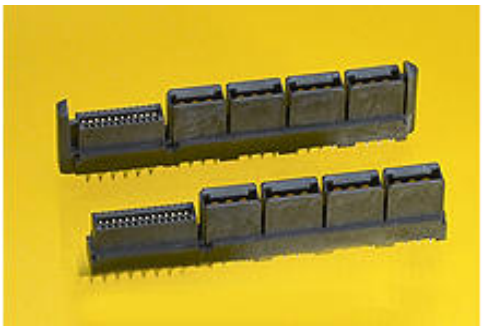
molex



Part Number : 461144281
Product Description : 1.27mm, 12.00mm Pitch, EXTreme LPHPower Receptacle Header, Vertical, 4 Power Contacts, 28 Signal Contacts, Select Gold (Au) Plating, without BMI Guides
Series Number : 46114
Status : Active
Product Category : Board-to-Board Connectors

Documents and Resources

Drawings

461144281_sd.pdf

PK-46114-003-001.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

SYM-46114-4281-001.zip

Specifications

AS-46114-001-001.pdf

PS-46114-001-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44; 34; 33
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2025)6375-DC (05 Nov 2025)

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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	Board-to-Board Connectors
Series	46114
Description	1.27mm, 12.00mm Pitch, EXTreme LPHPower Receptacle Header, Vertical, 4 Power Contacts, 28 Signal Contacts, Select Gold (Au) Plating, without BMI Guides
Application	Board-to-Board, Power
Comments	Press Fit Pin
Component Type	PCB Receptacle, Receptacle
Product Name	EXTreme LPHPower
UPC	756054923139

Agency

CSA	LR19880
UL	E29179

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Electrical

Current - Maximum per Contact	30.0A
Grounding to PCB	No
Voltage - Maximum	250V AC (RMS)/DC

Physical

Circuits (Loaded)	32
Circuits (maximum)	32
Color - Resin	Black
Durability (mating cycles max)	250
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	7.082/g
Number of Rows	2
Orientation	Vertical
Packaging Type	Tube
PCB Locator	No
PCB Retention	None
Pitch - Mating Interface	1.27mm, 12.00mm
Pitch - Termination Interface	1.27mm, 2.50mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
(p)ower-(s)ignal Configuration	4p - 28s
Stackable	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Through Hole - Compliant Pin

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Solder Process Data

Lead-Free Process Capability	N/A

Mates With / Use With

Mates with Part(s)

Description	Part Number
EXTreme LPHPower Right-Angle Plugs	45985

Application Tooling

Global

Description	Part Number
LPH Vertical Receptacle Power Terminal Removal Tool	621006300
Vertical Receptacle Press-In Tool	622018671

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