

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

5016452420

Status:

Active

Overview:

iGrid Wire-to-Board Dual-Row System

Description:

2.00mm Pitch, iGrid PCB Header, Dual Row, Vertical, Through Hole, Tin (Sn) Plating, Positive Lock, 24 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator

|                                                               |                                                                  |
|---------------------------------------------------------------|------------------------------------------------------------------|
| Documents:                                                    |                                                                  |
| <a href="#">3D Model (PDF)</a>                                | <a href="#">Application Specification 5016460000-A00 (PDF)</a>   |
| <a href="#">3D Model</a>                                      | <a href="#">Application Specification 5016460000-A01 (PDF)</a>   |
| <a href="#">Drawing (PDF)</a>                                 | <a href="#">Packaging Specification SPK-501645-001-001 (PDF)</a> |
| <a href="#">Product Specification 5016461001-PS-001 (PDF)</a> | <a href="#">Datasheet (PDF)</a>                                  |
| <a href="#">Product Specification PS-501646-001-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>             |

Agency Certification

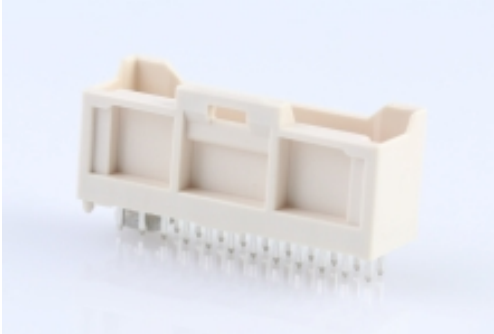
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

General

|                |                                     |
|----------------|-------------------------------------|
| Product Family | PCB Headers                         |
| Series         | 501645                              |
| Application    | Signal, Wire-to-Board               |
| Component Type | PCB Header                          |
| Overview       | iGrid Wire-to-Board Dual-Row System |
| Product Name   | iGrid                               |
| Taxonomy       | PCB Headers and Receptacles         |
| UPC            | 822350201605                        |

Physical

|                                |                |
|--------------------------------|----------------|
| Breakaway                      | No             |
| Circuits (Loaded)              | 24             |
| Circuits (maximum)             | 24             |
| Color - Resin                  | Natural        |
| Durability (mating cycles max) | 30             |
| First Mate / Last Break        | No             |
| Flammability                   | 94V-0          |
| 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               | Nylon          |
| Net Weight                     | 1447.600/mg    |
| Number of Rows                 | 2              |
| Orientation                    | Vertical       |
| PC Tail Length                 | 3.20mm         |
| PCB Locator                    | Yes            |
| PCB Retention                  | None           |
| PCB Thickness - Recommended    | 1.20mm, 1.60mm |
| Packaging Type                 | Tray           |
| Pitch - Mating Interface       | 2.00mm         |
| Polarized to Mating Part       | Yes            |
| Polarized to PCB               | Yes            |
| Stackable                      | No             |
| Surface Mount Compatible (SMC) | No             |
| Temperature Range - Operating  | -40° to +105°C |
| Termination Interface: Style   | Through Hole   |



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

China RoHS

REACH SVHC

Not Contained Per -  
D(2022)4187-DC (10  
June 2022)

Halogen-Free

Status

Not Low-Halogen

For more information, please visit [Contact US](#)

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

Search Parts in this Series

501645 Series

Mates With

iGrid Receptacle Housing 501646

**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

|                           |                                      |
|---------------------------|--------------------------------------|
| Application Specification | 5016460000-A00, 5016460000-A01       |
| Packaging Specification   | SPK-501645-001-001                   |
| Product Specification     | 5016461001-PS-001, PS-501646-001-001 |
| Sales Drawing             | 5016450000-SD-000                    |

This document was generated on 02/07/2023

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**