molex



**Part Number :** 432550011
**Product Description :** MLX Power Connector Header, 6.35mm Pitch, Socket Terminals, 2.13mm Contact Diameter, Vertical, with Plastic Polarizing Peg, 3 Circuits, Polyester 94V-0, Natural (White), Lead-Free
**Series Number :** 43255
**Status :** Active
**Product Category :** PCB Headers and Receptacles

## Documents and Resources

### Drawings

432550011_sd.pdf

PK-43255-001-001.pdf

PK-43255-003-001.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

### Specifications

PSX-42002-0001-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Not Relevant |
| China RoHS | per SJ/T 11365-2006 |
| EU ELV | Not Relevant |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21 |
| REACH SVHC | Not Contained per D(2025)7771-DC (04 Feb 2026) |
| EU RoHS | Compliant per EU 2015/863 |

Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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## Part Details

### General

| | |
|---|---|
| Status | Active |
| Category | PCB Headers and Receptacles |
| Series | 43255 |
| Description | MLX Power Connector Header, 6.35mm Pitch, Socket Terminals, 2.13mm Contact Diameter, Vertical, with Plastic Polarizing Peg, 3 Circuits, Polyester 94V-0, Natural (White), Lead-Free |
| Application | Power, Wire-to-Board |
| Comments | High Vibration Application; This Molex product is manufactured from material that has the following ratings, tested by independent agencies: a) A Glow Wire Ignition Temperature (GWIT) of at least 775 deg C per IEC 60695-2-13. b) A Glow Wire Flammability Index (GWFI) above 850 deg C per IEC 60695-2-12 and hence complies with the requirements set out in the International Standard IEC 60335-1 5th edition - household |

| | |
|---|---|
| | and similar electrical appliances - safety, section 30 Resistance to heat and fire. The customers using this product must determine its suitability for use in their particular application through testing or other acceptable means as described in end-product glow-wire flammability test standard IEC 60695-2-11 and any applicable product end-use standard(s). If it is determined during the customer's evaluation of suitability, that higher performance is required, please contact Molex for possible product options. |
| Component Type | PCB Header |
| Product Name | MLX |
| UPC | 800753183681 |

**Agency**

| | |
|---|---|
| CSA | LR19980 |
| UL | E29179 |

**Electrical**

| | |
|---|---|
| Current - Maximum per Contact | 12.0A |
| Voltage - Maximum | 600V |

**Physical**

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 3 |
| Circuits (maximum) | 3 |
| Color - Resin | Natural (White) |
| Durability (mating cycles max) | 50 |
| First Mate / Last Break | No |
| Glow-Wire Capable | No |
| Keying to Mating Part | No |

| | |
|---|---|
| Lock to Mating Part | Yes |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | Polyester |
| Net Weight | 2.302/g |
| Number of Rows | 1 |
| Orientation | Vertical |
| Packaging Type | Tray |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness - Recommended | 1.60mm |
| PC Tail Length | 4.30mm |
| Pitch - Mating Interface | 6.35mm |
| Pitch - Termination Interface | 6.35mm |
| Plating min - Mating | 3.500µm |
| Plating min - Termination | 3.500µm |
| Polarized to Mating Part | Yes |
| Polarized to PCB | Yes |
| Shrouded | Fully |
| Stackable | No |
| Temperature Range - Operating | -55° to +105°C |
| Termination Interface Style | Through Hole |

**Solder Process Data**

| | |
|---|---|
| Max-Duration | 10 |
| Lead-Free Process Capability | WAVE |
| Max-Temp | 260 |

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## Mates With / Use With

**Mates with Part(s)**

| Description | Part Number |
|---|---|
| 2.13mm Diameter MLX Power Crimp Housing Plugs | 42021 |