

Product Data Sheet

Colibri Plug 40, 8mm,
Part No. 401-55701-51

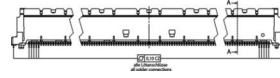


Illustration similar



Parallel



SMT



High Density



High Speed

- for 8 mm board-to-board distance
- overmating distance up to +0.6 mm
- 40 contacts
- termination technology SMT
- pitch 0.5 mm
- data transfer rate 10+ Gbps



» to product on www.ept.de



» to product group Colibri - 0.5 mm SMT

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Technical Specifications

Basics

| | |
|-----------------------------|-----------------|
| No. of Contacts | 40 |
| Termination Technology | SMT |
| Board-to-Board Distance | 8 mm |
| Operating Temperature Range | -40°C to +125°C |

Material

| | |
|-------------------------------|------------------|
| Insulator Material | LCP, UL 94 V-0 |
| CTI value <i>IEC 60112</i> | 125 |
| 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 |
| Overmating Distance | 0.6 mm |
| Center offset in the x direction | ± 0.4 mm |
| Center offset in the y direction | ± 0.19 mm |
| Axial offset when mated (x/y) | ± 0.1 mm (8mm stacking height) / ± 0.115 mm (5mm stacking height) |
| Angular offset in the x direction | ± 2° |

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 |

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Approval / Compliance

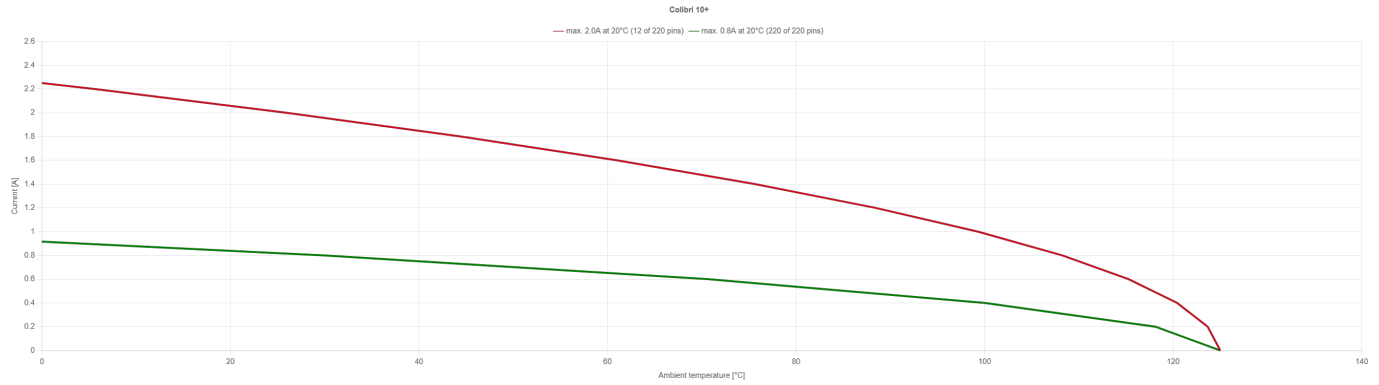
| | |
|-------------|----------------|
| UL file | E130314 |
| Environment | RoHS compliant |

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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](#)