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Part Number:

5016453020

Status:

Active

Overview:

iGrid Wire-to-Board Dual-Row System

Description:

2.00mm Pitch, iGrid PCB Header, Dual Row, Vertical, Through Hole, Tin (Sn) Plating, Positive Lock, 30 Circuits, Tray, 3.20mm PC Tail Length, Natural, with PCB Locator

Documents:

- [Drawing \(PDF\)](#)

[3D Model \(PDF\)](#)

[3D Model](#)

[Product Specification 5016461001-PS-001 \(PDF\)](#)

[Application Specification 5016460000-A00 \(PDF\)](#)
- [Application Specification 5016460000-A01 \(PDF\)](#)

[Packaging Specification SPK-501645-001-001 \(PDF\)](#)

[Datasheet \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

PCB Headers

Series

501645

Application

Signal, Wire-to-Board

Component Type

PCB Header

Overview

iGrid Wire-to-Board Dual-Row System

Product Name

iGrid

Taxonomy

PCB Headers and Receptacles

UPC

822350299374

Physical

Breakaway

No

Circuits (Loaded)

30

Circuits (maximum)

30

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

1762.000/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)

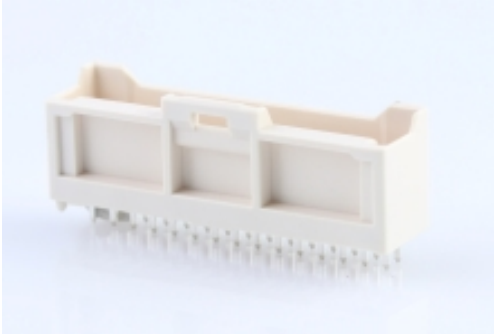
No

Temperature Range - Operating

-40° to +105°C

Termination Interface: Style

Through Hole



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

China RoHS

REACH SVHC

Not Contained Per -  
D(2022)4187-DC (10  
June 2022)

Halogen-Free

Status

Not Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

Green Image

ELV

Not Relevant

RoHS Phthalates

Not Contained

Search Parts in this Series

501645 Series

Mates With

iGrid Receptacle Housing 501646

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 2.0A             |
| 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     | 5016461001-PS-001              |
| Sales Drawing             | 5016450000-SD-000              |

This document was generated on 02/07/2023

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