

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0432550147](#)  
**Status:** **Active**  
**Description:** 6.35mm (.250) Pitch MLX Power Connector Receptacle, 2.13mm (.084") Contact Diameter, Vertical, with Plastic Polarizing Peg, 9 Circuits, Lead free

**Documents:**

[3D Model](#) [Product Specification PSX-42002-0001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family PCB Receptacles  
Series [43255](#)  
Application Wire-to-Board  
Comments High Vibration Application  
Product Name MLX™

**Physical**

Circuits (Loaded) 9  
Color - Resin Natural  
Durability (mating cycles max) 50  
Flammability 94V-2  
Glow-Wire Compliant No  
Lock to Mating Part Yes  
Material - Metal Phosphor Bronze  
Material - Plating Mating Tin  
Material - Plating Termination Tin  
Material - Resin Nylon  
Number of Rows 3  
Orientation Vertical  
PC Tail Length (in) 0.169 In  
PC Tail Length (mm) 4.30 mm  
PCB Locator Yes  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.062 In  
PCB Thickness Recommended (mm) 1.60 mm  
Packaging Type Bag  
Pitch - Mating Interface (in) 0.250 In  
Pitch - Mating Interface (mm) 6.35 mm  
Pitch - Term. Interface (in) 0.250 In  
Pitch - Term. Interface (mm) 6.35 mm  
Polarized to Mating Part Yes  
Polarized to PCB Yes  
Stackable No  
Surface Mount Compatible (SMC) No  
Temperature Range - Operating -55°C to +105°C  
Termination Interface: Style Through Hole

**Electrical**

Current - Maximum per Contact 9A  
Voltage - Maximum 600V

**Material Info**

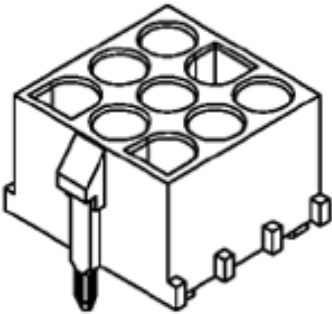


image - Reference only

Series

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Contains SVHC: No**  
**Halogen-Free  
Status**

**China RoHS**



**Not Reviewed**

**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**  
[43255Series](#)

**Mates With**  
[42021](#) , [42023](#)

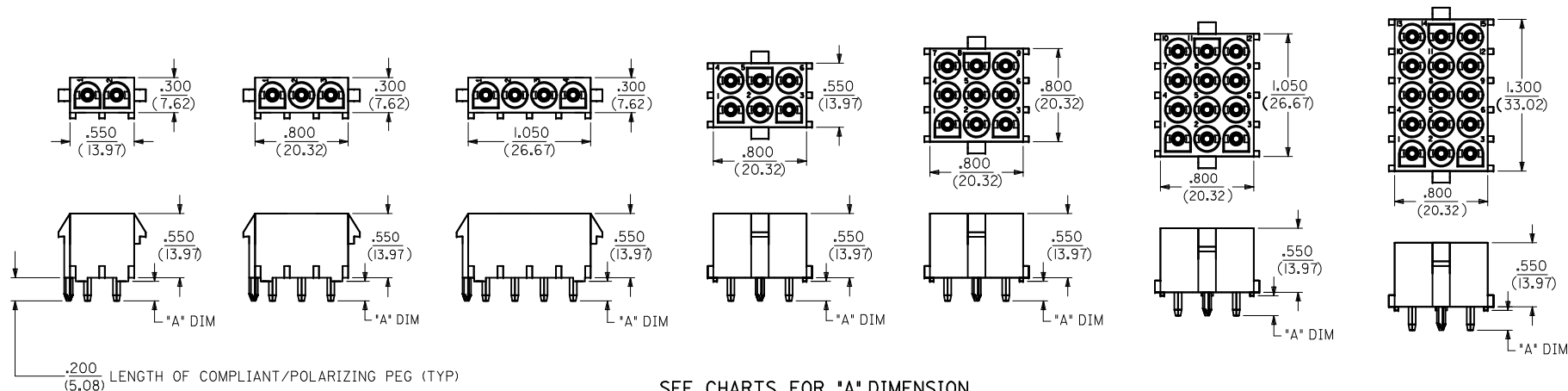
**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

PSX-42002-0001  
SDA-43255-00\*\*

This document was generated on 04/14/2010

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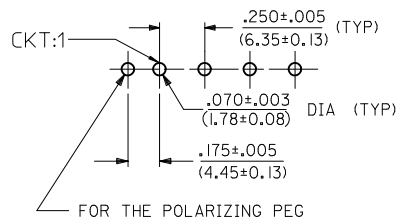


