molex

Part Number : 643181018
Product Description : .635mm, 1.50mm, 2.80mm, Power CMC Connector, 28 Circuits, Left Wire Output, Gray Coding, Mat Sealed
Series Number : 64318
Status : Active
Product Category : Connector Housings

Documents & Resources

Drawings

643181018_sd.pdf

3D Models and Design Files

643181018_stp.zip

Specifications

AS-64318-002-001.pdf

AS-64318-002-CH-001.pdf

AS-64318-002-SP-001.pdf

AS-98420-001-001.pdf

AS-98420-001-CH-001.pdf

AS-98420-001-SP-001.pdf

AS-64318-002-FR-001.pdf

AS-98420-001-FR-001.pdf

PS-64321-001-001.pdf

PS-64321-001-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant
China RoHS	per SJ/T 11365-2006
EU ELV	Compliant per 2000/53/EC
Low-Halogen Status	Low-Halogen per IEC 61249-2-21

REACH SVHC	Not Contained per D(2024)6225-DC (07 Nov 2024)
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	Connector Housings
Series	64318
Description	.635mm, 1.50mm, 2.80mm, Power CMC Connector, 28 Circuits, Left Wire Output, Gray Coding, Mat Sealed
Application	Automotive, Power, Wire-to-Board
Comments	Current tested on a fully loaded connector, current for temperature increase of 40°C; Current max = 21.0A for 2.80mm Terminal (5.00mm^2 wire), 12.0A for 1.50mm Terminal (2.00mm^2 wire), 2.5A for 0.635mm Terminal (0.75mm^2 wire)
More Detailed Tech Information	Sealed, high-density, power, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses

Product Name	CMC
UPC	883906135119

Physical

Circuits Detail	5x 2.8mm, 5 x 1.5mm, 18 x 0.635mm terminals
Circuits (maximum)	28
Color - Resin	Gray
Gender	Receptacle
Glow-Wire Capable	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Resin	Polyester
Net Weight	35.290/g
Number of Rows	3
Packaging Type	Carton
Panel Mount	No
Pitch - Mating Interface	2.54mm, 3.50mm, 6.75mm
Polarized to Mating Part	Yes
Stackable	No
Temperature Range - Operating	-40° to +125°C

Solder Process Data

Lead-Free Process Capability	N/A

Mates With / Use With

Mates with Part(s)

Description	Part Number
CMC Right-Angle Headers	47745

Use with Part(s)

Description	Part Number
Wire Cap for Mat Sealed CMC Receptacle, 28 Circuits and 48	643201301

Circuits	
CMC 0.635mm Blind Cavity Plug	643251010
CMC 1.50mm Blind Cavity Plug	643251023
CMC 2.80mm Blind Cavity Plug	643251091
0.635mm CMC CP Female Terminals	64322
1.50mm CMC CP Female Terminals	64323
2.80mm CMC CP Female Terminals	64324

Application Tooling

Global

Description	Part Number
Continuity Test Pen Assembly	638121100
Unlocking Tool for CMC and CMX Receptacle Connector	638241200