

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0010845020

Status:

Active

Overview:

MLX Power Connectors

Description:

6.35mm Pitch MLX Power Connector Header, Vertical, 2 Circuits, Polyester 94V-0, Tin (Sn) Plating, White

- Documents:
- Drawing (PDF)

3D Model (PDF)

3D Model

Product Specification PSX-42002-0001-001 (PDF)

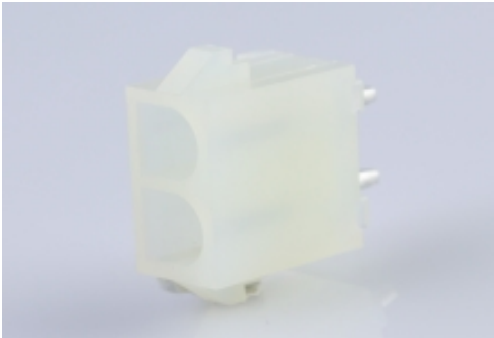
Packaging Specification PK-43255-001-001 (PDF)

Packaging Specification PK-43255-003-001 (PDF)

Datasheet (PDF)

RoHS Certificate of Compliance (PDF)

|                                |                      |
|--------------------------------|----------------------|
| Agency Certification           |                      |
| CSA                            | LR19980              |
| UL                             | E29179               |
| General                        |                      |
| Product Family                 | PCB Headers          |
| Series                         | 42002                |
| Application                    | Power, Wire-to-Board |
| Comments                       | Solder Type          |
| Overview                       | MLX Power Connectors |
| Product Name                   | MLX                  |
| UPC                            | 800754319607         |
| Physical                       |                      |
| Breakaway                      | No                   |
| Circuits (Loaded)              | 2                    |
| Circuits (maximum)             | 2                    |
| Color - Resin                  | Natural              |
| Durability (mating cycles max) | 50                   |
| First Mate / Last Break        | No                   |
| Flammability                   | 94V-0                |
| Glow-Wire Capable              | No                   |
| Guide to Mating Part           | Yes                  |
| Keying to Mating Part          | Yes                  |
| Lock to Mating Part            | Yes                  |
| Material - Metal               | Phosphor Bronze      |
| Material - Plating Mating      | Tin                  |
| Material - Resin               | Polyester            |
| Net Weight                     | 1.480/g              |
| Number of Rows                 | 1                    |
| Orientation                    | Vertical             |
| PC Tail Length                 | 4.27mm               |
| PCB Retention                  | Yes                  |
| PCB Thickness - Recommended    | 1.57mm               |
| Packaging Type                 | Bag                  |
| Pitch - Mating Interface       | 6.35mm               |
| Pitch - Termination Interface  | 6.35mm               |
| Polarized to PCB               | Yes                  |
| Shrouded                       | Fully                |
| Surface Mount Compatible (SMC) | No                   |
| Temperature Range - Operating  | -55° to +105°C       |
| Termination Interface: Style   | Through Hole         |
| Electrical                     |                      |
| Current - Maximum per Contact  | 13.5A, 20.0A         |



Series image - Reference only

|                                                               |               |
|---------------------------------------------------------------|---------------|
| EU ELV                                                        |               |
| Not Relevant                                                  |               |
| EU RoHS                                                       | China RoHS    |
| Compliant                                                     |               |
| REACH SVHC                                                    |               |
| Not Contained Per - D(2022)4187-DC (10 June 2022)             |               |
| Halogen-Free                                                  |               |
| Status                                                        |               |
| Not Low-Halogen                                               |               |
| For more information, please visit <a href="#">Contact US</a> |               |
| China ROHS                                                    | Green Image   |
| ELV                                                           | Not Relevant  |
| RoHS Phthalates                                               | Not Contained |

Search Parts in this Series

42002 Series

Mates With

42021 Plug

**Solder Process Data**

|                                                |      |
|------------------------------------------------|------|
| Duration at Max. Process Temperature (seconds) | 010  |
| Lead-freeProcess Capability                    | WAVE |
| Process Temperature max. C                     | 260  |

