

#### MQS

TE Internal #: 1-963539-1

PCB Mount Header, Horizontal, Wire-to-Board, 18 Position, 2.54 mm [.1 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder,

Signal, Black, MQS

View on TE.com >

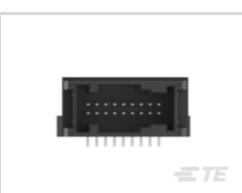


Connectors > PCB Connectors > PCB Headers & Receptacles > SIGNAL HEADER











Connector System: Wire-to-Board

Number of Positions: 18

Centerline (Pitch): 2.54 mm [.1 in]

Sealable: No

PCB Mount Orientation: Horizontal

All SIGNAL HEADER (413)

# **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
Connector & Contact Terminates To	Printed Circuit Board
Configuration Features	
Number of Sections	1
Number of Signal Positions	18
Number of Positions	18
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 Code	C-F
Contact Features	
Contact Size	.63mm
Contact Type	Tab
Mating Tab Width	.63 mm[.025 in]
Mating Tab Thickness	.63 mm[.025 in]
Contact Mating Area Plating Material	Tin
Termination Features	
Termination Method to Printed Circuit Board	Through Hole - Solder
Mechanical Attachment	
Mounting Holes	With
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	Without
Panel Mount Feature	With
PCB Mount Retention	With
PCB Mount Retention Type	Mounting Hole
Mating Retention Type	Locking Interface
Connector Mounting Type	Panel Mount
Housing Features	
Centerline (Pitch)	2.54 mm[.1 in]
Dimensions	
Connector Length	38.08 mm[1.499 in]
Connector Width	27.9 mm[1.098 in]
PCB Thickness (Recommended)	.8 – 1.6 mm[.031 – .063 in]
Profile Height from PCB	17 mm[.669 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, 130 °C [149 °F][158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F][230 °F][248 °F][257 °F][266 °F]
Operating Temperature Range	-40 - 130 °C[-40 - 266 °F]

### Operation/Application

Shielded	No
Circuit Application	Signal

### **Industry Standards**

UL Flammability Rating	UL 94HB	

### **Packaging Features**

Packaging Type	Tray
Packaging Quantity	384
Other	

114-18063-16

# **Product Compliance**

Interface Number

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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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	Wave solder capable to 240°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-onreach

# Compatible Parts



# Also in the Series | MQS



(133)



Automotive Connector Caps & Covers Automotive Connector EMC Shielding Automotive Connector Locks & (2)



Position Assurance(29)



Automotive Housings(492)



Automotive Seals & Cavity Plugs(26)



Automotive Terminals(96)



Insertion & Extraction Tools(42)



Other Automotive Connector Accessories(13)



# **Documents**



# **Product Drawings**

18pos MQS .63 header 90deg

German

**CAD Files** 

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_1-963539-1\_F\_c-1-963539-1-f.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_1-963539-1\_F\_c-1-963539-1-f.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_1-963539-1\_F\_c-1-963539-1-f.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

# **Product Specifications**

**Product Specification** 

German