### SEE CHARTS FOR 'A' DIMENSION

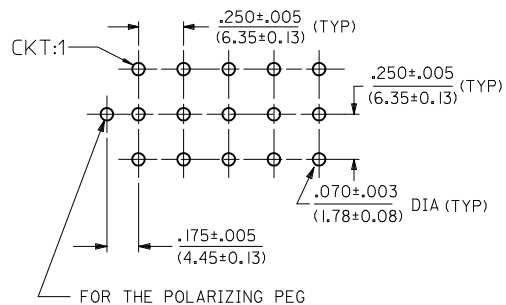
(THE 'A' DIMENSION APPLIES TO THE LENGTH OF THE TERMINAL ONLY)

### P.C. BOARD MOUNTING DIMENSIONS

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



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



#### NOTES:

##### 1) MATERIAL CODES:

- 'A'= UNREINFORCED POLYESTER, 94V-0. COLOR: WHITE
- 'C'= NYLON (PA66), UL94V-2. COLOR: NATURAL-TRANSLUCENT
- 'D'= NYLON, V-2, COLOUR: BLACK (ZYTEL 101F)
- 'E'= PA6, SCHULAMID V-2 GRADE, CTI=325V, GLOW WIRE COMPATIBLE COLOUR: NATURAL-WHITE

##### 2) PLATING CODES:

- 'A' = TIN 140 m.l.(3.50 MICRONS) TO 240 m.l (6.00 MICRONS)

##### 3) TERMINAL LENGTH CODES:

- I= TERMINAL FOR .062/(1.57) THICK PC BOARD

##### 4) DIMENSIONS ARE FOR REFERENCE ONLY UNLESS INDICATED OTHERWISE.

##### 5) HEADER ASSEMBLY HOUSINGS MATE WITH :

- PLUG HOUSINGS, .084/(2.13) DIA, SERIES: (4202I-\*\*)

##### 6) CONTACTS ARE ON .250/(6.35) GRID CENTERLINE SPACING.

##### 7) PACKAGING SPECIFICATION:

- 'A' - PK-43255-001, PK-43255-002, PK-43255-003
- 'B' - PK-36518-292

RoHS COMPLIANT

|                                                                                         |  |                                        |             |                                   |                                                            |        |                          |                       |                                                                                                                               |                                                                                                          |                                                                                                                 |
|-----------------------------------------------------------------------------------------|--|----------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|--------|--------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| ENTER DESCRIPTION<br>EC NO: 12010-0191<br>DRWN: HMR01<br>CHKD: KPRASAD<br>APPR: KPRASAD |  | 2009/12/31<br>2010/01/05<br>2010/01/13 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>IN/MM |                       | SCALE<br>1:1                                                                                                                  | DESIGN UNITS<br>INCH                                                                                     |  THIRD ANGLE<br>PROJECTION |
|                                                                                         |  |                                        |             |                                   |                                                            | mm     | INCH                     | DRAWN BY<br>SUDHIR    | DATE<br>2004/06/08                                                                                                            | TITLE<br>HEADER HOUSING ASSEMBLY<br>.084/(2.13) SERIES<br>COMPLIANT-POLARIZING PEG                       |                                                                                                                 |
| E2                                                                                      |  |                                        |             |                                   | 4 PLACES                                                   | ± ---  | ± ---                    | CHECKED BY<br>GJLOWE  | DATE<br>2004/06/08                                                                                                            |  MOLEX INCORPORATED |                                                                                                                 |
|                                                                                         |  |                                        |             |                                   | 3 PLACES                                                   | ± ---  | ± 0.005                  | CHECKED BY<br>GJLOWE  | DATE<br>2004/06/08                                                                                                            |                                                                                                          |                                                                                                                 |
|                                                                                         |  |                                        |             |                                   | 2 PLACES                                                   | ± 0.13 | ± 0.01                   | APPROVED BY<br>GJLOWE | DATE<br>2004/06/08                                                                                                            |                                                                                                          |                                                                                                                 |
|                                                                                         |  |                                        |             |                                   | 1 PLACE                                                    | ± 0.25 | ± ---                    |                       |                                                                                                                               |                                                                                                          |                                                                                                                 |
|                                                                                         |  |                                        |             |                                   | ANGULAR                                                    |        | ± 1/2°                   |                       |                                                                                                                               |                                                                                                          |                                                                                                                 |
|                                                                                         |  |                                        |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                          | SEE CHART             |                                                                                                                               | SDA-43255-00**                                                                                           |                                                                                                                 |
|                                                                                         |  |                                        |             |                                   |                                                            |        |                          | SIZE<br>A2            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                          |                                                                                                                 |

