

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0365380013

Status:

Active

Overview:

mlx

Description:

6.35mm (.250") Pitch MLX™ Power Connector Header, Vertical, with Compliant Polarizing Peg, 6 Circuits, Polyester 94V-0, White, Lead-free

Documents:

3D Model

Drawing (PDF)

Product Specification PSX-42002-0001 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Overview

Product Name

PCB Headers

36538

Wire-to-Board

mlx

MLX™

Physical

Breakaway

Circuits (Loaded)

Circuits (maximum)

Circuits Detail

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Polarized to Mating Part

Polarized to PCB

Shrouded

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

No

6

6

With Compliant Polarizing Peg

Natural

50

No

No

No

No

None

Yes

Phosphor Bronze

Tin

Polyester

2

Vertical

0.170 In

4.30 mm

Yes

Yes

0.062 In

1.57 mm

Bag

0.250 In

6.35 mm

0.250 In

6.35 mm

20

0.51

Yes

Yes

Fully

No

No

-55°C to +105°C

Through Hole

Electrical

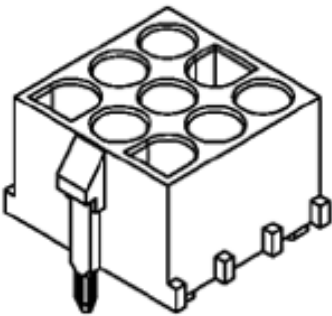


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

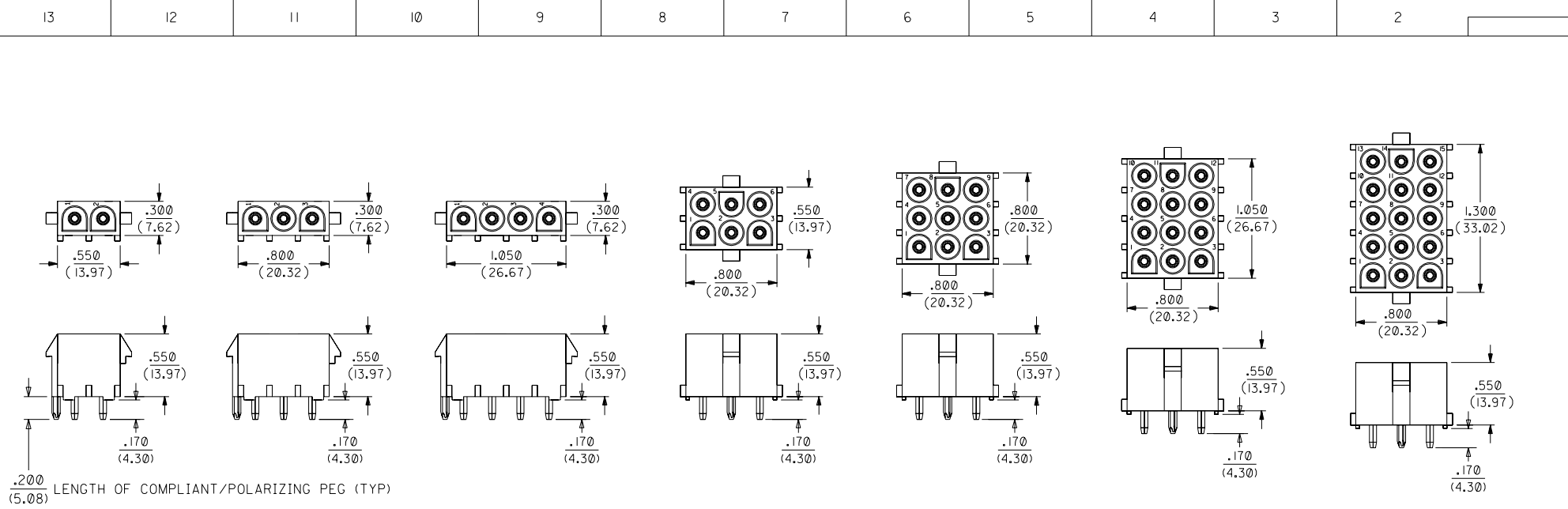
Search Parts in this Series

36538Series

|                                                |                        |
|------------------------------------------------|------------------------|
| Current - Maximum per Contact                  | 9A                     |
| Voltage - Maximum                              | 600V                   |
| <b>Solder Process Data</b>                     |                        |
| Duration at Max. Process Temperature (seconds) | 10                     |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Process Temperature max. C                     | 260                    |
| <b>Material Info</b>                           |                        |
| <b>Reference - Drawing Numbers</b>             |                        |
| Product Specification                          | PSX-42002-0001         |
| Sales Drawing                                  | SD-36538-001           |

