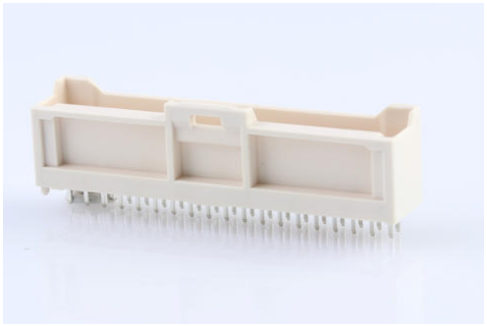
molex



Part Number : 5016453820
Product Description : 2.00mm Pitch, iGrid PCB Header, Dual Row, Vertical, Through Hole, Matte Tin (Sn) Plating, Positive Lock, 38 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator
Series Number : 501645
Status : Active
Product Category : PCB Headers and Receptacles

Documents and Resources

Drawings

5016453820_sd.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

5016453820.dxf

Specifications

5016460000-A00.pdf

5016460000-A01.pdf

SPK-501645-001-001.pdf

5016461001-PS-001.pdf

PS-501646-001-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21

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REACH SVHC	Not Contained per D(2025)7771-DC (04 Feb 2026)
EU RoHS	Compliant per EU 2015/863

Compliance Statements
- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents
- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest
- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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, 38 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator
Application	Wire-to-Board
Component Type	PCB Header
Product Name	iGrid
UPC	822350299572

Agency

CSA	LR19980
UL	E29179

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Electrical

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

Physical

Breakaway	No
Circuits (Loaded)	38
Circuits (maximum)	38
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Gender	Male
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	Polyamide (PA)
Mounting Style	Through Hole
Net Weight	2498.000/mg
Number of Rows	2
Orientation	Vertical
Packaging Type	Tray
PCB Locator	Yes
PCB Retention	No
PCB Thickness - Recommended	1.20mm, 1.60mm
PC Tail Length	3.20mm
Pitch - Mating Interface	2.00mm
Pitch - Termination Interface	2.00mm
Plating min - Mating	1.000µm
Plating min - Termination	1.000µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes

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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	501646

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