

# Product Data Sheet

Colibri Plug 80, 5mm,  
Part No. 401-51601-51

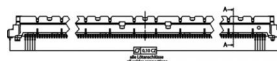
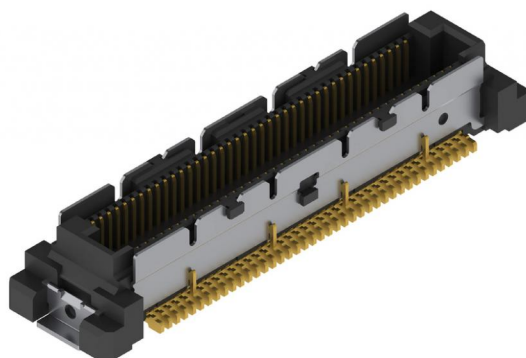


Illustration similar



Parallel



SMT



High Density



High Speed

- for 5 mm board-to-board distance
- 80 contacts
- termination technology SMT
- pitch 0.5 mm
- data transfer rate 10+ Gbit/s



» to product on [www.ept.de](http://www.ept.de)



» to product group Colibri - 0.5 mm SMT

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## Technical Specifications

### Basics

|                             |                 |
|-----------------------------|-----------------|
| No. of Contacts             | 80              |
| Termination Technology      | SMT             |
| Board-to-Board Distance     | 5 mm            |
| Operating Temperature Range | -40°C to +125°C |

### Material

|                               |                  |
|-------------------------------|------------------|
| Insulator Material            | LCP, UL 94 V-0   |
| CTI value<br><i>IEC 60112</i> | 175              |
| Contact Material              | Copper alloy     |
| Plating                       | Au over Ni       |
| Termination area              | Au flash over Ni |

### Mechanical

|                          |                  |
|--------------------------|------------------|
| Pitch                    | 0.5 mm           |
| Mating Force per Pin     | max. 0.9 N       |
| Separating Force per Pin | min. 0.1 N       |
| Durability               | 30 mating cycles |
| Coplanarity              | max. 0.1 mm      |

### Electrical

|                        |            |
|------------------------|------------|
| Operational Current    | max. 0.5 A |
| Operational Voltage    | 50 VAC     |
| Contact Resistance     | max. 75 mΩ |
| Clearance and Creepage | ≥ 0.15 mm  |
| Insulation Resistance  | > 100 MΩ   |
| Test Voltage           | 200 VAC    |
| Data Transfer Rate     | 10 Gbit/s  |

### Processing

|                       |                     |
|-----------------------|---------------------|
| Soldering Temperature | 260°C per J-STD-020 |
| MSL                   | 1                   |
| Assembly              | Pick and Place      |

### Approval / Compliance

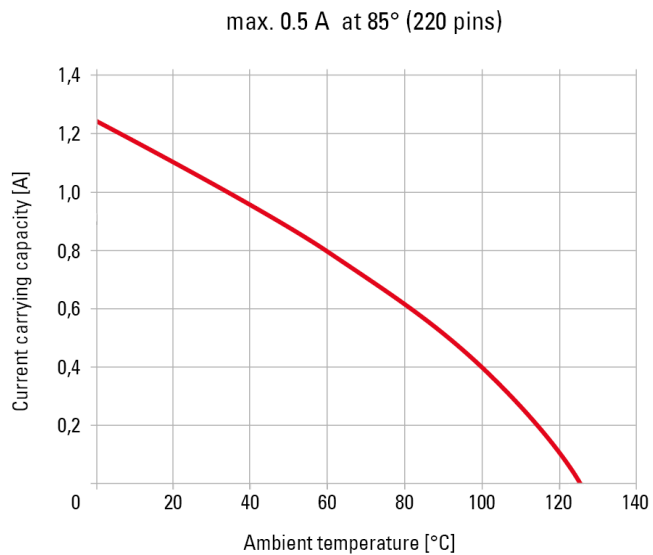
|             |                |
|-------------|----------------|
| UL file     | E130314        |
| Environment | RoHS compliant |

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## Derating Diagram



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## Modifications

Available on request

- different number of contacts
- other stacking heights
- alternative contact surfaces

## Drawings

Component data in 2D and 3D format you can download here:

[» PDF](#)

[» 3D IGES](#)

[» 3D STEP](#)

[» 3D PDF](#)