|   | 20         | 19           | 18                             | 17                                 | 16                               | 15                              | 14               | 13                        | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |   |
|---|------------|--------------|--------------------------------|------------------------------------|----------------------------------|---------------------------------|------------------|---------------------------|----|----|----|---|---|---|---|---|---|---|---|---|---|
|   | ITEM NO.   | CIRCUIT SIZE | MATERIAL COLOR<br>(SEE NOTE 1) | PIN (1) OR SOCKET (2)<br>TERMINALS | TERMINAL PLATING<br>(SEE NOTE 2) | TERMINAL LENGTH<br>(SEE NOTE 3) | "A" DIM<br>±.015 | PACKAGING<br>(SEE NOTE 7) |    |    |    |   |   |   |   |   |   |   |   |   |   |
| M | 43255-0003 | 2            | A                              | 2                                  | A                                | I                               | .17/(14,3)       | A                         |    |    |    |   |   |   |   |   |   |   |   |   | M |
|   | 43255-0059 |              | A                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0113 |              | C                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0115 |              | C                              | 2                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0021 |              | D                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0061 |              | D                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| L | 36757-0021 | 3            | E                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   | L |
|   | 36757-0061 |              | E                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0011 |              | A                              | 2                                  | A                                | I                               | .17/(14,3)       | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0067 |              | A                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0121 |              | C                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0123 |              | C                              | 2                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| K | 36759-0022 | 4            | D                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   | K |
|   | 36759-0062 |              | D                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36757-0022 |              | E                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36757-0062 |              | E                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0019 |              | A                              | 2                                  | A                                | I                               | .17/(14,3)       | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0075 |              | A                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| J | 43255-0129 | 6            | C                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   | J |
|   | 43255-0131 |              | C                              | 2                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0023 |              | D                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0063 |              | D                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36757-0023 |              | E                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36757-0063 |              | E                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| I | 43255-0027 | 9            | A                              | 2                                  | A                                | I                               | .17/(14,3)       | A                         |    |    |    |   |   |   |   |   |   |   |   |   | I |
|   | 43255-0083 |              | A                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0137 |              | C                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0139 |              | C                              | 2                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0024 |              | D                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0064 |              | D                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| H | 36757-0024 | 12           | E                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   | H |
|   | 36757-0064 |              | E                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0035 |              | A                              | 2                                  | A                                | I                               | .17/(14,3)       | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0091 |              | A                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0145 |              | C                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0147 |              | C                              | 2                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| G | 36759-0025 | 15           | D                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   | G |
|   | 36759-0065 |              | D                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36757-0025 |              | E                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36757-0065 |              | E                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0043 |              | A                              | 2                                  | A                                | I                               | .17/(14,3)       | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0099 |              | A                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| F | 43255-0153 | 2            | C                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   | F |
|   | 43255-0155 |              | C                              | 2                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0026 |              | D                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0066 |              | D                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36757-0026 |              | E                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36757-0066 |              | E                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| E | 43255-0051 | 3            | A                              | 2                                  | A                                | I                               | .17/(14,3)       | A                         |    |    |    |   |   |   |   |   |   |   |   |   | E |
|   | 43255-0107 |              | A                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0161 |              | C                              | 1                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 43255-0163 |              | C                              | 2                                  | A                                | I                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0027 |              | D                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36759-0067 |              | D                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
| D | 36757-0027 | 4            | E                              | 1                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   | D |
|   | 36757-0067 |              | E                              | 2                                  | A                                | 1                               |                  | A                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36766-0001 |              | C                              | 1                                  | A                                | 1                               | .17/(14,3)       | B                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36766-0002 |              | C                              | 1                                  | A                                | 1                               |                  | B                         |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 36766-0003 |              | C                              | 1                                  | A                                | 1                               |                  | B                         |    |    |    |   |   |   |   |   |   |   |   |   |   |

RoHS COMPLIANT

|                                                                                                                                             |                                      |                                                                                                                    |                       |                                 |                                |                                                                                     |                      |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|--------------------------------|-------------------------------------------------------------------------------------|----------------------|------------------------|
| <b>ENTER DESCRIPTION</b><br>E2<br>DEC NO: 12010-0191<br>2009/12/31<br>DRWN:HM01<br>CHYKOKPRASAD<br>APPR:KPRASAD<br>2010/01/05<br>2010/01/13 | <b>QUALITY SYMBOLS</b><br>▽=0<br>▽=0 | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>                                                                       |                       | <b>DIMENSION STYLE</b><br>IN/MM |                                | SCALE<br>INCH                                                                       | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION |
|                                                                                                                                             |                                      | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± 0.005<br>2 PLACES ± 0.13 ± 0.01<br>1 PLACE ± 0.25 ± ---<br>ANGULAR ± 1/2° | mm<br>INCH            | DRAWN BY<br>SUDHIR              | DATE<br>2004/06/08             | TITLE<br>HEADER HOUSING ASSEMBLY<br>.084/(12.13) SERIES<br>COMPLIANT-POLARIZING PEG |                      |                        |
|                                                                                                                                             |                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                         | SEE CHART             | CHECKED BY<br>GJLOWE            | DATE<br>2004/06/08             | MOLEX INCORPORATED                                                                  |                      |                        |
|                                                                                                                                             |                                      | MATERIAL NO.<br>SDA-43255-00**                                                                                     | APPROVED BY<br>GJLOWE | DATE<br>2004/06/08              | DOCUMENT NO.<br>SDA-43255-00** | SHEET NO.<br>2 OF 2                                                                 |                      |                        |