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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

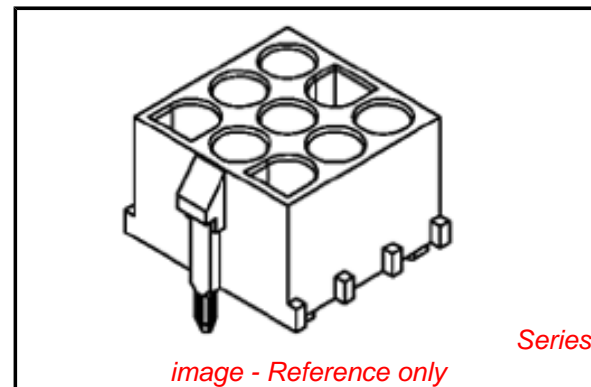
Circuits (Loaded) 6
 Color - Resin White
 Durability (mating cycles max) 50
 Flammability 94V-2
 Glow-Wire Compliant No
 Lock to Mating Part Yes
 Material - Metal Phosphor Bronze
 Material - Plating Mating Tin
 Material - Plating Termination Tin
 Material - Resin Polyester
 Number of Rows 2
 Orientation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



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
 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

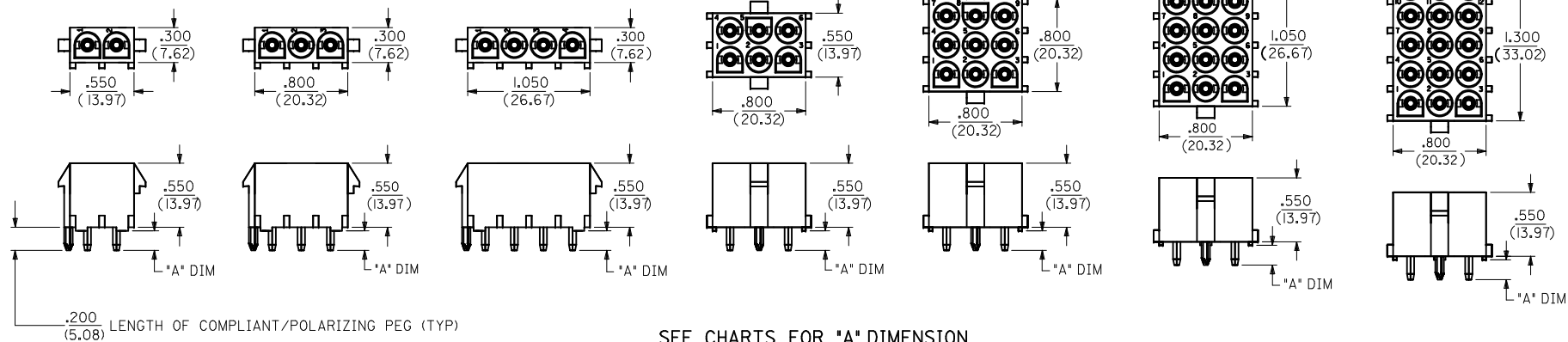
Reference - Drawing Numbers

Product Specification
Sales Drawing

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

This document was generated on 04/20/2010

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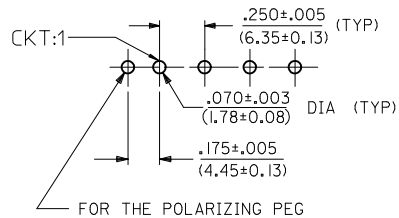


SEE CHARTS FOR "A" DIMENSION

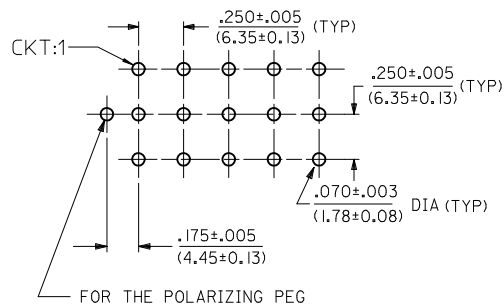
(THE "A" DIMENSION APPLIES TO THE LENGTH OF THE TERMINAL ONLY)

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.(3.50 MICRONS) TO 240 m.(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 EC NO: 2010-0191 DRAWN: HMR01 2009/12/31 CHKD: KPRASAD 2010/01/05 APPR: KPRASAD 2010/01/13 REV: E2 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE IN/MM | SCALE 1:1 | DESIGN UNITS INCH | THIRD ANGLE PROJECTION |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± 0.005 2 PLACES ± 0.13 ± 0.01 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2° | mm INCH DRAWN BY: SUDHIR DATE: 2004/06/08 CHECKED BY: GJLOWE DATE: 2004/06/08 APPROVED BY: GJLOWE DATE: 2004/06/08 MATERIAL NO. | TITLE HEADER HOUSING ASSEMBLY .084/(2.13) SERIES COMPLIANT-POLARIZING PEG | MOLEX INCORPORATED DOCUMENT NO. SDA-43255-00** | SHEET NO. 1 OF 2 | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SEE CHART | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |

