molex

Part Number: 768290012

Product Description: Mega-Fit Vertical Header, Through Hole, 5.70mm Pitch, Dual Row, 12 Circuits, 1.52µm Tin (Sn) Plating, Glow-Wire Capable, Black

Series Number: 76829

Status: Active

Product Category: PCB Headers and

Receptacles



Documents & Resources

Drawings

768290012_sd.pdf PK-31301-976-000.pdf

3D Models and Design Files

768290012_stp.zip SYM-76829-0012-001.zip

Specifications

1722990000-AS-000.pdf 768232000-AS-000.pdf AS-76823-100-001.pdf 1720631000-PS-000.pdf PS-76823-100-001.pdf 1720631000-TS-000.pdf TS-76823-100-001.pdf TS-76829-001-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44; 33
China RoHS	•
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)7663-DC (21 Jan 2025)
EU RoHS	Compliant per EU 2015/863

Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

Multiple Part Industry Compliance Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

EU RoHS Certificate of Compliance

Part Details

General

Status	Active
Category	PCB Headers and Receptacles
Series	76829
Description	Mega-Fit Vertical Header, Through Hole, 5.70mm Pitch, Dual Row, 12 Circuits, 1.52µm Tin (Sn) Plating, Glow-Wire Capable, Black
Application	Power, Wire-to-Board
Component Type	PCB Header
Product Name	Mega-Fit
UPC	887191454238

Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	23.5A
Voltage - Maximum	600V AC (RMS)/DC

