




molex 761553603 Impact 100 Ohm 4 Pair Vertical Backplane Header Owner's Manual

[Home](#) » [molex](#) » molex 761553603 Impact 100 Ohm 4 Pair Vertical Backplane Header Owner's Manual 

Contents

- [1 molex 761553603 Impact 100 Ohm 4 Pair Vertical Backplane Header](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Specifications](#)
- [5 Product Environment Compliance](#)
- [6 EU RoHS Certificate of Compliance](#)
- [7 Part Details](#)
- [8 Mates With / Use With](#)
- [9 Documents / Resources](#)
- [10 Related Posts](#)

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molex 761553603 Impact 100 Ohm 4 Pair Vertical Backplane Header



Product Information

- **Part Number:** 761553603
- **Product Description:** Impact 100 Ohm 4 Pair Vertical Backplane Header, Left Guided, Open Endwall, 16 Columns, 192 Circuits, Pin Length 4.50mm, Plated Through Hole Dimension 0.46mm
- **Series Number:** 76155
- **Status:** Active
- **Product Category:** Backplane Connectors

Product Usage Instructions

1. Ensure that the backplane connector is compatible with your application.
2. Connect the Impact 100 Ohm 4 Pair Vertical Backplane Header to the appropriate mating part.
3. Make sure to align the left-guided orientation of the backplane header.
4. Insert the header into the mating part, ensuring a secure connection.
5. Verify that the pin length is appropriate for your setup (4.50mm).
6. Ensure that the plated through-hole dimension is suitable (0.46mm).
7. Check that the backplane header has the required number of columns (16) and circuits (192) for your application.
8. Take note of the electrical specifications, such as the maximum current per contact (0.75A), data rate (25.0 Gbps), and voltage (30V AC/DC).
9. Consider the physical characteristics, including the color of the resin (black), durability (mating cycles max), flammability (94V-0), and material composition.
10. Ensure proper mating with the part it connects to, using the provided guide to mating part keying.
11. Take note of the recommended PCB thickness, pitch for the mating interface, termination interface, and plating specifications.
12. Consider the temperature range for operating the backplane header.
13. Verify the appropriate solder process data and lead-free process capability.
14. Ensure compatibility with the corresponding daughtercard receptacles (Part Number 76160).

Please refer to the provided user manual for more detailed instructions and safety guidelines.

- Part Number: 761553603
- Product Description: Impact 100 Ohm 4 Pair Vertical Backplane Header, Left Guided, Open Endwall, 16 Columns, 192 Circuits, Pin Length 4.50mm, Plated Through Hole Dimension 0.46mm, Lead-Free
- Series Number: 76155
- Status: Active
- Product Category: Backplane Connectors

Documents & Resources

Drawings

- Drawing 761553603_sd.pdf

- Packaging Design Drawing PK-70873-757-001.pdf

3D Models and Design Files


- 3D Model 761553603_stp.zip
- Symbol Footprint Data SYM-76155-3603-001.zip

Specifications

Product Specification PS-45499-002-001.pdf Test Summary TS-76160-0001-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44; 34; 33
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)3788-DC (14 Jun 2023)
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	Backplane Connectors
Series	76155
Description	Impact 100 Ohm 4 Pair Vertical Backplane Header, Left Guided, Open Endwall, 16 Columns, 192 Circuits, Pin Length 4.50mm, Plated Through Hole Dimension 0.46mm, Lead-Free
Application	Conventional
Component Type	PCB Header
Product Family	Impact Backplane Connector and Cable Assembly System
Product Name	Impact
UPC	883906418731

Agency

UL	E29179
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Electrical

Current – Maximum per Contact	0.75A
Data Rate	25.0 Gbps
Impedance	100Ω
Shield Type	N/A
Shielded	No
Voltage – Maximum	30V AC (RMS)/DC

Physical

Circuits (Loaded)	192
Circuits (maximum)	192
Color – Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	Yes
Keying to Mating Part	None
Material – Metal	High-Performance Alloy (HPA)
Material – Plating Mating	Gold
Material – Plating Termination	Tin
Material – Resin	High Temperature Thermoplastic
Net Weight	7.259/g
Number of Columns	16
Number of Pairs	4
Number of Rows	12
Orientation	Vertical
Packaging Type	Tray
PC Tail Length	1.40mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness – Recommended	1.00mm
Pitch – Mating Interface	1.90mm
Pitch – Termination Interface	1.90mm
Plating min – Mating	0.762µm
Polarized to PCB	Yes
Stackable	No
Temperature Range – Operating	-55° to +85°C
Termination Interface Style	Through Hole – Compliant Pin

Solder Process Data

Lead-Free Process Capability	N/A
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Mates With / Use With


Mates with Part(s)

Description	Part Number
Impact 100 Ohm 4 Pair Right-Angle Daughtercard Receptacles	<u>76160</u>

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Documents / Resources



Part Number: 761553603
 Mfr Part Number: 761553603
 Mfr Part Name: 100 Ohm 4 Pair Vertical Backplane Header
 Mfr Part Description: 100 Ohm 4 Pair Vertical Backplane Header
 Mfr Part Category: Headers
 Mfr Part Subcategory: Headers
 Mfr Part Manufacturer: Molex
 Mfr Part Country of Origin: United States
 Mfr Part Date: 10/2010
 Mfr Part Status: Active
 Mfr Part Notes: See datasheet for details.
 Mfr Part Image: 

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