| ITEM NO. | CIRCUIT SIZE | MATERIAL COLOR (SEE NOTE 1) | PIN (1) OR SOCKET (2) TERMINALS | TERMINAL PLATING (SEE NOTE 2) | TERMINAL LENGTH (SEE NOTE 3) | "A" DIM ±.015 | PACKAGING (SEE NOTE 7) |
|------------|--------------|-----------------------------|---------------------------------|-------------------------------|------------------------------|---------------|------------------------|
| 43255-0003 | 2 | A | 2 | A | 1 | .17/(4,3) | A |
| 43255-0059 | | C | 1 | A | 1 | | A |
| 43255-0113 | | C | 1 | A | 1 | | A |
| 43255-0115 | | C | 2 | A | 1 | | A |
| 36759-0021 | | D | 1 | A | 1 | | A |
| 36759-0061 | | D | 2 | A | 1 | | A |
| 36757-0021 | E | 1 | A | 1 | | A | |
| 36757-0061 | E | 2 | A | 1 | | A | |
| 43255-0011 | 3 | A | 2 | A | 1 | .17/(4,3) | A |
| 43255-0067 | | A | 1 | A | 1 | | A |
| 43255-0121 | | C | 1 | A | 1 | | A |
| 43255-0123 | | C | 2 | A | 1 | | A |
| 36759-0022 | | D | 1 | A | 1 | | A |
| 36759-0062 | | D | 2 | A | 1 | | A |
| 36757-0022 | E | 1 | A | 1 | | A | |
| 36757-0062 | E | 2 | A | 1 | | A | |
| 43255-0019 | 4 | A | 2 | A | 1 | .17/(4,3) | A |
| 43255-0075 | | A | 1 | A | 1 | | A |
| 43255-0129 | | C | 1 | A | 1 | | A |
| 43255-0131 | | C | 2 | A | 1 | | 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 | |
| 43255-0027 | 6 | A | 2 | A | 1 | .17/(4,3) | A |
| 43255-0083 | | A | 1 | A | 1 | | A |
| 43255-0137 | | C | 1 | A | 1 | | A |
| 43255-0139 | | C | 2 | A | 1 | | A |
| 36759-0024 | | D | 1 | A | 1 | | A |
| 36759-0064 | | D | 2 | A | 1 | | A |
| 36757-0024 | E | 1 | A | 1 | | A | |
| 36757-0064 | E | 2 | A | 1 | | A | |
| 43255-0035 | 9 | A | 2 | A | 1 | .17/(4,3) | A |
| 43255-0091 | | A | 1 | A | 1 | | A |
| 43255-0145 | | C | 1 | A | 1 | | A |
| 43255-0147 | | C | 2 | A | 1 | | A |
| 36759-0025 | | D | 1 | A | 1 | | A |
| 36759-0065 | | D | 2 | A | 1 | | A |
| 36757-0025 | E | 1 | A | 1 | | A | |
| 36757-0065 | E | 2 | A | 1 | | A | |
| 43255-0043 | 12 | A | 2 | A | 1 | .17/(4,3) | A |
| 43255-0099 | | A | 1 | A | 1 | | A |
| 43255-0153 | | C | 1 | A | 1 | | A |
| 43255-0155 | | C | 2 | A | 1 | | 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 | |
| 43255-0051 | 15 | A | 2 | A | 1 | .17/(4,3) | A |
| 43255-0107 | | A | 1 | A | 1 | | A |
| 43255-0161 | | C | 1 | A | 1 | | A |
| 43255-0163 | | C | 2 | A | 1 | | A |
| 36759-0027 | | D | 1 | A | 1 | | A |
| 36759-0067 | | D | 2 | A | 1 | | A |
| 36757-0027 | E | 1 | A | 1 | | A | |
| 36757-0067 | E | 2 | A | 1 | | A | |
| 36766-0001 | 2 | C | 1 | A | 1 | .17/(4,3) | B |
| 36766-0002 | 3 | C | 1 | A | 1 | | B |
| 36766-0003 | 4 | C | 1 | A | 1 | | B |

RoHS COMPLIANT

| | | | | | | | | | |
|---|--------------------------------------|--|------------|---|------------|---|----------------------|------------------------|--|
| ENTER DESCRIPTION EC NO: 12010-0191 2009/12/31 DRWN:HMRO1 CHKD:KPRASAD APPR:KPRASAD 2010/01/05 2010/01/13 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE IN/MM | | SCALE | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | |
| | | mm | INCH | DRAWN BY | DATE | TITLE HEADER HOUSING ASSEMBLY .084/(2.13) SERIES COMPLIANT-POLARIZING PEG | | | |
| | | 4 PLACES ±--- | ±--- | SUDHIR | 2004/06/08 | MOLEX INCORPORATED | | | |
| | | 3 PLACES ±--- | ±0.005 | CHECKED BY | DATE | DOCUMENT NO. SDA-43255-00** | | | |
| 2 PLACES ±0.13 | ±0.01 | GJLOWE | 2004/06/08 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SEE CHART | | SHEET NO. 2 OF 2 | |
| 1 PLACE ±0.25 | ±--- | APPROVED BY | DATE | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | |
| ANGULAR ±1/2° | | GJLOWE | 2004/06/08 | | | | | | |