Physical

Breakaway	No
Circuits (Loaded)	12

Color - Resin Black Durability (mating cycles max) 25 First Mate / Last Break No Flammability 94V-0 Glow-Wire Capable Yes Keying to Mating Part Yes Lock to Mating Part Yes Mated Height 16.78mm Material - Metal High Conductivity Copper Material - Plating Mating Matte Tin Material - Resin Liquid Crystal Polymer Net Weight 6.718/g Number of Rows 2 Orientation Vertical Packaging Type Tray PC Tail Length 3.73mm PCB Locator Yes PCB Retention Yes PCB Thickness - Recommended 1.58mm, 2.36mm Pitch - Mating Interface 5.70mm Plating min - Mating 1.524µm Plating min - Termination Yes Polarized to Mating Part Yes Temperature Range - Operating -40° to +105°C Termination Interface Style Through Hole Unmated Height 14.80mm	Cincuita (manusimum)	12
Durability (mating cycles max) First Mate / Last Break Flammability Glow-Wire Capable Keying to Mating Part Lock to Mating Part Mated Height Material - Metal Material - Plating Mating Material - Plating Termination Material - Resin Liquid Crystal Polymer Net Weight Number of Rows Orientation PC Tail Length PCB Retention PCB Retention Pitch - Termination Interface Polarized to PCB Shrouded Termination Interface Style Termination Interface Termination Interface Termination Interface Termination Interface Termination Interface Through Hole Through Hole	Circuits (maximum)	12
First Mate / Last Break Flammability 94V-0 Glow-Wire Capable Keying to Mating Part Lock to Mating Part Mated Height Material - Metal Material - Plating Mating Material - Plating Termination Material - Resin Meterial - Resin Meterial - Resin Net Weight Number of Rows Orientation PCB Locator PCB Retention PCB Retention Pitch - Mating Interface Plating min - Mating Polarized to Mating Part Pes Shrouded Termination Interface Style Ters PCB Hockens Pes PCB Through Hole Pes PCB Through Hole Prough Hole Prough Hole Pass PCB Through Hole Pass PCB Through Hole	Color - Resin	Black
Flammability Glow-Wire Capable Yes Keying to Mating Part Lock to Mating Part Yes Mated Height Material - Metal High Conductivity Copper Material - Plating Mating Material - Plating Termination Material - Resin Liquid Crystal Polymer Net Weight Number of Rows 2 Orientation Vertical Packaging Type Tray PC Tail Length PCB Retention Yes PCB Retention Pitch - Mating Interface Plating min - Mating Plating min - Termination Plating min - Termination Polarized to PCB Shrouded Termination Interface Style Through Hole	Durability (mating cycles max)	25
Glow-Wire Capable Keying to Mating Part Lock to Mating Part Yes Mated Height Material - Metal Material - Plating Mating Material - Plating Termination Material - Resin Mumber of Rows Orientation Packaging Type PC Tail Length PCB Retention PCB Thickness - Recommended Pitch - Termination Plating min - Mating Polarized to PCB Shrouded Termination Interface Style Through Hole	First Mate / Last Break	No
Keying to Mating Part Lock to Mating Part Yes Mated Height 16.78mm Material - Metal High Conductivity Copper Material - Plating Mating Matte Tin Material - Resin Liquid Crystal Polymer Net Weight 6.718/g Number of Rows 2 Orientation Vertical Packaging Type Tray PC Tail Length 3.73mm PCB Locator Yes PCB Retention Yes PCB Thickness - Recommended Pitch - Mating Interface Plating min - Mating Plating min - Termination Plating min - Termination Polarized to PCB Shrouded Termination Interface Temperature Range - Operating Trow Matte Tin Matte Tin Liquid Crystal Polymer Adate Tin Matte Tin	Flammability	94V-0
Lock to Mating Part Mated Height Material - Metal Material - Plating Mating Material - Plating Termination Material - Resin Material - Resin Material - Resin Net Weight Number of Rows Orientation Packaging Type PC Tail Length PCB Locator PCB Retention PCB Thickness - Recommended Pitch - Mating Interface Plating min - Mating Plating min - Termination Polarized to PCB Shrouded Termination Interface Style Termination Interface Style Termination Interface Style Thigh Conductivity Copper Matter Tin High Conductivity Copper Matter Tin Matte Tin Matter T	Glow-Wire Capable	Yes
Material - Metal High Conductivity Copper Material - Plating Mating Matte Tin Material - Plating Termination Matte Tin Material - Resin Liquid Crystal Polymer Net Weight 6.718/g Number of Rows 2 Orientation Vertical Packaging Type Tray PC Tail Length 3.73mm PCB Locator Yes PCB Retention Yes PCB Thickness - Recommended 1.58mm, 2.36mm Pitch - Mating Interface 5.70mm Plating min - Mating 1.524µm Polarized to Mating Part Yes Shrouded Yes Temperature Range - Operating Through Hole	Keying to Mating Part	Yes
Material - Metal High Conductivity Copper Material - Plating Mating Matte Tin Material - Plating Termination Matte Tin Material - Resin Liquid Crystal Polymer Net Weight 6.718/g Number of Rows 2 Orientation Vertical Packaging Type Tray PC Tail Length 3.73mm PCB Locator Yes PCB Retention Yes PCB Thickness - Recommended 1.58mm, 2.36mm Pitch - Mating Interface 5.70mm Plating min - Mating 1.524µm Polarized to Mating Part Yes Polarized to PCB Yes Shrouded Yes Temperature Range - Operating -40° to +105°C Termination Interface Style Through Hole	Lock to Mating Part	Yes
Material - Plating Mating Material - Plating Termination Material - Resin Material - Resin Net Weight Number of Rows Orientation Packaging Type PC Tail Length PCB Locator PCB Retention Pitch - Mating Interface Plating min - Mating Plating min - Termination Polarized to PCB Shrouded Termination Interface Style Tiquid Crystal Polymer Matter Tin Matte	Mated Height	16.78mm
Material - Plating Termination Material - Resin Liquid Crystal Polymer Net Weight Number of Rows Orientation Packaging Type Tray PC Tail Length PCB Locator PCB Retention Pitch - Mating Interface Pitch - Termination Interface Plating min - Termination Polarized to PCB Shrouded Temperature Range - Operating Liquid Crystal Polymer And Port S.718/g Nertical Temperature Range - Operating Polarized to PCB Termination Interface Style	Material - Metal	High Conductivity Copper