**Material Info**

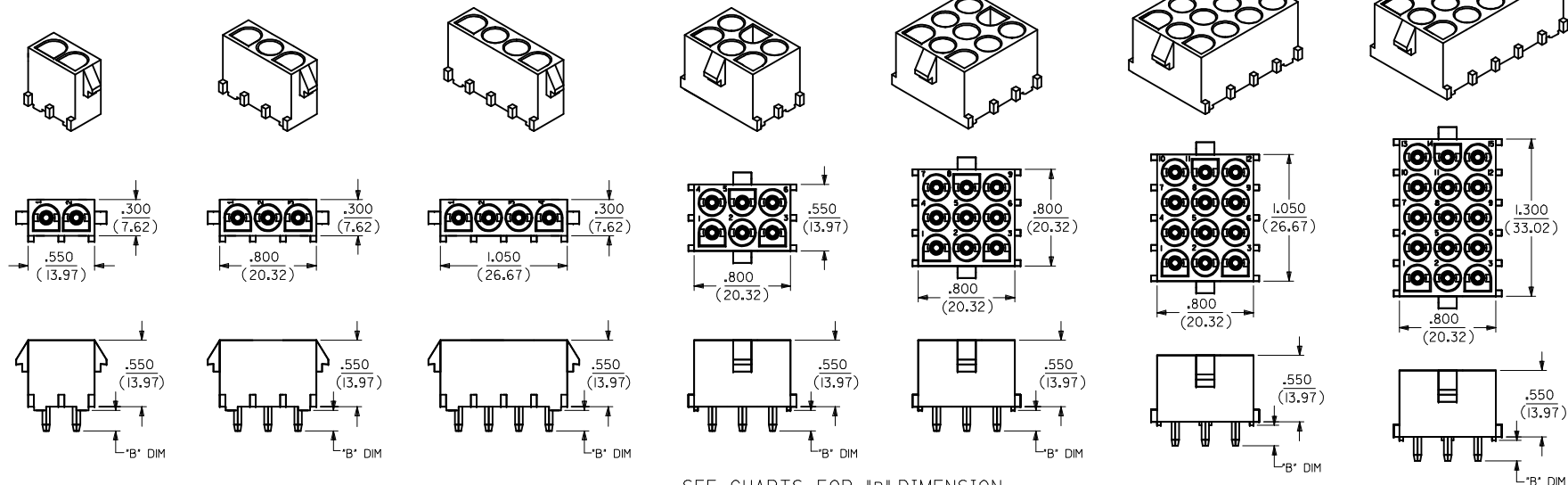
|                    |              |
|--------------------|--------------|
| Engineering Number | 42002-02C1A1 |
|--------------------|--------------|

**Reference - Drawing Numbers**

|                         |                                    |
|-------------------------|------------------------------------|
| Packaging Specification | PK-43255-001-001, PK-43255-003-001 |
| Product Specification   | PSX-42002-0001-001                 |
| Sales Drawing           | SDA-42002-XXXXX-001                |

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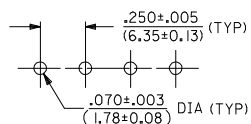
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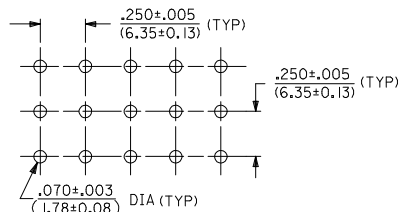
SEE CHARTS FOR "B" DIMENSION

