Part Number : 428206222
Product Description : Mini-Fit Sr. Right-Angle Header, 10.00mm Pitch, Single Row, 6 Circuits, 5.10mm Tail Length, for 2.36mm PCB, Tin (Sn) Plating, with Clip, USE NYE LUBE ON MATING SURFACES
Series Number : 42820
Status : Active
Product Category : PCB Headers and Receptacles



Documents and Resources

Drawings

428206222_sd.pdf

PK-42820-910-001.pdf

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

Specifications

AS-42815-001-001.pdf

PS-42815-001-001.pdf

TS-42815-001-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 33; 44
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
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	42820
Description	Mini-Fit Sr. Right-Angle Header, 10.00mm Pitch, Single Row, 6 Circuits, 5.10mm Tail Length, for 2.36mm PCB, Tin (Sn) Plating, with Clip, USE NYE LUBE ON MATING SURFACES
Application	Power, Wire-to-Board
Comments	WHEN USING OVERALL TIN PLATED TERMINALS: FOR APPLICATIONS INVOLVING VIBRATION AND/OR THERMAL CYCLING, MOLEX STRONGLY RECOMMENDS THE USE OF NYE LUBRICANT (NYOGEL 7600) ON THE MATING SURFACES OF THE TERMINAL
Component Type	PCB Header
Product Name	Mini-Fit Sr.
UPC	800754383127

Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	50.0A
Voltage - Maximum	600V AC (RMS)/DC

Physical

Breakaway	No
Circuits (Loaded)	6
Circuits (maximum)	6
Color - Resin	Black
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	No
Keying to Mating Part	No
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	18.574/g
Number of Rows	1
Orientation	Right Angle
Packaging Type	Tube
PCB Locator	No
PCB Retention	Yes
PCB Thickness - Recommended	2.36mm
PC Tail Length	5.10mm
Pitch - Mating Interface	10.00mm
Pitch - Termination Interface	10.00mm
Plating min - Mating	2.540µm

Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Shrouded
Stackable	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Through Hole

Solder Process Data

Max-Duration	30
Lead-Free Process Capability	SMC&WAVE
Max-Cycle	3
Max-Temp	235

Mates With / Use With

Mates with Part(s)

Description	Part Number
10.00mm Pitch Mini-Fit Sr. Single Row Receptacle Housings	42816