



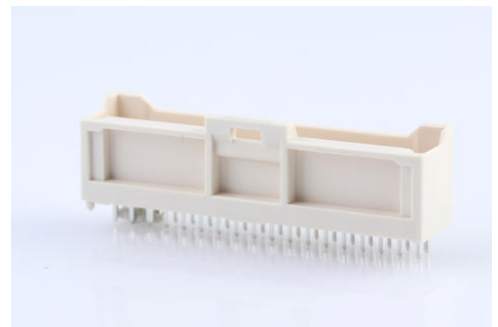
**Part Number :** [5016453620](#)

**Product Description :** 2.00mm Pitch, iGrid PCB Header, Dual Row, Vertical, Through Hole, Matte Tin (Sn) Plating, Positive Lock, 36 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator

**Series Number :** 501645

**Status :** Active

**Product Category :** PCB Headers and Receptacles



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## Documents and Resources

### Drawings

[5016453620 sd.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

[5016453620.dxf](#)

### Specifications

[5016460000-A00.pdf](#)

[5016460000-A01.pdf](#)

[SPK-501645-001-001.pdf](#)

[5016461001-PS-001.pdf](#)

[PS-501646-001-001.pdf](#)

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## Product Environment Compliance

### Compliance

|                    |                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44                                                                             |
| 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         | 501645                                                                                                                                                                       |
| Description    | 2.00mm Pitch, iGrid PCB Header, Dual Row, Vertical, Through Hole, Matte Tin (Sn) Plating, Positive Lock, 36 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator |
| Application    | Wire-to-Board                                                                                                                                                                |
| Component Type | PCB Header                                                                                                                                                                   |
| Product Name   | iGrid                                                                                                                                                                        |
| UPC            | 822350299473                                                                                                                                                                 |

**Agency**

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

## Electrical

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 2.0A             |
| Voltage - Maximum             | 250V AC (RMS)/DC |

## Physical

|                                |                |
|--------------------------------|----------------|
| Breakaway                      | No             |
| Circuits (Loaded)              | 36             |
| Circuits (maximum)             | 36             |
| Color - Resin                  | Natural        |
| Durability (mating cycles max) | 30             |
| First Mate / Last Break        | No             |
| Flammability                   | 94V-0          |
| Gender                         | Male           |
| Glow-Wire Capable              | No             |
| Keying to Mating Part          | Yes            |
| Lock to Mating Part            | Yes            |
| Material - Metal               | Brass          |
| Material - Plating Mating      | Tin            |
| Material - Plating Termination | Tin            |
| Material - Resin               | Polyamide (PA) |
| Mounting Style                 | Through Hole   |
| Net Weight                     | 2383.000/mg    |
| Number of Rows                 | 2              |
| Orientation                    | Vertical       |
| Packaging Type                 | Tray           |
| PCB Locator                    | Yes            |
| PCB Retention                  | No             |
| PCB Thickness - Recommended    | 1.20mm, 1.60mm |
| PC Tail Length                 | 3.20mm         |
| Pitch - Mating Interface       | 2.00mm         |
| Pitch - Termination Interface  | 2.00mm         |
| Plating min - Mating           | 1.000µm        |
| Plating min - Termination      | 1.000µm        |
| Polarized to Mating Part       | Yes            |
| Polarized to PCB               | Yes            |

|                               |                |
|-------------------------------|----------------|
| Stackable                     | No             |
| Temperature Range - Operating | -40° to +105°C |
| Termination Interface Style   | Through Hole   |

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## Mates With / Use With

### Mates with Part(s)

| Description                        | Part Number   |
|------------------------------------|---------------|
| iGrid Dual Row Receptacle Housings | <u>501646</u> |

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