### P.C. BOARD MOUNTING DIMENSIONS

#### 2, 3, & 4 POSITION HEADER ASSEMBLIES



#### 6, 9, 12 & 15 POSITION HEADER ASSEMBLIES



#### NOTES:

- MATERIAL CODES:
  - \*A\* = NYLON (PA66), UL94V-2, COLOUR: NATURAL
  - \*C\* = POLYESTER (PBT), UL94V-0, COLOR: NATURAL(WHITE)
  - \*D\* = NYLON (PA66), UL94V-2, COLOR: BLACK
- PLATING CODES: A = ES-88-P921  
140 Min(3.5M) MIN 240 Min(6M) MAX OVERALL TIN HOT-DIPPED
- TERMINAL LENGTH CODES:
  - 1 = TERMINAL FOR .062/(1.57) THICK PC BOARD
- DIMENSIONS ARE FOR REFERENCE ONLY UNLESS INDICATED OTHERWISE
- HEADER ASSEMBLY HOUSING MATE WITH:  
PLUG HOUSINGS, .084/(2.13) DIA, SERIES 42021
- CONTACTS ARE ON .250/(6.35) GRID CENTERLINE SPACING
- REFER PACKAGING SPECIFICATION
  - PK-43255-001 FOR 2,3 & 4 CIRCUIT
  - PK-43255-003 FOR 6,9,12 & 15 CIRCUIT

#### LEGEND:

A-42002-\*-\*-\*-\*  
BASE NUMBER  
CIRCUIT SIZE  
MATERIAL CODE (SEE NOTE 1)  
PIN (1) OR SOCKET (2) TERMINALS  
TERMINAL PLATING CODE (SEE NOTE 2)  
TERMINAL LENGTH CODE (SEE NOTE 3)

RoHS COMPLIANT

| REMOVED SERIES 36757<br>EC NO: 2016-0114<br>DRWN:SS06<br>CHKD:<br>APPR:ISHMARG<br>2016/05/20<br>2016/08/30 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |        | DIMENSION STYLE |             | SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE PROJECTION                                                                                                                 |  |
|------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------|--------|-----------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                            |                                      | mm                                                   | INCH   | IN/MM           | IN/MM       | NTS                                                                                                                           | INCH         |                                                                                                                                        |  |
| D6                                                                                                         | DESCRIPTION                          | 4 PLACES                                             | ± .010 | ± .010          | DRAWN BY    | DATE                                                                                                                          | TITLE        | HEADER HOUSING ASSEMBLY<br>.084/(2.13) DIA. SERIES<br>WITHOUT POLARISING PEG<br><b>molex</b><br>SDA-42002-*****<br>SHEET NO.<br>1 OF 2 |  |
|                                                                                                            |                                      | 3 PLACES                                             | ± .010 | ± .010          | CHECKED BY  | DATE                                                                                                                          |              |                                                                                                                                        |  |
|                                                                                                            |                                      | 2 PLACES                                             | ± .010 | ± .010          | GJLOWE      | 2004/06/08                                                                                                                    |              |                                                                                                                                        |  |
|                                                                                                            |                                      | 1 PLACE                                              | ± .036 | ± .036          | APPROVED BY | DATE                                                                                                                          |              |                                                                                                                                        |  |
|                                                                                                            |                                      | 0 PLACE                                              | ± .036 | ± .036          | GJLOWE      | 2004/06/08                                                                                                                    |              |                                                                                                                                        |  |
| D6                                                                                                         | REV                                  | ANGULAR ±1/2°                                        |        | MATERIAL NO.    |             | DOCUMENT NO.                                                                                                                  |              |                                                                                                                                        |  |
|                                                                                                            |                                      | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        | SIZE A2         |             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                                                                                                                                        |  |

