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**Part Number:** [501645-1620](#)  
**Status:** **Active**  
**Overview:** iGrid™ Wire-to-Board Dual-Row System  
**Description:** 2.00mm Pitch iGrid™ Wire-to-Board Header, Dual Row, Vertical, with PCB Locator, 16 Circuits, Lead-Free

**Documents:**

- 3D Model  
Drawing (PDF)  
Product Specification PS-501646-001 (PDF)
- Packaging Specification SPK-501645-001 (PDF)  
RoHS Certificate of Compliance (PDF)

**Agency Certification**

UL E29179

**General**

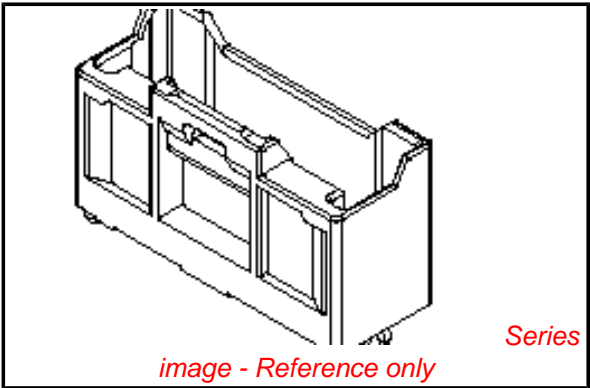
Product Family	PCB Headers
Series	<a href="#">501645</a>
Application	Signal, Wire-to-Board
MolexKits	Yes
Overview	<a href="#">iGrid™ Wire-to-Board Dual-Row System</a>
Product Name	iGrid™
UPC	822350201506

**Physical**

Breakaway	No
Circuits (Loaded)	16
Circuits (maximum)	16
Color - Resin	Natural
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	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	1028.400/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	-25°C to +85°C
Termination Interface: Style	Through Hole

**Electrical**

Current - Maximum per Contact	2A
Voltage - Maximum	250V AC (RMS)/DC



**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Low-Halogen Status**  
**Not Low-Halogen**

**China RoHS**



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environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**

[501645Series](#)

**Mates With**

501646 Housing, 501647 Crimp Terminal  
22-26 AWG, [501648](#) Crimp Terminal 26-28  
AWG

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification	SPK-501645-001
Product Specification	PS-501646-001, RPS-501646-001, RPS-501646-002, RPS-501646-003, RPS-501646-004, RPS-501646-005, RPS-501646-006, RPS-501646-007, RPS-501646-008, RPS-501646-010
Sales Drawing	SD-501645-001

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