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**Part Number:** [10-84-4122](#)  
**Status:** **Active**  
**Overview:** MLX™ Power Connectors  
**Description:** 6.35mm Pitch MLX™ Power Connector, 2.13mm Contact Diameter, Vertical, PA Polyamide (Nylon) 6/6, Tin (Sn), White, 12 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 Headers  
 Series [42002](#)  
 Application Power, Wire-to-Board  
 Comments High Vibration Application  
 Overview [MLX™ Power Connectors](#)  
 Product Name MLX™  
 UPC 800753610552

**Physical**

Breakaway No  
 Circuits (Loaded) 12  
 Circuits (maximum) 12  
 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  
 Net Weight 6.680/g  
 Number of Rows 3  
 Orientation Vertical  
 PC Tail Length 4.30mm  
 PCB Retention None  
 PCB Thickness - Recommended 0.90mm  
 Packaging Type Carton  
 Pitch - Mating Interface 6.35mm  
 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, 20A  
 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



**EU RoHS**

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

**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](#)

**Material Info**

Old Part Number

A-42002-12A2A1

**Reference - Drawing Numbers**

Product Specification

PS-42022-0001

Sales Drawing

SDA-42002-\*\*\*\*\*

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