| PART NO.   | ENG. NO.       | CIRCUIT SIZE | MATERIAL<br>(SEE NOTE 1) | HOUSING<br>PART NO. | PLATING<br>(SEE NOTE 2) | TERMINAL<br>PART NO. | *B* DIM<br>±.015 |
|------------|----------------|--------------|--------------------------|---------------------|-------------------------|----------------------|------------------|
| 10-84-4020 | A-42002-2A1A1  | 2            | A                        | 42002-2A            | A                       | 42005-P921A          | .17/(4,3)        |
| 10-84-5020 | A-42002-2C1A1  |              | C                        | 42002-2C            | A                       | 42005-P921A          |                  |
| 10-84-4022 | A-42002-2A2A1  |              | A                        | 42002-2A            | A                       | 42006-P921A          |                  |
| 10-84-5021 | A-42002-2C2A1  |              | C                        | 42002-2C            | A                       | 42006-P921A          |                  |
| 367590101  | 36759-0101     |              | D                        | 366480042           | A                       | 42005-P921A          |                  |
| 367590141  | 36759-0141     |              | D                        | 366480042           | A                       | 42006-P921A          |                  |
|            |                |              |                          |                     |                         |                      |                  |
| 10-84-4030 | A-42002-3A1A1  | 3            | A                        | 42002-3A            | A                       | 42005-P921A          | .17/(4,3)        |
| 10-84-5030 | A-42002-3C1A1  |              | C                        | 42002-3C            | A                       | 42005-P921A          |                  |
| 10-84-4032 | A-42002-3A2A1  |              | A                        | 42002-3A            | A                       | 42006-P921A          |                  |
| 10-84-5031 | A-42002-3C2A1  |              | C                        | 42002-3C            | A                       | 42006-P921A          |                  |
| 367590102  | 36759-0102     |              | D                        | 366480043           | A                       | 42005-P921A          |                  |
| 367590142  | 36759-0142     |              | D                        | 366480043           | A                       | 42006-P921A          |                  |
|            |                |              |                          |                     |                         |                      |                  |
| 10-84-4040 | A-42002-4A1A1  | 4            | A                        | 42002-4A            | A                       | 42005-P921A          | .17/(4,3)        |
| 10-84-5040 | A-42002-4C1A1  |              | C                        | 42002-4C            | A                       | 42005-P921A          |                  |
| 10-84-4042 | A-42002-4A2A1  |              | A                        | 42002-4A            | A                       | 42006-P921A          |                  |
| 10-84-5041 | A-42002-4C2A1  |              | C                        | 42002-4C            | A                       | 42006-P921A          |                  |
| 367590103  | 36759-0103     |              | D                        | 366480044           | A                       | 42005-P921A          |                  |
| 367590143  | 36759-0143     |              | D                        | 366480044           | A                       | 42006-P921A          |                  |
|            |                |              |                          |                     |                         |                      |                  |
| 10-84-4060 | A-42002-6A1A1  | 6            | A                        | 42002-6A            | A                       | 42005-P921A          | .17/(4,3)        |
| 10-84-5060 | A-42002-6C1A1  |              | C                        | 42002-6C            | A                       | 42005-P921A          |                  |
| 10-84-4062 | A-42002-6A2A1  |              | A                        | 42002-6A            | A                       | 42006-P921A          |                  |
| 10-84-5061 | A-42002-6C2A1  |              | C                        | 42002-6C            | A                       | 42006-P921A          |                  |
| 367590104  | 36759-0104     |              | D                        | 366480045           | A                       | 42005-P921A          |                  |
| 367590144  | 36759-0144     |              | D                        | 366480045           | A                       | 42006-P921A          |                  |
|            |                |              |                          |                     |                         |                      |                  |
| 10-84-4090 | A-42002-9A1A1  | 9            | A                        | 42002-9A            | A                       | 42005-P921A          | .17/(4,3)        |
| 10-84-5090 | A-42002-9C1A1  |              | C                        | 42002-9C            | A                       | 42005-P921A          |                  |
| 10-84-4092 | A-42002-9A2A1  |              | A                        | 42002-9A            | A                       | 42006-P921A          |                  |
| 10-84-5091 | A-42002-9C2A1  |              | C                        | 42002-9C            | A                       | 42006-P921A          |                  |
| 367590105  | 36759-0105     |              | D                        | 366480046           | A                       | 42005-P921A          |                  |
| 367590145  | 36759-0145     |              | D                        | 366480046           | A                       | 42006-P921A          |                  |
|            |                |              |                          |                     |                         |                      |                  |
| 10-84-4120 | A-42002-12A1A1 | 12           | A                        | 42002-12A           | A                       | 42005-P921A          | .17/(4,3)        |
| 10-84-5120 | A-42002-12C1A1 |              | C                        | 42002-12C           | A                       | 42005-P921A          |                  |
| 10-84-4122 | A-42002-12A2A1 |              | A                        | 42002-12A           | A                       | 42006-P921A          |                  |
| 10-84-5121 | A-42002-12C2A1 |              | C                        | 42002-12C           | A                       | 42006-P921A          |                  |
| 367590106  | 36759-0106     |              | D                        | 366480047           | A                       | 42005-P921A          |                  |
| 367590146  | 36759-0146     |              | D                        | 366480047           | A                       | 42006-P921A          |                  |
|            |                |              |                          |                     |                         |                      |                  |
| 10-84-4150 | A-42002-15A1A1 | 15           | A                        | 42002-15A           | A                       | 42005-P921A          | .17/(4,3)        |
| 10-84-5150 | A-42002-15C1A1 |              | C                        | 42002-15C           | A                       | 42005-P921A          |                  |
| 10-84-4152 | A-42002-15A2A1 |              | A                        | 42002-15A           | A                       | 42006-P921A          |                  |
| 10-84-5151 | A-42002-15C2A1 |              | C                        | 42002-15C           | A                       | 42006-P921A          |                  |
| 367590107  | 36759-0107     |              | D                        | 366480048           | A                       | 42005-P921A          |                  |
| 367590147  | 36759-0147     |              | D                        | 366480048           | A                       | 42006-P921A          |                  |
|            |                |              |                          |                     |                         |                      |                  |

