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**Part Number:** **5016451020**  
**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, 10 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="#">Drawing (PDF)</a>	<a href="#">Application Specification 5016460000-A01 (PDF)</a>
<a href="#">3D Model</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**

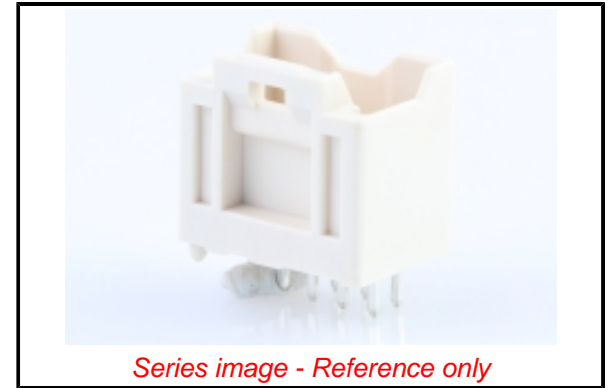
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">501645</a>
Application	Signal, Wire-to-Board
Component Type	PCB Header
Overview	<a href="#">iGrid Wire-to-Board Dual-Row System</a>
Product Name	iGrid
Taxonomy	PCB Headers and Receptacles
UPC	822350200301

**Physical**

Breakaway	No
Circuits (Loaded)	10
Circuits (maximum)	10
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	Gold
Material - Plating Termination	Tin
Material - Resin	Polyamide
Net Weight	714.000/mg
Number of Rows	2
Orientation	Right Angle
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)9120-DC (17  
Jan 2023)

**Halogen-Free**

**Status**

**Not Low-Halogen**

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

China ROHS

ELV

RoHS Phthalates

**China RoHS**

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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