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Part Number: [5016453220](#)
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, 32 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator

Documents:

| | |
|---|--|
| 3D Model (PDF) | Application Specification 5016460000-A00 (PDF) |
| 3D Model | Application Specification 5016460000-A01 (PDF) |
| Drawing (PDF) | Packaging Specification SPK-501645-001-001 (PDF) |
| Product Specification 5016461001-PS-001 (PDF) | Datasheet (PDF) |
| Product Specification PS-501646-001-001 (PDF) | RoHS Certificate of Compliance (PDF) |

Agency Certification

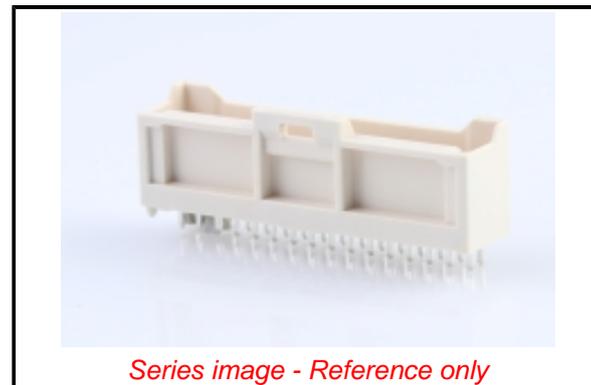
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|-----|---------|
| CSA | LR19980 |
| UL | E29179 |

General

| | |
|----------------|---|
| Product Family | PCB Headers |
| Series | 501645 |
| Application | Signal, Wire-to-Board |
| Overview | iGrid Wire-to-Board Dual-Row System |
| Product Name | iGrid |
| Taxonomy | PCB Headers and Receptacles |
| UPC | 822350201902 |

Physical

| | |
|--------------------------------|----------------|
| Breakaway | No |
| Circuits (Loaded) | 32 |
| Circuits (maximum) | 32 |
| 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 | 1866.800/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

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

ELV

RoHS Phthalates

Green Image

Not Relevant

Not Contained

Search Parts in this Series

[501645 Series](#)

Mates With

iGrid Receptacle Housing [501646](#)

Electrical

Current - Maximum per Contact
Voltage - Maximum

2.0A
250V AC (RMS)/DC

Material Info**Reference - Drawing Numbers**

Application Specification
Packaging Specification
Product Specification
Sales Drawing

5016460000-A00, 5016460000-A01
SPK-501645-001-001
5016461001-PS-001, PS-501646-001-001
5016450000-SD-000

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