

Product Data Sheet

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

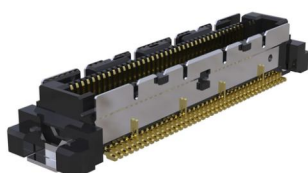
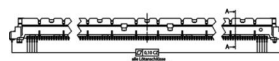


Illustration similar



Parallel



SMT



High Density



High Speed

- for 5 mm PCB spacing
- Overlap tolerance up to +0.6 mm
- Number of poles: 80
- SMT Connectivity
- Grid: 0.5 mm
- Data transfer rate: 10+ Gbps



» to product on www.ept.de



» to product group Colibri® - 0.5 mm SMT

Product Data Sheet

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



Technical Specifications

Basics

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

Material

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

Mechanical

Pitch	0.5 mm
Mating Force per Pin	max. 0.9 N
Separating Force per Pin	at least 0.1 N
Durability	30 insertion 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 (8 mm height) / ± 0.115 mm (5 mm height)
Angular offset in the x direction	± 2°

Electrical

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

Processing

Soldering Temperature	260°C according to J-STD-020
MSL	1
Assembly	Pick and Place

Product Data Sheet

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



Technical Specifications

Approval / Compliance

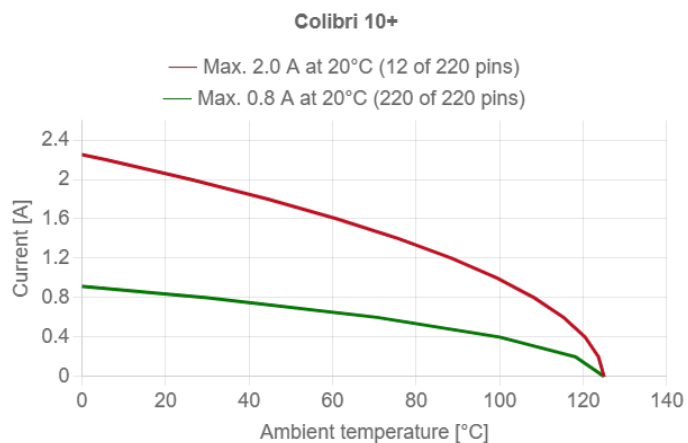
UL file	E130314
Environment	RoHS compliant

Product Data Sheet

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



Derating Diagram



Product Data Sheet

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



Modifications

Available on request

- other pole counts
- other stack heights
- alternative contact coatings

Drawings

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

[» PDF](#)

[» 3D IGES](#)

[» 3D STEP](#)

[» 3D PDF](#)