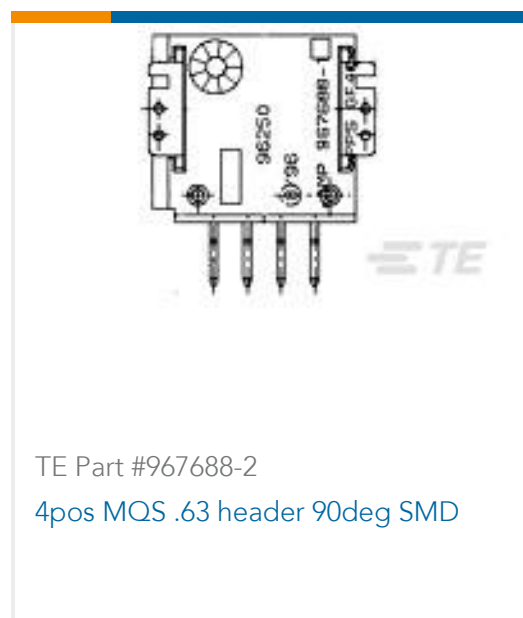
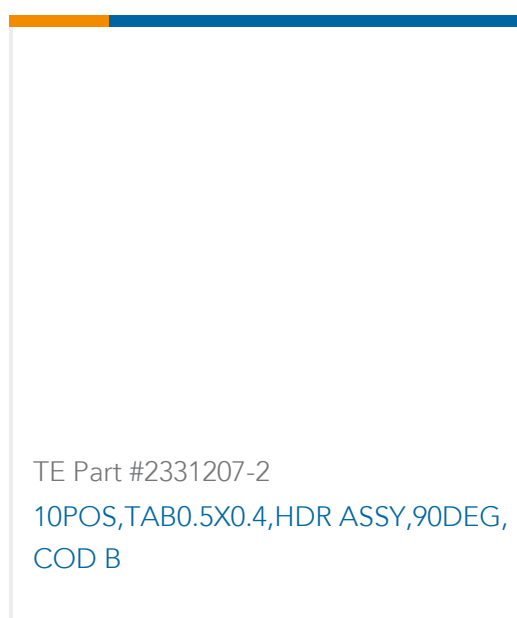


Insertion & Extraction Tools(6)



PCB Headers & Receptacles(28)

Customers Also Bought

TE Part #969599-1
Signal HeaderTE Part #967688-2
4pos MQS .63 header 90deg SMDTE Part #1-2300483-1
16POS,MIXED,HEADER ASSYTE Part #2302510-9
1-PORT MATENET FRAME,STP, COD
ZTE Part #1-2293127-1
42POS,MIXED,HEADER ASSY,REFLOWTE Part #2293127-2
42POS,MIXED,HEADER ASSY,REFLOWTE Part #2331207-2
10POS,TAB0.5X0.4,HDR ASSY,90DEG,
COD B

Documents

Product Drawings

[20POS,NANO MQS,HEADER ASSY,CODA](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2208165-1_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2208165-1_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2208165-1_C.3d_stp.zip](#)



English

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Product Specifications

Product Specification

English