Material - Resin Net Weight Number of Rows Orientation Packaging Type PC Tail Length PCB Locator PCB Retention Pitch - Mating Interface Plating min - Termination Polarized to PCB Shrouded Temperature Range - Operating Number of Rows 2 Diquid Crystal Polymer 6.718/g 1.524/g Liquid Crystal Polymer 6.718/g 1.524/g Tray 2 Tray Pray	Material - Plating Mating	Matte Tin
Net Weight Number of Rows Orientation Packaging Type Tray PC Tail Length PCB Locator PCB Retention Pitch - Mating Interface Plating min - Termination Plating min - Termination Polarized to PCB Shrouded Termination Interface Style Pes 1.58mm, 2.36mm 1.58mm, 2.36mm 1.524µm 1.524µm Polarized to Mating Part Yes Polarized to PCB Temperature Range - Operating Termination Interface Style Termination Interface Style Tray Across Strong Contents Parity Strong Contents Perity Strong Contents Pes Tray Tray Across Strong Contents Pes Tray Tra	Material - Plating Termination	Matte Tin
Number of Rows Orientation Packaging Type Tray PC Tail Length PCB Locator PCB Retention PCB Thickness - Recommended Pitch - Mating Interface Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating Per Tray Tray Vertical Tray 1.724 Tray 1.58mm, 2.36mm 1.58mm, 2.36mm 5.70mm 1.524µm 1.524µm Yes Yes Polarized to PCB Yes Temperature Range - Operating -40° to +105°C Through Hole	Material - Resin	Liquid Crystal Polymer
Orientation Packaging Type Tray PC Tail Length 3.73mm PCB Locator Yes PCB Retention Pitch - Mating Interface Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating Tray 3.73mm Yes 1.58mm, 2.36mm 1.58mm, 2.36mm 5.70mm 1.524µm 1.524µm Yes Yes Polarized to Mating Part Yes Temperature Range - Operating -40° to +105°C Through Hole	Net Weight	6.718/g
Packaging Type PC Tail Length 3.73mm PCB Locator PCB Retention PCB Thickness - Recommended Pitch - Mating Interface Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating PCB Tray Yes Temperature Range - S.73mm Tray 3.73mm Yes 1.58mm, 2.36mm 5.70mm 5.70mm 1.524µm 1.524µm 1.524µm Yes Yes Temperature Range - Operating Temperature Range - Operating Through Hole	Number of Rows	2
PC Tail Length PCB Locator PCB Retention PCB Retention PCB Thickness - Recommended Pitch - Mating Interface Pitch - Termination Interface Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating PCB Temperature Range - S.73mm PCB Temperature Range - S.70mm PCB Temperature Range - Operating PCB Temperature Range - Operating PCB Temperature Range - Style PCB Temperature Range - Operating PCB Temperature Range - Style PCB	Orientation	Vertical
PCB Locator PCB Retention Yes PCB Thickness - Recommended Pitch - Mating Interface Pitch - Termination Interface Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating PCB Retention Yes Yes 1.58mm, 2.36mm 1.520mm 1.524µm 1.524µm Yes Yes Yes Temperature Range - Operating -40° to +105°C Through Hole	Packaging Type	Tray
PCB Retention PCB Thickness - Recommended Pitch - Mating Interface Pitch - Termination Interface Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating PCB Thickness - Recommended 1.58mm, 2.36mm 5.70mm 1.524µm 1.524µm Yes Yes Yes Temperature Range - Operating -40° to +105°C Through Hole	PC Tail Length	3.73mm
PCB Thickness - Recommended Pitch - Mating Interface Pitch - Termination Interface Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating Termination Interface Style 1.58mm, 2.36mm 5.70mm 1.524µm 1.524µm Yes Yes Yes Temperature Range - Operating -40° to +105°C Through Hole	PCB Locator	Yes
Pitch - Mating Interface 5.70mm Pitch - Termination Interface 5.70mm Plating min - Mating 1.524µm Plating min - Termination 1.524µm Polarized to Mating Part Yes Polarized to PCB Yes Shrouded Yes Temperature Range - Operating -40° to +105°C Termination Interface Style Through Hole	PCB Retention	Yes
Pitch - Termination Interface Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating Termination Interface Style 5.70mm 1.524µm Yes Yes Yes Yes Temperature Range - Operating -40° to +105°C	PCB Thickness - Recommended	1.58mm, 2.36mm
Plating min - Mating Plating min - Termination Polarized to Mating Part Polarized to PCB Polarized to PCB Shrouded Temperature Range - Operating Termination Interface Style 1.524 Yes Yes Yes Yes Temperature Range - Operating -40° to +105°C Through Hole	Pitch - Mating Interface	5.70mm
Plating min - Termination Polarized to Mating Part Polarized to PCB Shrouded Temperature Range - Operating Termination Interface Style 1.524µm Yes Yes Yes Termination Interface Style Through Hole	Pitch - Termination Interface	5.70mm
Polarized to Mating Part Polarized to PCB Shrouded Yes Temperature Range - Operating Termination Interface Style Yes Through Hole	Plating min - Mating	1.524µm
Polarized to PCB Shrouded Yes Temperature Range - Operating Termination Interface Style Yes -40° to +105°C Through Hole	Plating min - Termination	1.524µm
Shrouded Yes Temperature Range - Operating -40° to +105°C Termination Interface Style Through Hole	Polarized to Mating Part	Yes
Temperature Range - Operating -40° to +105°C Termination Interface Style Through Hole	Polarized to PCB	Yes
Termination Interface Style Through Hole	Shrouded	Yes
	Temperature Range - Operating	-40° to +105°C
Unmated Height 14.80mm	Termination Interface Style	Through Hole
	Unmated Height	14.80mm

Solder Process Data

Max-Duration	30
Lead-Free Process Capability	SMC&WAVE

Max-Cycle	1
Max-Temp	260

Mates With / Use With

Mates with Part(s)

Description	Part Number
Mega-Fit Dual Row Receptacle Housings	<u>170001</u>
Mega-Fit Dual Row Receptacle Housings	<u>171692</u>
Mega-Fit-to-Mega-Fit Off-the-Shelf (OTS) Cable Assemblies	<u>45136</u>

This document was generated on Mar 13, 2025