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Part Number:

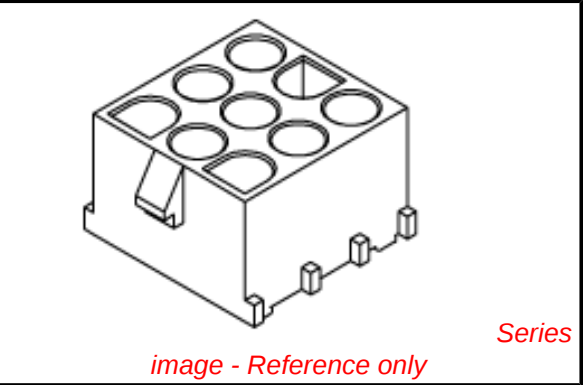
0010845031

Status:

Active

Description:

6.35mm (.250) Pitch MLX Power Connector Receptacle, 2.13mm (.084") Contact Diameter, Vertical, PCT Polyester, Tin (Sn), White, 3 Circuits



|               |                                           |
|---------------|-------------------------------------------|
| Documents:    |                                           |
| 3D Model      | Product Specification PS-42022-0001 (PDF) |
| Drawing (PDF) | RoHS Certificate of Compliance (PDF)      |

|                                                |                            |
|------------------------------------------------|----------------------------|
| Agency Certification                           |                            |
| CSA                                            | LR19980                    |
| UL                                             | E29179                     |
| General                                        |                            |
| Product Family                                 | PCB Receptacles            |
| Series                                         | 42002                      |
| Application                                    | Wire-to-Board              |
| Comments                                       | High Vibration Application |
| Product Name                                   | MLX™                       |
| Physical                                       |                            |
| Circuits (Loaded)                              | 3                          |
| Color - Resin                                  | Natural                    |
| Durability (mating cycles max)                 | 50                         |
| Flammability                                   | 94V-0                      |
| 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                                 | 1                          |
| Orientation                                    | Vertical                   |
| PC Tail Length (in)                            | 0.169 In                   |
| PC Tail Length (mm)                            | 4.30 mm                    |
| PCB Retention                                  | None                       |
| 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                    |
| Polarized to PCB                               | Yes                        |
| 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                         |
| Lead-free Process Capability                   | Wave Capable (TH only)     |
| Process Temperature max. C                     | 260                        |
| Material Info                                  |                            |
| Old Part Number                                | 4200203C2A1                |

EU RoHS

ELV and RoHS Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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