RoHS COMPLIANT

|                                                                                                                               |                                                 |                                      |                                                                                                                                                                                                                                                        |                          |  |                    |                                                                                       |                        |  |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|--------------------|---------------------------------------------------------------------------------------|------------------------|--|
| REMOVED SERIES 36757<br>EC NO: 12016-0114<br>DRWN:SS36<br>CHKD:<br>D6                                                         | 2016/05/20<br>2016/08/30<br>APPR: SHWARG<br>REV | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± 0.010<br>2 PLACES ± 0.25 ± 0.014<br>1 PLACE ± 0.36 ± ---<br>0 PLACE ± --- ± ---<br>ANGULAR ± 1/2°<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DIMENSION STYLE<br>IN/MM |  | SCALE<br>NTS       | DESIGN UNITS<br>INCH                                                                  | THIRD ANGLE PROJECTION |  |
|                                                                                                                               |                                                 |                                      |                                                                                                                                                                                                                                                        | DRAWN BY<br>SSUDHIR      |  | DATE<br>2004/06/08 | TITLE<br>HEADER HOUSING ASSEMBLY<br>.084/(2.13) DIA. SERIES<br>WITHOUT POLARISING PEG |                        |  |
|                                                                                                                               |                                                 |                                      |                                                                                                                                                                                                                                                        | CHECKED BY<br>GJLOWE     |  | DATE<br>2004/06/08 | molex                                                                                 |                        |  |
|                                                                                                                               |                                                 |                                      |                                                                                                                                                                                                                                                        | APPROVED BY<br>GJLOWE    |  | DATE<br>2004/06/08 | DOCUMENT NO.<br>SDA-42002-*****                                                       |                        |  |
|                                                                                                                               |                                                 |                                      |                                                                                                                                                                                                                                                        | MATERIAL NO.             |  | SEE CHART          |                                                                                       | SHEET NO.<br>2 OF 2    |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                 |                                      |                                                                                                                                                                                                                                                        |                          |  |                    |                                                                                       |                        |  |