



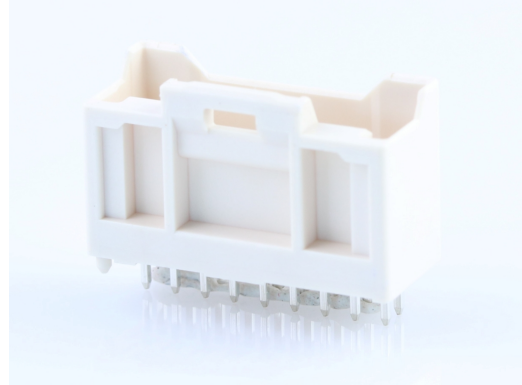
Part Number : [5016451820](#)

Product Description : 2.00mm Pitch, iGrid PCB Header, Dual Row, Vertical, Through Hole, Matte Tin (Sn) Plating, Positive Lock, 18 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator

Series Number : 501645

Status : Active

Product Category : PCB Headers and Receptacles



Documents & Resources

Drawings

[Drawing 5016451820_sd.pdf](#)

3D Models and Design Files

[2D Drawing DXF 5016451820.dxf](#)

[2D Drawing DXF \(PDF\) 5016451820.pdf](#)

[3D Model 5016451820_stp.zip](#)

Specifications

[Application Specification 5016460000-A00.pdf](#)


[Application Specification 5016460000-A01.pdf](#)

[Packaging Specification SPK-501645-001-001.pdf](#)

[Product Specification PS-501646-001-001.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)4144-DC (27 June 2024)
EU RoHS	Compliant per EU 2015/863

[Multiple Part Product Compliance Statements](#)

- Eu RoHS

- REACH SVHC

- Low-Halogen

Multiple Part Industry Compliance Documents

- IPC 1752A Class C

- IPC 1752A Class D

- Molex Product Compliance Declaration

- IEC-62474

- chemSHERPA (xml)

EU RoHS Certificate of Compliance

Part Details

General

Status	Active
Category	PCB Headers and Receptacles
Series	501645
Description	2.00mm Pitch, iGrid PCB Header, Dual Row, Vertical, Through Hole, Matte Tin (Sn) Plating, Positive Lock, 18 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator
Application	Signal, Wire-to-Board
Component Type	PCB Header
Product Family	iGrid Wire-to-Board Dual-Row System
Product Name	iGrid
UPC	822350299084

Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	2.0A
Voltage - Maximum	250V AC (RMS)/DC

Physical

Breakaway	No
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Circuits (Loaded)	18
Circuits (maximum)	18
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	Matte Tin
Material - Plating Termination	Matte Tin
Material - Resin	Polyamide
Net Weight	1327.000/mg
Number of Rows	2
Orientation	Vertical
Packaging Type	Tray
PC Tail Length	3.20mm
PCB Locator	Yes
PCB Retention	None
PCB Thickness - Recommended	1.20mm, 1.60mm
Pitch - Mating Interface	2.00mm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Stackable	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Through Hole

Mates With / Use With

Mates with Part(s)

Description	Part Number
iGrid Dual Row Receptacle Housings	<u>501646</u>

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