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**Part Number:** [5016452021](#)  
**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, 20 Circuits, Tray, 3.20mm PC Tail Length, Black, with PCB Locator

**Documents:**

|                                                               |                                                                  |
|---------------------------------------------------------------|------------------------------------------------------------------|
| <a href="#">3D Model</a>                                      | <a href="#">Application Specification 5016460000-A00 (PDF)</a>   |
| <a href="#">Drawing (PDF)</a>                                 | <a href="#">Application Specification 5016460000-A01 (PDF)</a>   |
| <a href="#">3D Model (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         | <a href="#">501645</a>                              |
| Application    | Signal, Wire-to-Board                               |
| Overview       | <a href="#">iGrid Wire-to-Board Dual-Row System</a> |
| Product Name   | iGrid                                               |
| UPC            | 822350299190                                        |

**Physical**

|                                |                |
|--------------------------------|----------------|
| Breakaway                      | No             |
| Circuits (Loaded)              | 20             |
| Circuits (maximum)             | 20             |
| Color - Resin                  | Black          |
| 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                     | 1238.000/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   |

**Electrical**



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**China RoHS**

**REACH SVHC**

Not Contained Per -  
D(2021)4569-DC (8  
July 2021)

**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](#)

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, SD-501645-001-001

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