



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 5016461001-PS-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(2023)8585-DC (23 Jan 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

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### 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
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

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## Mates With / Use With

### Mates with Part(s)

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

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