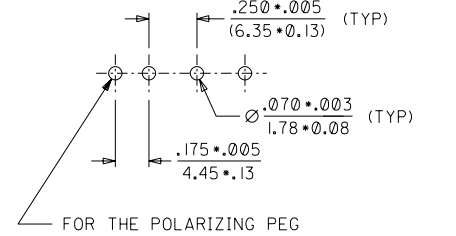
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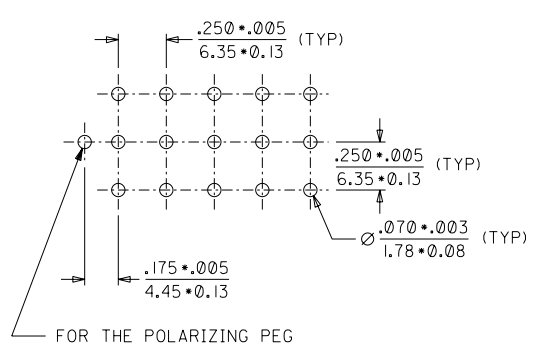


P.C. BOARD  
MOUNTING DIMENSIONS

2, 3 & 4 POSITION HEADER ASSEMBLIES



6, 9, 12 & 15 POSITION HEADER ASSEMBLY



NOTES:

- 1) MATERIAL CODES:  
HOUSING :  
\*A= UNREINFORCED POLYESTER, 94V-0.  
COLOR: WHITE  
\*B= UNREINFORCED POLYESTER, 94V-0.  
COLOR: BRICK RED  
\*C= NYLON (PA66), UL94V-2  
COLOR: WHITE, TRANSLUCENT  
TERMINAL : PHOSPHOR BRONZE
- 2) FINISH:  
TIN-LEAD 20 MICROINCH (0.51 MICRONS) MINIMUM
- 3) TERMINAL LENGTH IS SUITABLE FOR .062/(1.57) THICK P.C BOARD
- 4) DIMENSIONS ARE FOR REFERENCE ONLY UNLESS INDICATED OTHERWISE.
- 5) HEADER ASSEMBLY HOUSINGS MATE WITH :  
- PLUG HOUSINGS, .084/(2.13) DIA. SERIES: (42021-\*\*)
- 6) CONTACTS ARE ON .250/(6.35) GRID CENTERLINE SPACING.

|                    |  |  |  |                     |  |  |  |                   |  |  |  |                                                         |  |  |  |                 |  |       |  |                                                                                                                                   |  |  |  |                                                                                            |  |                                                                                      |  |                           |  |                                                                                                                                               |  |  |  |     |  |     |  |
|--------------------|--|--|--|---------------------|--|--|--|-------------------|--|--|--|---------------------------------------------------------|--|--|--|-----------------|--|-------|--|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|---------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----|--|-----|--|
| EC NO. I 2003-0027 |  |  |  | DRAWING: S 20/01/03 |  |  |  | CHK: G.L 20/01/03 |  |  |  | APPR: G.L 20/01/03                                      |  |  |  | QUALITY SYMBOLS |  |       |  | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)                                                                                         |  |  |  | SCALE<br>1.5:1                                                                             |  | DESIGN UNITS<br><input type="checkbox"/> mm <input checked="" type="checkbox"/> INCH |  | THIRD ANGLE<br>PROJECTION |  | DIMENSIONS:<br><input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm <input type="checkbox"/> ONLY |  |  |  | SHT |  | REV |  |
| A1                 |  |  |  | DESCRIPTION<br>REV  |  |  |  | MAJOR<br>CRITICAL |  |  |  | 4 PLACES                                                |  |  |  | ±0.             |  | ±.    |  | DRAWN BY & DATE<br>S.S 01/09/28                                                                                                   |  |  |  | TITLE:<br>HEADER HOUSING ASSEMBLIES<br>.084/(2.13) SERIES<br>WITH COMPLIANT/POLARISING PEG |  |                                                                                      |  |                           |  |                                                                                                                                               |  |  |  |     |  |     |  |
|                    |  |  |  |                     |  |  |  |                   |  |  |  | 3 PLACES                                                |  |  |  | ±0.             |  | ±.010 |  | CHECKED BY & DATE<br>G.L 01/09/28                                                                                                 |  |  |  |                                                                                            |  |                                                                                      |  |                           |  |                                                                                                                                               |  |  |  |     |  |     |  |
|                    |  |  |  |                     |  |  |  |                   |  |  |  | 2 PLACES                                                |  |  |  | ±0.25           |  | ±.014 |  | APPROVED BY & DATE<br>G.L 01/09/28                                                                                                |  |  |  |                                                                                            |  |                                                                                      |  |                           |  |                                                                                                                                               |  |  |  |     |  |     |  |
|                    |  |  |  |                     |  |  |  |                   |  |  |  | 1 PLACE                                                 |  |  |  | ±0.36           |  | ±.    |  | CAD FILENAME<br>SD-36538-001.S01                                                                                                  |  |  |  | MATERIAL NO.<br>SEE SHEET2                                                                 |  | DRAWING NO.<br>SD-36538-001                                                          |  | SHEET NO.<br>1 OF 2       |  |                                                                                                                                               |  |  |  |     |  |     |  |
|                    |  |  |  |                     |  |  |  |                   |  |  |  | DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS |  |  |  |                 |  |       |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |  |  |  |                                                                                            |  |                                                                                      |  | SIZE<br>C                 |  |                                                                                                                                               |  |  |  |     |  |     |  |

