

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

**Part Number:** [0432550027](#)  
**Status:** **Active**  
**Description:** 6.35mm (.250) Pitch MLX Power Connector Receptacle, 2.13mm (.084") Contact Diameter, Vertical, with Plastic Polarizing Peg, 6 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**

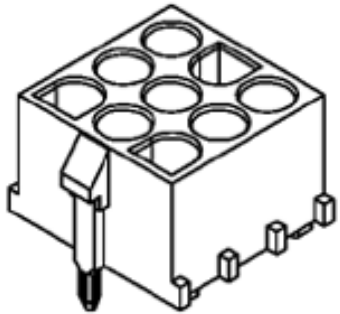
Circuits (Loaded) 6  
Color - Resin White  
Durability (mating cycles max) 50  
Flammability 94V-2  
Glow-Wire Compliant No  
Lock to Mating Part Yes  
Material - Metal Phosphor Bronze  
Material - Plating Mating Tin  
Material - Plating Termination Tin  
Material - Resin Polyester  
Number of Rows 2  
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  
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 13.5A  
Voltage - Maximum 600V

**Solder Process Data**

Duration at Max. Process Temperature (seconds) 10



Series

image - Reference only

**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](#)

Lead-free Process Capability  
Process Temperature max. C

Wave Capable (TH only)  
260

**Material Info**

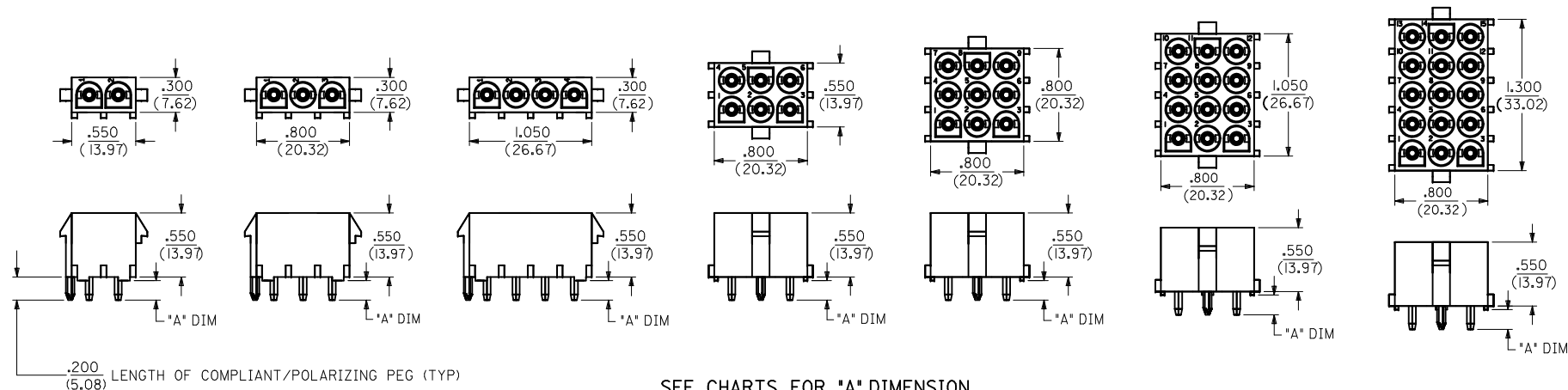
**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

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

This document was generated on 04/20/2010

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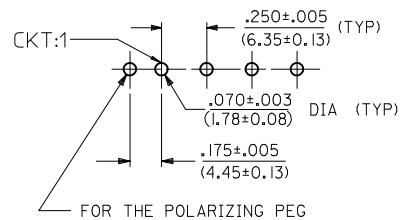


### SEE CHARTS FOR 'A' DIMENSION

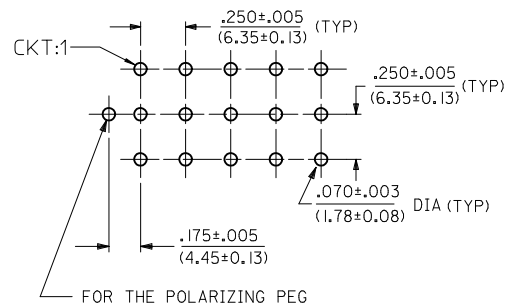
(THE 'A' DIMENSION APPLIES TO THE LENGTH OF THE TERMINAL ONLY)

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



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