42002Series

Mates With

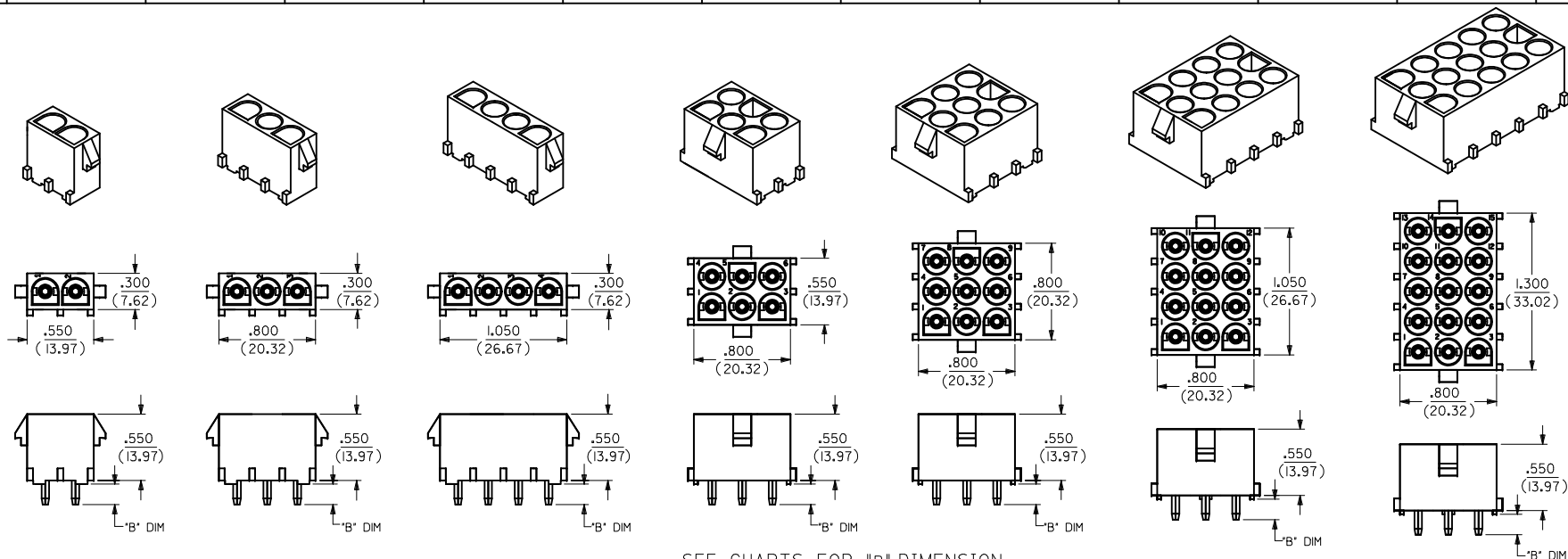
42021 , 42023

**Reference - Drawing Numbers**

|                         |                 |
|-------------------------|-----------------|
| Packaging Specification | PK-43255-001    |
| Product Specification   | PS-42022-0001   |
| Sales Drawing           | SDA-42002-***** |

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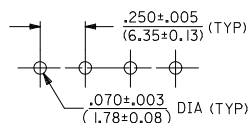
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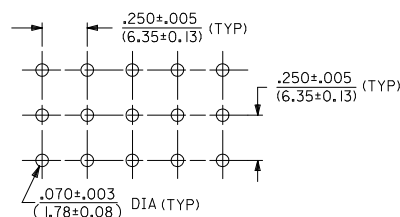
SEE CHARTS FOR "B" DIMENSION

## P.C. BOARD MOUNTING DIMENSIONS

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



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



## NOTES:

### 1) MATERIAL CODES:

\*A\*= NYLON 6/6, 94V-2, NATURAL

\*C\*= PLOYESTER, 94V-0, WHITE/NATURAL

\*D\*= NYLON V-2

COLOUR:BLACK(ZYTEL 101F)

\*E\*= NYLON V-2

COLOUR:NATURAL

GLOWWIRE COMPATIBLE WITH CTI OF 325V

### 2) PLATING CODES:

A = ES-88-P921

### 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: (42021-\*\*\*)

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

## 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)

| ENTER DESCRIPTION |            | QUALITY SYMBOLS |            | GENERAL TOLERANCES (UNLESS SPECIFIED) |            | DIMENSION STYLE IN/MM |            | SCALE NTS                                            | DESIGN UNITS INCH | THIRD ANGLE PROJECTION |                 |
|-------------------|------------|-----------------|------------|---------------------------------------|------------|-----------------------|------------|------------------------------------------------------|-------------------|------------------------|-----------------|
| EC NO: 12010-0067 | 2009/11/02 | DRWNS01         | 2010/01/27 | CHKO:GJLOWE                           | 2010/01/27 | APPR:KPRASAD          | 2010/01/27 | 4 PLACES ±---                                        | ±---              | DRAWN BY SSUDHIR       | DATE 2004/06/08 |
|                   |            |                 |            |                                       |            |                       |            | 3 PLACES ±---                                        | ±.005             | CHECKED BY GJLOWE      | DATE 2004/06/08 |
|                   |            |                 |            |                                       |            |                       |            | 2 PLACES ±0.13                                       | ±.010             | APPROVED BY GJLOWE     | DATE 2004/06/08 |
|                   |            |                 |            |                                       |            |                       |            | 1 PLACE ±0.25                                        | ±---              |                        |                 |
|                   |            |                 |            |                                       |            |                       |            | ANGULAR ±---                                         |                   |                        |                 |
|                   |            |                 |            |                                       |            |                       |            | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                   |                        |                 |
|                   |            |                 |            |                                       |            |                       |            | MATERIAL NO. SEE CHART                               |                   |                        |                 |
|                   |            |                 |            |                                       |            |                       |            | DOCUMENT NO. SDA-42002-*****                         |                   |                        |                 |
|                   |            |                 |            |                                       |            |                       |            | SHEET NO. 1 OF 2                                     |                   |                        |                 |



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