|                                                                                               |            |              |                                |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|-----------------------------------------------------------------------------------------------|------------|--------------|--------------------------------|-----------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----|-----|---|
|                                                                                               | I3         | I2           | I1                             | I0                                                              | 9  | 8                                                                                                                                                                                                  | 7 | 6                                                 | 5                                                                                                          | 4                                                                                            | 3                                                                                                                                                          | 2                               |     |     |   |
| J                                                                                             | ITEM NO.   | CIRCUIT SIZE | MATERIAL COLOR<br>(SEE NOTE 1) |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | J   |   |
|                                                                                               | 36538-0001 | 2            | A                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0002 |              | B                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0003 |              | C                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0004 | 3            | A                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0005 |              | B                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0006 |              | C                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
| I                                                                                             | 36538-0007 | 9            | A                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | I   |   |
|                                                                                               | 36538-0008 |              | B                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0009 |              | C                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0010 |              | A                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0011 | 4            | B                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0012 |              | C                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0013 |              | A                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
| H                                                                                             | 36538-0014 | 6            | B                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | H   |   |
|                                                                                               | 36538-0015 |              | C                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0016 |              | A                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0017 | 15           | B                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0018 |              | C                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               | 36538-0019 |              | A                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
| G                                                                                             | 36538-0020 | 12           | B                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | G   |   |
|                                                                                               | 36538-0021 |              | C                              |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
| F                                                                                             |            |              |                                |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | F   |   |
| E                                                                                             |            |              |                                |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | E   |   |
| D                                                                                             |            |              |                                |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | D   |   |
| C                                                                                             |            |              |                                |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | C   |   |
| B                                                                                             |            |              |                                |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | B   |   |
| A                                                                                             |            |              |                                |                                                                 |    |                                                                                                                                                                                                    |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     | A   |   |
| <div>EC NO.I 2003-0027<br/>DRWNS.S 20/01/03<br/>CHK: G.L 20/01/03<br/>APPR:G.L 20/01/03</div> |            |              |                                | <div>QUALITY SYMBOLS<br/>MAJOR =<br/>CRITICAL C =</div>         |    | <div>GENERAL TOLERANCES:<br/>(UNLESS SPECIFIED)<div><div>mmINCH</div><div>4 PLACES ±0.±.<div>3 PLACES ±0.±. 0 10<div>2 PLACES ±0.25±. 0 14<div>1 PLACE ±0.36±.</div></div></div></div></div></div> |   | <div>SCALE</div>                                  | <div>DESIGN UNITS<br/><div><input type="checkbox"/> mm<input checked="" type="checkbox"/> INCH</div></div> | <div>THIRD ANGLE PROJECTION</div>                                                            | <div>DIMENSIONS:<div><div><input type="checkbox"/> mm<input checked="" type="checkbox"/> INCH</div><div><input type="checkbox"/> mm ONLY</div></div></div> |                                 | SHT | REV |   |
|                                                                                               |            |              |                                |                                                                 |    | <div>DRAWN BY &amp; DATE<br/>S.S 01/09/28</div>                                                                                                                                                    |   | <div>CHECKED BY &amp; DATE<br/>G.L 01/09/28</div> |                                                                                                            | <div>TITLE: HEADER HOUSING ASSEMBLIES .084/(2,I3) SERIES WITH COMPLIANT/POLARIZING PEG</div> |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               |            |              |                                |                                                                 |    | <div>APPROVED BY &amp; DATE<br/>G.L 01/09/28</div>                                                                                                                                                 |   | <div>molex MOLEX INCORPORATED</div>               |                                                                                                            |                                                                                              |                                                                                                                                                            |                                 |     |     |   |
|                                                                                               |            |              |                                |                                                                 |    | <div>CAD FILENAME<br/>SD-36538-001.S02</div>                                                                                                                                                       |   | <div>MATERIAL NO.<br/>SEE CHART</div>             |                                                                                                            | <div>DRAWING NO.<br/>SD-36538-001</div>                                                      |                                                                                                                                                            | <div>SHEET NO.<br/>2 OF 2</div> |     |     |   |
|                                                                                               |            |              |                                | <div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div> |    | <div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.</div>                                                          |   |                                                   |                                                                                                            |                                                                                              |                                                                                                                                                            | <div>SIZE<br/>C</div>           |     |     |   |
| LBORD.DGN REV A<br>96/06/12 LEVEL 5                                                           |            |              |                                | I2                                                              | I1 | I0                                                                                                                                                                                                 | 9 | 8                                                 | 7                                                                                                          | 6                                                                                            | 5                                                                                                                                                          | 4                               | 3   | 2   | I |