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**Part Number:** [0432550083](#)  
**Status:** **Active**  
**Overview:** [mlx](#)  
**Description:** 6.35mm (.250") Pitch MLX™ Power Connector Header, Vertical, with Plastic Polarizing Peg, 6 Circuits, Polyester 94V-0, Tin (Sn) Plating, White

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

**Agency Certification**

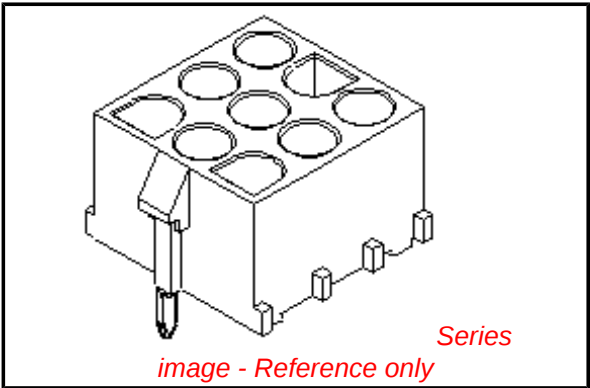
CSA LR19980  
UL E29179

**General**

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

**Physical**

Breakaway No  
Circuits (Loaded) 6  
Circuits (maximum) 6  
Color - Resin Natural  
Durability (mating cycles max) 50  
First Mate / Last Break No  
Flammability 94V-2  
Glow-Wire Compliant No  
Guide to Mating Part Yes  
Keying to Mating Part Yes  
Lock to Mating Part Yes  
Mated Height (in) 0.400 In  
Mated Height (mm) 10.16 mm  
Material - Metal Phosphor Bronze  
Material - Plating Mating Tin  
Material - Plating Termination Tin  
Material - Resin Polyester  
Number of Rows 2  
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  
Plating min: Mating (µin) 140  
Plating min: Mating (µm) 3.5  
Polarized to Mating Part Yes



**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**  
[43255Series](#)

**Mates With**  
[42021](#) MLX™ Power Crimp Housing Plug.  
[42023](#) MLX Crimp Terminal. [42024](#) MLX Crimp Terminal

|                                |                 |
|--------------------------------|-----------------|
| Polarized to PCB               | Yes             |
| Shrouded                       | Fully           |
| 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 |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 10                     |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Process Temperature max. C                     | 260                    |

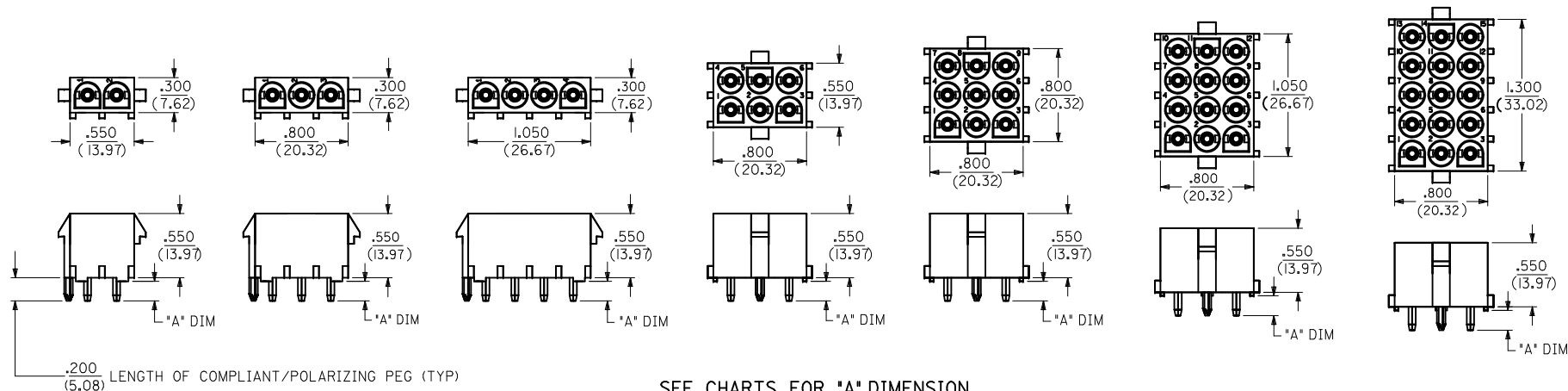
**Material Info**

**Reference - Drawing Numbers**

|                         |                |
|-------------------------|----------------|
| Packaging Specification | PK-43255-002   |
| Product Specification   | PSX-42002-0001 |
| Sales Drawing           | SDA-43255-00** |

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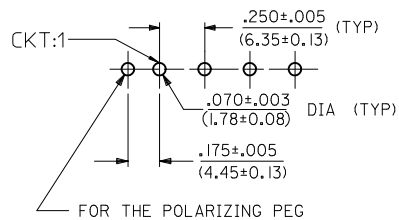


SEE CHARTS FOR 'A' DIMENSION

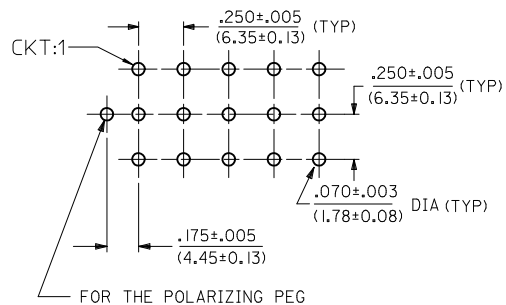
(THE 'A' DIMENSION APPLIES TO THE LENGTH OF THE TERMINAL ONLY)

## 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                                                                                      |  | REV                                    |             |                                   | 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                                                                 | SDA-43255-00**                                                                                                                |                           |  |
|                                                                                         |  |                                        |             |                                   | 1 PLACE                                                    | ± 0.25 | ± ---                    |                       |                                                                                    |                                                                                                                               |                           |  |
|                                                                                         |  |                                        |             |                                   | ANGULAR                                                    |        | ± 1/2°                   |                       |                                                                                    | 1 OF 2                                                                                                                        |                           |  |
|                                                                                         |  |                                        |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE CHART                |                       |                                                                                    |                                                                                                                               |                           |  |
|                                                                                         |  |                                        |             |                                   |                                                            |        |                          | MATERIAL NO.          |                                                                                    | DOCUMENT NO.                                                                                                                  |                           |  |
|                                                                                         |  |                                        |             |                                   |                                                            |        |                          | SIZE<br>A2            |                                                                                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           |  |



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