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**Part Number:** **5016454020**  
**Status:** **Active**  
**Overview:** iGrid Wire-to-Board Dual-Row System  
**Description:** 2.00mm Pitch iGrid Wire-to-Board Header, Dual Row, Vertical, Tin (Sn) Plating, with PCB Locator, 40 Circuits

**Documents:**

<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 PS-501646-001-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Application Specification 5016460000-A00 (PDF)</a>	

**Agency Certification**

CSA	LR19980
UL	E29179

**General**

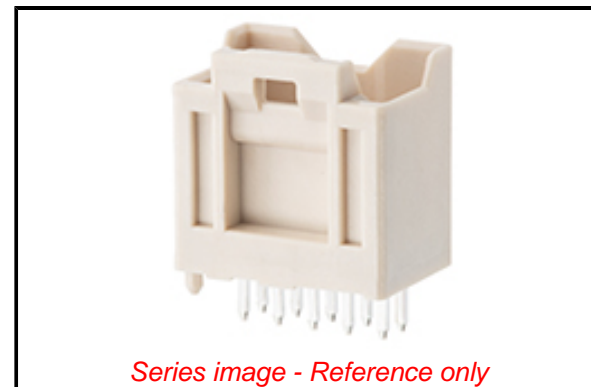
Product Family	PCB Headers
Series	501645
Application	Signal, Wire-to-Board
Overview	iGrid Wire-to-Board Dual-Row System
Product Name	iGrid
UPC	822350202107

**Physical**

Breakaway	No
Circuits (Loaded)	40
Circuits (maximum)	40
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	2286.000/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**

Current - Maximum per Contact	2.0A
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Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
-ED/88/2018 (15  
January 2019)

**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**

501646 Housing

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

PS-501646-001-001

Sales Drawing

SD-501645-001

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