molex



Part Number : 2029883241
Product Description : Mini-Fit TPA2/Sigma Female Crimp Terminal, Copper Alloy, Post-Plated Tin (Sn), 20-18 AWG, 1.42-2.10mm Insulation Diameter, Reel
Series Number : 202988
Status : Active
Product Category : Crimp Terminals
Packaging Alternative : 2029883242 (Bag)

Documents and Resources

Drawings

2029883241_sd.pdf

2029880002-000.pdf

STEP AP242

SOLIDWORKS

Creo

Specifications

AS-172718-0000-001.pdf

2029880001-PS-000.pdf

2029880002-PS-000.pdf

1727180003-TS-000.pdf

2029880001-TS-000.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
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)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	Crimp Terminals
Series	202988
Description	Mini-Fit TPA2/Sigma Female Crimp Terminal, Copper Alloy, Post-Plated Tin (Sn), 20-18 AWG, 1.42-2.10mm Insulation Diameter, Reel
Application	Wire-to-Wire, Wire-to-Board
Comments	See product specification for current derating information.
Product Name	Mini-Fit Sigma,Mini-Fit TPA2
UPC	191128369824

Electrical

Current - Maximum per Contact	13.5A
Voltage - Maximum	600V AC/DC

Physical

Durability (mating cycles max)	30
Gender	Female

Material - Metal	Copper Alloy
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Net Weight	0.204/g
Packaging Type	Reel
Plating min - Mating	2.500µm
Plating min - Termination	2.500µm
Termination Interface Style	Crimp or Compression
Wire Insulation Diameter	1.42-2.10mm
Wire Size (AWG)	18, 20
Wire Size mm^2	N/A

Mates With / Use With

Use with Part(s)

Description	Part Number
Mini-Fit TPA2 and Mini-Fit Sigma Dual Row Receptacle Housings	172708
Mini-Fit TPA2 and Mini-Fit Sigma Single Row Receptacle Housings	200453

Application Tooling

Global

Description	Part Number
Hand Crimp Tool for Mini-Fit TPA2 Male and Female Crimp Terminals, 18 AWG, Large and Small Insulation Grips	2002180100
Hand Crimp Tool for Mini-Fit TPA2 Male and Female Crimp Terminals, 20 AWG, Large and Small Insulation Grips	2002182100
FineAdjust Applicator for Mini-Fit TPA2 Crimp Terminals, 0.50mm^2, 0.75mm^2 and 20-18 AWG wires	639036900